

DATA USABILITY SUMMARY REPORT

**SITE CHARACTERIZATION
TRIPLE CITIES METAL FINISHING SITE
WORK ASSIGNMENT NO. D007622-19
SITE ID NO. 808045
ELMIRA, NEW YORK**

Analyses Performed by:

**SPECTRUM ANALYTICAL, INC.
NORTH KINGSTOWN, RHODE ISLAND**

Prepared for:

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and the Development of Data Usability Summary Reports*, May 2010. Discussed in this DUSR are the analytical data for nineteen (19) soil samples, two (2) soil matrix spike/matrix spike duplicate (MS/MSD) pairs, three (3) soil field duplicates, and one (1) soil equipment rinsate blank; five (5) concrete chip (CC) samples, one (1) CC field duplicate, and one (1) CC MS/MSD pair; and three (3) groundwater samples, one (1) groundwater field duplicate, one (1) groundwater MS/MSD pair, and one trip blank collected on August 26, 2013 - September 5, 2013. The samples were collected in support of the site management task assigned to URS under NYSDEC Work Assignment Number D007622-19 for the Site Characterization of the Triple Cities Metal Finishing Site (Site ID Number 808045) located in Elmira, New York.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The samples were sent to Spectrum Analytical, Inc. located in North Kingstown, Rhode Island, which is a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory. The soil, concrete chip, and groundwater samples were analyzed for the following parameters (not all samples were analyzed for all parameters):

<u>Parameter</u>	<u>Method Number</u>
Target Compound List (TCL) Volatile Organic Compounds (VOCs) plus Tentatively Identified Compounds (TICs)	SW8260C
TCL Semivolatile Organic Compounds (SVOCs) plus TICs	SW8270D
TCL Pesticides	SW8081B
TCL Polychlorinated Biphenyls (PCBs)	SW8082A
Target Analyte List (TAL) Metals	SW6010C/7470A/ 7471A
Total Cyanide	9012B
Hexavalent Chromium	SW7196A

A limited data validation was performed on the samples for VOCs, metals, cyanide, and hexavalent chromium following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP HW-24, Revision 2, August 2008;
- *ICP-AES Data Validation*, SOP HW-2a, Rev. 15, December 2012; and
- *Mercury and Cyanide Data Validation*, SOP HW-2c, Rev. 15, December 2012.

The remaining parameters received a cursory review. Note, solid and aqueous investigation derived waste (IDW) samples (IDW-GW and IDW-SO) were also collected for disposal purposes only during this site characterization. The Form Is for these samples have been included in Attachment A, however the data for these samples were not validated and are not discussed in the DUSR.

The limited data review included a review of completeness of all required deliverables; holding times; QC results (blanks, instrument tunes, calibration standards, MS/MSD recoveries, duplicate precision, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data during the limited data validation include 'R' (rejected), 'NJ' (tentatively identified, approximate concentration), 'J' (estimated concentration), 'J-' (estimated concentration, biased low), 'U' (not detected), and 'UJ' (estimated quantitation limit). Definitions of USEPA data qualifiers are presented at the end of this text. A summary of data qualifications is presented on Table 1. The validated analytical results are presented on Table 2 (soil), Table 3 (concrete chip), Table 4 (groundwater), and Table 5 (field QC). Validated Form Is have been presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), and were analyzed within the required holding times with the following exception.

The soil equipment blank (EB) did not have enough volume supplied to analyze for all the requested analytes. URS instructed the laboratory to only analyze the EB for PCBs.

Soil sample FD-082913-MW (field duplicate of MW-03) had limited volume. Due to the lack of volume available, the field duplicate was not analyzed for SVOCs, Pesticides, and PCBs. The parent sample was analyzed for all parameters.

V. NON-CONFORMANCES

Instrument Calibration

Average relative response factor (RRF) in the initial calibrations (ICAL) for VOC 1,4-dioxane was less than 0.05. The non-detect results were qualified 'R' for all samples.

The percent differences (%D) between the soil/CC initial calibration (ICAL) average relative response factors (RRF) and the RRFs in the continuing calibration (CCAL) standards were greater than 20% for VOC 2-hexanone. The results for 2-hexanone were qualified 'UJ' in the samples, as listed in Table 1.

The %D between the groundwater ICAL average RRF and the RRFs in the CCAL standards were greater than 20% for one or more of the following VOCs: 2-butanone, tetrachloroethene, t-butylbenzene, and 1,1,2-trichloro-1,2,2-trifluoroethane. The results for these compounds were qualified 'J' or 'UJ' in the samples, as listed in Table 1.

The %D between the soil/CC ICAL average RRF and the RRFs in the CCAL standards were greater than 20% for one or more of the following SVOCs: 2-nitrophenol,

hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, diethylphthalate, and pentachlorophenol. The results for these compounds were qualified 'UJ' in the samples, as listed in Table 1.

The %D in the PCB CCALs before and after the samples on the primary and/or confirmation columns exceeded the QC limit of 15% for Aroclors 1016, 1260, and/or 1254. The results for these Aroclors in the samples listed on Table 1 have been qualified 'J' or 'UJ'.

Blanks

Di-n-butylphthalate was detected in the soil SVOC laboratory method blank at a concentration less than the Contract Required Quantitation Limit (CRQL). Those samples that had concentrations of these compounds less than the CRQL were qualified 'U' at the CRQL. The associated samples have been listed on Table 1.

Barium (Ba), nickel (Ni), and vanadium (V) were detected in the groundwater continuing calibration blanks (CCBs) at concentrations less than the CRQL. Those samples that had concentrations of these metals less than the CRQL were qualified 'U' at the CRQL. The associated samples have been listed on Table 1.

Antimony (Sb), beryllium (Be), silver (Ag), and sodium (Na) were detected in the soil method blanks and/or CCBs at concentrations less than the CRQL. Those samples that had concentrations of these metals less than the CRQL were qualified 'U' at the CRQL. The associated samples have been listed on Table 1.

Matrix Spikes/Matrix Duplicates (MS/MD)

The metals MS performed on CC sample CC-01 was below QC limits for Sb, arsenic (As), chromium (Cr), and lead (Pb). The results for these metals in the associated CC samples listed on Table 1 have been qualified 'J'.

The metals MS performed on soil sample MW-02 was below the QC limit for Sb. The Sb results for the associated soil samples listed on Table 1 have been qualified 'J' or 'UJ'.

The metals MS performed on soil sample SS-03 was below the QC limit for As and Cr and greater than the QC limit for zinc (Zn). The post-digestion spike exhibited a low recovery for

Cr. The detected As, Cr, and Zn results for the associated soil samples listed on Table 1 have been qualified 'J' or 'J-'.

The MS/MSD performed on soil sample SS-03 exhibited extremely poor recoveries (i.e., <30%) for hexavalent chromium. The post-digestion spikes performed on this sample also exhibited low recoveries (i.e., < 75%). The non-detect results for hexavalent chromium for the associated soil samples listed on Table 1 have been qualified 'R'.

The metals MD performed on CC sample CC-01 had a relative percent difference (RPD) that was greater than the QC limit (i.e., > 35%) for Zn. The result for Zn in the associated CC samples listed on Table 1 have been qualified 'J'.

The metals MD performed on soil sample MW-02 had an RPD that was greater than the QC limit (i.e., > 35%) for cadmium (Cd), Cr, Pb, potassium (K), and Zn. The results for these metals in the associated soil samples listed on Table 1 have been qualified 'J'.

The metals MD performed on soil sample SS-03 was above the RPD QC limit of 35% for As; and the absolute %D was >QL (for sample and/or duplicate values < 5x QL) for Sb. The Sb and As results in the associated soil samples listed on Table 1 have been qualified 'J' or 'UJ'. The RPD was greater than the QC limit of 120% for Pb. The Pb results for all associated samples listed on Table 1 have been qualified 'R'.

Serial Dilutions

The serial dilution performed on sample CC-01 exceeded the QC limit of 15% for Cr, cobalt (Co), iron (Fe), Pb, magnesium (Mg), manganese (Mn), nickel (Ni), and Zn. The detected results for these metals in the associated CC samples listed on Table 1 have been qualified 'J'.

VI. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements. Results reported below the quantitation limit, but greater than the method detection limit (MDL), are qualified 'J' by the laboratory.

A field duplicate (FD) sample was collected at groundwater location MW-02 and soil location SS-02. The results were in good agreement.

A FD sample was collected at CC location CC-04. The results were in good agreement with the following exceptions. The RPD between the two values exceeded the QC limit of 50% for Pb, Zn, cyanide, and hexavalent chromium. The results for Pb and Zn were previously qualified 'J' due to other QC outliers. The cyanide and hexavalent chromium results for these two samples have been qualified 'J'.

A FD sample was collected at soil sample location GS-08. The results were in good agreement with the following exceptions. The RPD between the two values exceeded the QC limit of 50% for Ba, Pb, and mercury (Hg). The results for Pb were previously qualified 'J' due to other QC outliers. The Ba and Hg results for these two samples have been qualified 'J'.

A FD sample was collected at soil sample location MW-03. The results were in good agreement with the following exception. The RPD between the two values exceeded the QC limit of 50% for Ca. The Ca results for these two samples have been qualified 'J'.

The pesticide and PCB dual column %D was greater than the QC limit of 25% for several samples. Those samples were qualified 'R', 'J', or 'NJ' depending on the severity of the exceedance as listed on Table 1.

Samples GS-08 and FD-082913-GS (GS-08) required secondary dilutions for 1,2-dichloroethene (cis) and trichloroethene. The results being reported from the secondary dilution have been qualified 'D' on Table 2.

VII. SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'UJ' (estimated quantitation limit), 'J' (estimated concentration), 'J-' (estimated concentration, biased low), or 'U' (non-detect) during the data review are considered conditionally usable. Those results qualified 'R' are not usable. All other sample results are usable as reported. URS does not recommend the re-collection of any samples at this time.

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Date: 10/29/13

Reviewed By: Peter R. Fairbanks, Senior Chemist

Date: 10/29/13

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U** – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- (J-)** – The result is an estimated quantity. The associated numerical value is biased low.
- 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.
- NJ** – The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
- R** – The sample results are rejected 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.
- D** – The sample results are reported from a secondary dilution.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
TRIPLE CITIES METAL FINISHING SITE

SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
SOIL AND CONCRETE CHIP SAMPLES			
All samples	VOC	RRF in the ICAL < 0.05 for 1, 4-dioxane.	Qualify non-detect results 'R'.
MW-01, MW-02, SS-01, SS-02, FD-082613 (SS-02), SS-03, SS-04, SS-05, SS-06, SS-07, and SS-08	VOC	%D between the ICAL average RRF and the CCAL RRF >20% for 2-hexanone	Qualify non-detect results 'UJ'.
GS-07	SVOCs	Di-n-butylphthalate detected in the laboratory method blank and sample below CRQL.	Qualify detected results 'U' at CRQL.
GS-07	SVOCs	%D between the ICAL average RRF and the CCAL RRF >20% for 2-nitrophenol, hexachlorocyclopentadiene, 2, 4-dinitrophenol, and pentachlorophenol.	Qualify non-detect results 'UJ'.
GS-01, GS-02, GS-03, GS-04, GS-05, GS-06, GS-08, FD-082913-GS (GS-08), and MW-03	SVOCs	%D between the ICAL average RRF and the CCAL RRF >20% for 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and pentachlorophenol.	Qualify non-detect results 'UJ'.
MW-01, MW-02, SS-01, SS-02, SS-03, SS-04, SS-05, SS-06, SS-07, SS-08, and FD-082613 (SS-02)	SVOCs	%D between the ICAL average RRF and the CCAL RRF >20% for diethylphthalate.	Qualify non-detect results 'UJ'.
GS-05	Pesticides	Dual-column %D > QC limit (25%) for 4,4'-DDT.	Qualify detected results 'J'.
SS-02 and FD-082613 (SS-02)	Pesticides	Dual-column %D > QC limit (201%) for alpha-chlordane.	Qualify detected results 'R'.
SS-05	Pesticides	Dual-column %D > QC limit (25%) for heptachlor epoxide.	Qualify detected results 'J'.
SS-06	Pesticides	Dual-column %D > QC limit (25%) for endosulfan I and endrin aldehyde.	Qualify detected results 'J'.
SS-06	Pesticides	Dual-column %D between (71-100%) for endrin ketone.	Qualify detected results 'NJ'.
SS-06	Pesticides	Dual-column %D between (101-200%) with interference for 4,4'-DDT.	Qualify detected results 'NJ'.
SS-06	Pesticides	Dual-column %D > QC limit (201%) for dieldrin.	Qualify detected results 'R'.
FD-082513 (SS-02)	Pesticides	Dual-column %D > QC limit (25%) for 4,4'-DDT and gamma-chlordane.	Qualify detected results 'J'.
SS-08	Pesticides	Dual-column %D between (71-100%) for 4,4'-DDE and endosulfan sulfate	Qualify detected results 'NJ'.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
TRIPLE CITIES METAL FINISHING SITE

SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
SS-08	Pesticides	Dual-column %D between (101-200%) with interference for dieldrin.	Qualify detected results 'NJ'.
SS-08	Pesticides	Dual-column %D > QC limit (201%) for 4,4'-DDT.	Qualify detected results 'R'.
MW-01, MW-02, SS-01, SS-02, FD-082613 (SS-02), SS-03, SS-04, SS-05, SS-06, SS-07, SS-08, and EB-082613	PCBs	CCAL %Ds > 15% for Aroclors 1016, 1260, and/or 1254.	Qualify non-detect results 'UJ' and detected results 'J'.
SS-01	PCBs	Dual-column %D > QC limit (25%) for Aroclor 1260.	Qualify detected results 'J'.
SS-08	PCBs	Dual-column %D > QC limit (25%) for Aroclor 1254.	Qualify detected results 'J'.
CC-01, CC-02, CC-03, CC-04, FD-082913-CC (CC-04), and CC-05	Metals	MS %R < QC limit for Sb, As, Cr, and Pb.	Qualify detected results 'J'.
MW-01 and MW-02	Metals	MS %R < QC limit for Sb.	Qualify non-detect results 'UJ' and detected results 'J'.
SS-01, SS-02, FD-082613 (SS-02), SS-03, SS-04, SS-05, SS-06, SS-07, and SS-08	Metals	MS %R < QC limit for As and Cr; and > QC limit for Zn. Post-digestion spike %R < QC limit for Cr.	Qualify detected results 'J' or 'J-'.
SS-01, SS-02, FD-082613 (SS-02), SS-03, SS-04, SS-05, SS-06, SS-07, and SS-08	Miscellaneous	MS/MSD %R extremely poor (0%) for hexavalent chromium. Both post-digestion spikes also low (<75%).	Qualify non-detect results 'R'.
CC-01, CC-02, CC-03, CC-04, FD-082913-CC (CC-04), and CC-05	Metals	MD %RPD > QC limit (35%) for Zn.	Qualify detected results 'J'.
MW-01 and MW-02	Metals	MD %RPD > QC limit (35%) for Cd, Cr, Pb, K, and Zn.	Qualify detected results 'J'.
SS-01, SS-02, FD-082613 (SS-02), SS-03, SS-04, SS-05, SS-06, SS-07, and SS-08	Metals	MD RPD > 35% for As; absolute %D > QL for Sb.	Qualify non-detect results 'UJ' and detected results 'J'.
SS-01, SS-02, FD-082613 (SS-02), SS-03, SS-04, SS-05, SS-06, SS-07, and SS-08	Metals	MD RPD > 120% for Pb.	Qualify detected results 'R'.
CC-01, CC-02, CC-03, CC-04, FD-082913-CC (CC-04), and CC-05	Metals	Serial Dilution %D > QC limits (15%) for Cr, Co, Fe, Pb, Mg, Mn, Ni, and Zn.	Qualify detected results 'J'.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
TRIPLE CITIES METAL FINISHING SITE

SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
CC-01	Metals	CCB contamination below the CRDL for Be.	Qualify results 'U' at the CRDL.
SS-07	Metals	MBLK contamination below the CRDL for Sb.	Qualify results 'U' at the CRDL.
SS-01, FD-082613 (SS-02), SS-02, SS-04, and SS-08	Metals	MBLK contamination below the CRDL for Ag.	Qualify results 'U' at the CRDL.
SS-02, SS-03, SS-07, and MW-02	Metals	MBLK contamination below the CRDL for Na.	Qualify results 'U' at the CRDL.
CC-04 and FD-082913-CC	Miscellaneous	Field Duplicate %RPD > 50% for cyanide and Hex Cr.	Qualify detected results 'J'.
GS-08 and FD-082913-GS	Metals	Field Duplicate %RPD > 50% for Ba and Hg.	Qualify detected results 'J'.
MW-03 and FD-082913-MW	Metals	Field Duplicate %RPD > 50% for Ca.	Qualify detected results 'J'.
GROUNDWATER SAMPLES			
All samples	VOC	RRF in the ICAL < 0.05 for 1, 4-dioxane.	Qualify non-detect results R'.
MW-01, MW-02, FD-090513 (MW-02), MW-03, and TB-090513	VOC	%D between the ICAL average RRF and the CCAL RRF >20% for 2-butanone, tetrachloroethene, t-butylbenzene, and 1, 1, 2-trichloro-1, 2, 2-trifluoroethane.	Qualify non-detect results 'UJ' and detected results 'J'.
MW-01, MW-02, MW-03, and FD-090513 (MW-02)	Metals	CCB contamination below the CRDL for Ba.	Qualify results 'U' at the CRDL.
MW-02, FD-090513 (MW-02), and MW-03	Metals	CCB contamination below the CRDL for Ni.	Qualify results 'U' at the CRDL.
MW-01, FD-090513 (MW-02), and MW-03	Metals	CCB contamination below the CRDL for V.	Qualify results 'U' at the CRDL.

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID		GS-01	GS-02	GS-03	GS-04	GS-05
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,1,2,2-Tetrachloroethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,1,2-Trichloroethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,1-Dichloroethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,1-Dichloroethene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,2,3-Trichlorobenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,2,4-Trichlorobenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,2,4-Trimethylbenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,2-Dibromo-3-chloropropane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,2-Dichlorobenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,2-Dichloroethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,2-Dichloroethene (cis)	UG/KG	5.3 U	5.9	5.7 U	5.3 U	5.2 U
1,2-Dichloroethene (trans)	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,2-Dichloropropane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,3-Dichlorobenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,3-Dichloropropene (cis)	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,3-Dichloropropene (trans)	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,4-Dichlorobenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
1,4-Dioxane	UG/KG	R	R	R	R	R
2-Hexanone	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
4-Methyl-2-pentanone	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID		GS-01	GS-02	GS-03	GS-04	GS-05
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					
Volatile Organic Compounds						
Acetone	UG/KG	5.3 U	5.9 U	5.7 U	4.6 J	5.2 U
Benzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Bromochloromethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Bromodichloromethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Bromoform	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Bromomethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Carbon disulfide	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Carbon tetrachloride	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Chlorobenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Chloroethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Chloroform	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Chloromethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Cyclohexane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Dibromochloromethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Dichlorodifluoromethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Ethylbenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Isopropylbenzene (Cumene)	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
m&p-Xylene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Methyl acetate	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Methyl tert-butyl ether	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Methylcyclohexane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Methylene chloride	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
n-Butylbenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID		GS-01	GS-02	GS-03	GS-04	GS-05
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					
Volatile Organic Compounds						
n-Propylbenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
o-Xylene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
sec-Butylbenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Styrene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
tert-Butylbenzene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Tetrachloroethene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Toluene	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Trichloroethene	UG/KG	5.3 U	170	23	3.1 J	5.5
Trichlorofluoromethane	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Vinyl chloride	UG/KG	5.3 U	5.9 U	5.7 U	5.3 U	5.2 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/KG	380 U	400 U	380 U	360 U	380 U
1,2,4,5-Tetrachlorobenzene	UG/KG	380 U	400 U	380 U	360 U	380 U
2,2-oxybis(1-Chloropropane)	UG/KG	380 U	400 U	380 U	360 U	380 U
2,3,4,6-Tetrachlorophenol	UG/KG	380 U	400 U	380 U	360 U	380 U
2,4,5-Trichlorophenol	UG/KG	770 U	820 U	780 U	740 U	770 U
2,4,6-Trichlorophenol	UG/KG	380 U	400 U	380 U	360 U	380 U
2,4-Dichlorophenol	UG/KG	380 U	400 U	380 U	360 U	380 U
2,4-Dimethylphenol	UG/KG	380 U	400 U	380 U	360 U	380 U
2,4-Dinitrophenol	UG/KG	770 UJ	820 UJ	780 UJ	740 UJ	770 UJ
2,4-Dinitrotoluene	UG/KG	380 U	400 U	380 U	360 U	380 U
2,6-Dinitrotoluene	UG/KG	380 U	400 U	380 U	360 U	380 U
2-Chloronaphthalene	UG/KG	380 U	400 U	380 U	360 U	380 U
2-Chlorophenol	UG/KG	380 U	400 U	380 U	360 U	380 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID		GS-01	GS-02	GS-03	GS-04	GS-05
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG	380 U	400 U	380 U	360 U	380 U
2-Methylphenol (o-cresol)	UG/KG	380 U	400 U	380 U	360 U	380 U
2-Nitroaniline	UG/KG	770 U	820 U	780 U	740 U	770 U
2-Nitrophenol	UG/KG	380 U	400 U	380 U	360 U	380 U
3,3-Dichlorobenzidine	UG/KG	380 U	400 U	380 U	360 U	380 U
3-Nitroaniline	UG/KG	770 U	820 U	780 U	740 U	770 U
4,6-Dinitro-2-methylphenol	UG/KG	770 UJ	820 UJ	780 UJ	740 UJ	770 UJ
4-Bromophenyl-phenylether	UG/KG	380 U	400 U	380 U	360 U	380 U
4-Chloro-3-methylphenol	UG/KG	380 U	400 U	380 U	360 U	380 U
4-Chloroaniline	UG/KG	380 U	400 U	380 U	360 U	380 U
4-Chlorophenyl-phenylether	UG/KG	380 U	400 U	380 U	360 U	380 U
4-Methylphenol (p-cresol)	UG/KG	380 U	400 U	380 U	360 U	380 U
4-Nitroaniline	UG/KG	770 U	820 U	780 U	740 U	770 U
4-Nitrophenol	UG/KG	770 U	820 U	780 U	740 U	770 U
Acenaphthene	UG/KG	380 U	400 U	380 U	360 U	380 U
Acenaphthylene	UG/KG	380 U	400 U	380 U	360 U	380 U
Acetophenone	UG/KG	380 U	400 U	380 U	360 U	380 U
Anthracene	UG/KG	380 U	400 U	380 U	360 U	380 U
Atrazine	UG/KG	380 U	400 U	380 U	360 U	380 U
Benzaldehyde	UG/KG	380 U	400 U	380 U	360 U	380 U
Benzo(a)anthracene	UG/KG	380 U	400 U	110 J	360 U	380 U
Benzo(a)pyrene	UG/KG	380 U	160 J	94 J	360 U	380 U
Benzo(b)fluoranthene	UG/KG	380 U	120 J	130 J	360 U	380 U
Benzo(g,h,i)perylene	UG/KG	380 U	180 J	80 J	360 U	380 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13
 Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID		GS-01	GS-02	GS-03	GS-04	GS-05
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					
Semivolatile Organic Compounds						
Benzo(k)fluoranthene	UG/KG	380 U	400 U	380 U	360 U	380 U
bis(2-Chloroethoxy)methane	UG/KG	380 U	400 U	380 U	360 U	380 U
bis(2-Chloroethyl)ether	UG/KG	380 U	400 U	380 U	360 U	380 U
bis(2-Ethylhexyl)phthalate	UG/KG	380 U	400 U	170 J	400	77 J
Butylbenzylphthalate	UG/KG	380 U	120 J	380 U	360 U	380 U
Caprolactam	UG/KG	380 U	400 U	380 U	360 U	380 U
Carbazole	UG/KG	380 U	400 U	380 U	360 U	380 U
Chrysene	UG/KG	380 U	85 J	110 J	360 U	380 U
Dibenz(a,h)anthracene	UG/KG	380 U	400 U	380 U	360 U	380 U
Dibenzofuran	UG/KG	380 U	400 U	380 U	360 U	380 U
Diethylphthalate	UG/KG	380 U	400 U	380 U	360 U	380 U
Dimethylphthalate	UG/KG	380 U	400 U	380 U	360 U	380 U
Di-n-butylphthalate	UG/KG	160 J	180 J	190 J	180 J	170 J
Di-n-octylphthalate	UG/KG	380 U	400 U	380 U	360 U	380 U
Fluoranthene	UG/KG	380 U	400 U	170 J	360 U	380 U
Fluorene	UG/KG	380 U	400 U	380 U	360 U	380 U
Hexachlorobenzene	UG/KG	380 U	400 U	380 U	360 U	380 U
Hexachlorobutadiene	UG/KG	380 U	400 U	380 U	360 U	380 U
Hexachlorocyclopentadiene	UG/KG	380 U	400 U	380 U	360 U	380 U
Hexachloroethane	UG/KG	380 U	400 U	380 U	360 U	380 U
Indeno(1,2,3-cd)pyrene	UG/KG	380 U	400 U	380 U	360 U	380 U
Isophorone	UG/KG	380 U	400 U	380 U	360 U	380 U
Naphthalene	UG/KG	380 U	400 U	380 U	360 U	380 U
Nitrobenzene	UG/KG	380 U	400 U	380 U	360 U	380 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13
 Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID		GS-01	GS-02	GS-03	GS-04	GS-05
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					
Semivolatile Organic Compounds						
N-Nitroso-di-n-propylamine	UG/KG	380 U	400 U	380 U	360 U	380 U
N-Nitrosodiphenylamine	UG/KG	380 U	400 U	380 U	360 U	380 U
Pentachlorophenol	UG/KG	770 UJ	820 UJ	780 UJ	740 UJ	770 UJ
Phenanthrene	UG/KG	380 U	400 U	150 J	360 U	380 U
Phenol	UG/KG	380 U	400 U	380 U	360 U	380 U
Pyrene	UG/KG	380 U	400 U	170 J	360 U	380 U
Pesticide Organic Compounds						
4,4'-DDD	UG/KG	3.8 U	4.0 U	3.8 U	3.8 U	3.9 U
4,4'-DDE	UG/KG	3.8 U	4.0 U	3.8 U	3.8 U	3.9 U
4,4'-DDT	UG/KG	3.8 U	4.0 U	3.8 U	3.8 U	6.5 J
Aldrin	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U
alpha-BHC	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U
alpha-Chlordane	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U
beta-BHC	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U
delta-BHC	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U
Dieldrin	UG/KG	3.8 U	4.0 U	3.8 U	3.8 U	3.9 U
Endosulfan I	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U
Endosulfan II	UG/KG	3.8 U	4.0 U	3.8 U	3.8 U	3.9 U
Endosulfan sulfate	UG/KG	3.8 U	4.0 U	3.8 U	3.8 U	3.9 U
Endrin	UG/KG	3.8 U	4.0 U	3.8 U	3.8 U	3.9 U
Endrin aldehyde	UG/KG	3.8 U	4.0 U	3.8 U	3.8 U	3.9 U
Endrin ketone	UG/KG	3.8 U	4.0 U	3.8 U	3.8 U	3.9 U
gamma-BHC (Lindane)	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U
gamma-Chlordane	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID		GS-01	GS-02	GS-03	GS-04	GS-05
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					
Pesticide Organic Compounds						
Heptachlor	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U
Heptachlor epoxide	UG/KG	2.0 U	2.1 U	2.0 U	1.9 U	2.0 U
Methoxychlor	UG/KG	20 U	21 U	20 U	19 U	20 U
Toxaphene	UG/KG	200 U	210 U	200 U	190 U	200 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	38 U	40 U	38 U	38 U	39 U
Aroclor 1221	UG/KG	38 U	40 U	38 U	38 U	39 U
Aroclor 1232	UG/KG	38 U	40 U	38 U	38 U	39 U
Aroclor 1242	UG/KG	38 U	40 U	38 U	38 U	39 U
Aroclor 1248	UG/KG	38 U	40 U	38 U	38 U	39 U
Aroclor 1254	UG/KG	38 U	40 U	38 U	38 U	72
Aroclor 1260	UG/KG	38 U	40 U	38 U	38 U	39 U
Aroclor 1262	UG/KG	38 U	40 U	38 U	38 U	39 U
Aroclor 1268	UG/KG	38 U	40 U	38 U	38 U	39 U
Metals						
Aluminum	MG/KG	16,300	16,100	12,900	12,000	14,800
Antimony	MG/KG	0.39 J	1.2 U	1.1 U	1.1 U	0.97 U
Arsenic	MG/KG	12.6	9.2	7.8	6.3	9.9
Barium	MG/KG	60.5	283	82.6	76.8	107
Beryllium	MG/KG	0.69	0.69	0.62	0.44	0.63
Cadmium	MG/KG	0.35	0.92	18.0	23.6	113
Calcium	MG/KG	1,780	1,640	14,000	75,300	14,300
Chromium	MG/KG	24.2	111	456	1,190	288
Cobalt	MG/KG	17.2	15.5	15.0	11.8	12.5

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Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-01	GS-02	GS-03	GS-04	GS-05
Sample ID		GS-01	GS-02	GS-03	GS-04	GS-05
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					
Metals						
Copper	MG/KG	25.7	111	330	260	332
Iron	MG/KG	43,700	28,500	32,500	21,200	33,000
Lead	MG/KG	18.1	268	325	319	158
Magnesium	MG/KG	6,030	4,040	5,790	7,520	4,540
Manganese	MG/KG	609	378	573	577	618
Mercury	MG/KG	0.018 J	0.074	0.11	0.020 J	0.13
Nickel	MG/KG	38.2	40.9	434	231	462
Potassium	MG/KG	840	1,820	970	1,290	1,530
Selenium	MG/KG	0.68 J	1.6 J	0.90 J	1.6 U	0.96 J
Silver	MG/KG	1.2 U	1.8 U	2.4	1.1 J	3.9
Sodium	MG/KG	430	727	103	144	596
Thallium	MG/KG	0.80 U	1.2 U	1.1 U	1.1 U	0.97 U
Vanadium	MG/KG	20.3	23.1	20.7	16.0	20.7
Zinc	MG/KG	106	484	524	469	2,110
Miscellaneous Parameters						
Cyanide (total)	MG/KG	1.0 U	1.2 U	5.4	38.6	32.1
Hexavalent Chromium	MG/KG	4.6 U	4.9 U	4.6 U	180	4.6 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-06	GS-07	GS-08	GS-08	MW-01
Sample ID		GS-06	GS-07	FD-082913-GS	GS-08	MW-01
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/30/13	08/29/13	08/29/13	08/28/13
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	5.6 U	10 U	14	16	5.7 U
1,1,2,2-Tetrachloroethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,1,2-Trichloroethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,1-Dichloroethane	UG/KG	5.6 U	10 U	33	35	5.7 U
1,1-Dichloroethene	UG/KG	5.6 U	10 U	5.2 J	5.4 J	5.7 U
1,2,3-Trichlorobenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,2,4-Trichlorobenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,2,4-Trimethylbenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,2-Dibromo-3-chloropropane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,2-Dichlorobenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,2-Dichloroethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,2-Dichloroethene (cis)	UG/KG	5.6 U	10 U	4,300 D	4,100 D	5.7 U
1,2-Dichloroethene (trans)	UG/KG	5.6 U	10 U	18	19	5.7 U
1,2-Dichloropropane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,3-Dichlorobenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,3-Dichloropropene (cis)	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,3-Dichloropropene (trans)	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,4-Dichlorobenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
1,4-Dioxane	UG/KG	R	R	R	R	R
2-Hexanone	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 UJ
4-Methyl-2-pentanone	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-06	GS-07	GS-08	GS-08	MW-01
Sample ID		GS-06	GS-07	FD-082913-GS	GS-08	MW-01
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/30/13	08/29/13	08/29/13	08/28/13
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Acetone	UG/KG	5.6 U	10 U	5.4 J	6.0 U	5.7 U
Benzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Bromochloromethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Bromodichloromethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Bromoform	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Bromomethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Carbon disulfide	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Carbon tetrachloride	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Chlorobenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Chloroethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Chloroform	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Chloromethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Cyclohexane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Dibromochloromethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Dichlorodifluoromethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Ethylbenzene	UG/KG	5.6 U	10 U	2.5 J	2.3 J	5.7 U
Isopropylbenzene (Cumene)	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
m&p-Xylene	UG/KG	5.6 U	10 U	8.5	7.6	5.7 U
Methyl acetate	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Methyl ethyl ketone (2-Butanone)	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Methyl tert-butyl ether	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Methylcyclohexane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Methylene chloride	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
n-Butylbenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13
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Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-06	GS-07	GS-08	GS-08	MW-01
Sample ID		GS-06	GS-07	FD-082913-GS	GS-08	MW-01
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/30/13	08/29/13	08/29/13	08/28/13
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
n-Propylbenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
o-Xylene	UG/KG	5.6 U	10 U	3.9 J	3.7 J	5.7 U
sec-Butylbenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Styrene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
tert-Butylbenzene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Tetrachloroethene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Toluene	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Trichloroethene	UG/KG	5.6 U	410	2,500 D	2,500 D	5.7 U
Trichlorofluoromethane	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Vinyl chloride	UG/KG	5.6 U	10 U	5.6 U	6.0 U	5.7 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/KG	370 U	410 U	420 U	400 U	360 U
1,2,4,5-Tetrachlorobenzene	UG/KG	370 U	410 U	420 U	400 U	360 U
2,2-oxybis(1-Chloropropane)	UG/KG	370 U	410 U	420 U	400 U	360 U
2,3,4,6-Tetrachlorophenol	UG/KG	370 U	410 U	420 U	400 U	360 U
2,4,5-Trichlorophenol	UG/KG	750 U	820 U	850 U	820 U	740 U
2,4,6-Trichlorophenol	UG/KG	370 U	410 U	420 U	400 U	360 U
2,4-Dichlorophenol	UG/KG	370 U	410 U	420 U	400 U	360 U
2,4-Dimethylphenol	UG/KG	370 U	410 U	420 U	400 U	360 U
2,4-Dinitrophenol	UG/KG	750 UJ	820 UJ	850 UJ	820 UJ	740 U
2,4-Dinitrotoluene	UG/KG	370 U	410 U	420 U	400 U	360 U
2,6-Dinitrotoluene	UG/KG	370 U	410 U	420 U	400 U	1,200
2-Chloronaphthalene	UG/KG	370 U	410 U	420 U	400 U	360 U
2-Chlorophenol	UG/KG	370 U	410 U	420 U	400 U	360 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13
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Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-06	GS-07	GS-08	GS-08	MW-01
Sample ID		GS-06	GS-07	FD-082913-GS	GS-08	MW-01
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/30/13	08/29/13	08/29/13	08/28/13
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG	370 U	410 U	420 U	400 U	360 U
2-Methylphenol (o-cresol)	UG/KG	370 U	410 U	420 U	400 U	360 U
2-Nitroaniline	UG/KG	750 U	820 U	850 U	820 U	740 U
2-Nitrophenol	UG/KG	370 U	410 UJ	420 U	400 U	360 U
3,3-Dichlorobenzidine	UG/KG	370 U	410 U	420 U	400 U	360 U
3-Nitroaniline	UG/KG	750 U	820 U	850 U	820 U	740 U
4,6-Dinitro-2-methylphenol	UG/KG	750 UJ	820 U	850 UJ	820 UJ	740 U
4-Bromophenyl-phenylether	UG/KG	370 U	410 U	420 U	400 U	360 U
4-Chloro-3-methylphenol	UG/KG	370 U	410 U	420 U	400 U	360 U
4-Chloroaniline	UG/KG	370 U	410 U	420 U	400 U	360 U
4-Chlorophenyl-phenylether	UG/KG	370 U	410 U	420 U	400 U	360 U
4-Methylphenol (p-cresol)	UG/KG	370 U	410 U	420 U	400 U	360 U
4-Nitroaniline	UG/KG	750 U	820 U	850 U	820 U	740 U
4-Nitrophenol	UG/KG	750 U	820 U	850 U	820 U	740 U
Acenaphthene	UG/KG	370 U	410 U	420 U	400 U	360 U
Acenaphthylene	UG/KG	370 U	410 U	420 U	400 U	360 U
Acetophenone	UG/KG	370 U	410 U	420 U	400 U	360 U
Anthracene	UG/KG	75 J	410 U	420 U	400 U	360 U
Atrazine	UG/KG	370 U	410 U	420 U	400 U	360 U
Benzaldehyde	UG/KG	370 U	410 U	420 U	400 U	360 U
Benzo(a)anthracene	UG/KG	370 J	410 U	420 U	89 J	360 U
Benzo(a)pyrene	UG/KG	420	410 U	420 U	400 U	360 U
Benzo(b)fluoranthene	UG/KG	700	410 U	420 U	120 J	360 U
Benzo(g,h,i)perylene	UG/KG	350 J	410 U	420 U	400 U	360 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-06	GS-07	GS-08	GS-08	MW-01
Sample ID		GS-06	GS-07	FD-082913-GS	GS-08	MW-01
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/30/13	08/29/13	08/29/13	08/28/13
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Benzo(k)fluoranthene	UG/KG	340 J	410 U	420 U	400 U	360 U
bis(2-Chloroethoxy)methane	UG/KG	370 U	410 U	420 U	400 U	360 U
bis(2-Chloroethyl)ether	UG/KG	370 U	410 U	420 U	400 U	360 U
bis(2-Ethylhexyl)phthalate	UG/KG	370 U	160 J	420 U	400 U	360 U
Butylbenzylphthalate	UG/KG	370 U	410 U	420 U	400 U	360 U
Caprolactam	UG/KG	370 U	410 U	420 U	400 U	360 U
Carbazole	UG/KG	130 J	410 U	420 U	400 U	360 U
Chrysene	UG/KG	710	410 U	420 U	90 J	360 U
Dibenz(a,h)anthracene	UG/KG	100 J	410 U	420 U	400 U	360 U
Dibenzofuran	UG/KG	370 U	410 U	420 U	400 U	360 U
Diethylphthalate	UG/KG	370 U	410 U	420 U	400 U	360 UJ
Dimethylphthalate	UG/KG	370 U	410 U	420 U	400 U	360 U
Di-n-butylphthalate	UG/KG	150 J	410 U	130 J	160 J	180 J
Di-n-octylphthalate	UG/KG	370 U	410 U	420 U	400 U	360 U
Fluoranthene	UG/KG	1,300	87 J	420 U	120 J	360 U
Fluorene	UG/KG	370 U	410 U	420 U	400 U	360 U
Hexachlorobenzene	UG/KG	370 U	410 U	420 U	400 U	360 U
Hexachlorobutadiene	UG/KG	370 U	410 U	420 U	400 U	360 U
Hexachlorocyclopentadiene	UG/KG	370 U	410 UJ	420 U	400 U	360 U
Hexachloroethane	UG/KG	370 U	410 U	420 U	400 U	360 U
Indeno(1,2,3-cd)pyrene	UG/KG	330 J	410 U	420 U	400 U	360 U
Isophorone	UG/KG	370 U	410 U	420 U	400 U	360 U
Naphthalene	UG/KG	370 U	410 U	420 U	400 U	360 U
Nitrobenzene	UG/KG	370 U	410 U	420 U	400 U	360 U

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TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-06	GS-07	GS-08	GS-08	MW-01
Sample ID		GS-06	GS-07	FD-082913-GS	GS-08	MW-01
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/30/13	08/29/13	08/29/13	08/28/13
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
N-Nitroso-di-n-propylamine	UG/KG	370 U	410 U	420 U	400 U	360 U
N-Nitrosodiphenylamine	UG/KG	370 U	410 U	420 U	400 U	360 U
Pentachlorophenol	UG/KG	750 UJ	820 UJ	850 UJ	820 UJ	740 U
Phenanthrene	UG/KG	1,300	410 U	420 U	400 U	360 U
Phenol	UG/KG	370 U	410 U	420 U	400 U	360 U
Pyrene	UG/KG	1,200	96 J	420 U	130 J	360 U
Pesticide Organic Compounds						
4,4'-DDD	UG/KG	3.8 U	4.2 U	4.2 U	4.0 U	3.8 U
4,4'-DDE	UG/KG	3.8 U	4.2 U	4.2 U	4.0 U	3.8 U
4,4'-DDT	UG/KG	3.8 U	4.2 U	4.2 U	4.0 U	3.8 U
Aldrin	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U
alpha-BHC	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U
alpha-Chlordane	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U
beta-BHC	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U
delta-BHC	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U
Dieldrin	UG/KG	3.8 U	4.2 U	4.2 U	4.0 U	3.8 U
Endosulfan I	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U
Endosulfan II	UG/KG	3.8 U	4.2 U	4.2 U	4.0 U	3.8 U
Endosulfan sulfate	UG/KG	3.8 U	4.2 U	4.2 U	4.0 U	3.8 U
Endrin	UG/KG	3.8 U	4.2 U	4.2 U	4.0 U	3.8 U
Endrin aldehyde	UG/KG	3.8 U	4.2 U	4.2 U	4.0 U	3.8 U
Endrin ketone	UG/KG	3.8 U	4.2 U	4.2 U	4.0 U	3.8 U
gamma-BHC (Lindane)	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U
gamma-Chlordane	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U

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Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-06	GS-07	GS-08	GS-08	MW-01
Sample ID		GS-06	GS-07	FD-082913-GS	GS-08	MW-01
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/30/13	08/29/13	08/29/13	08/28/13
Parameter	Units			Field Duplicate (1-1)		
Pesticide Organic Compounds						
Heptachlor	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U
Heptachlor epoxide	UG/KG	2.0 U	2.2 U	2.2 U	2.1 U	1.9 U
Methoxychlor	UG/KG	20 U	22 U	22 U	21 U	19 U
Toxaphene	UG/KG	200 U	220 U	220 U	210 U	190 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	38 U	42 U	42 U	40 U	38 UJ
Aroclor 1221	UG/KG	38 U	42 U	42 U	40 U	38 U
Aroclor 1232	UG/KG	38 U	42 U	42 U	40 U	38 U
Aroclor 1242	UG/KG	38 U	42 U	42 U	40 U	38 U
Aroclor 1248	UG/KG	38 U	42 U	42 U	40 U	38 U
Aroclor 1254	UG/KG	38	42 U	42 U	40 U	38 UJ
Aroclor 1260	UG/KG	38 U	42 U	42 U	40 U	38 UJ
Aroclor 1262	UG/KG	38 U	42 U	42 U	40 U	38 U
Aroclor 1268	UG/KG	38 U	42 U	42 U	40 U	38 U
Metals						
Aluminum	MG/KG	14,300	14,100	14,400	14,100	9,280
Antimony	MG/KG	1.1 U	0.41 J	1.3 U	0.99 U	0.97 UJ
Arsenic	MG/KG	15.3	14.5	17.5	11.7	6.6
Barium	MG/KG	67.4	157	150 J	81.4 J	47.6
Beryllium	MG/KG	0.55	0.72	0.68	0.61	0.37
Cadmium	MG/KG	11.8	1.5	3.1	2.7	0.28 J
Calcium	MG/KG	2,930	8,960	4,510	3,030	26,200
Chromium	MG/KG	171	38.9	39.7	39.4	12.3 J
Cobalt	MG/KG	12.3	14.2	27.3	27.6	8.7

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TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		GS-06	GS-07	GS-08	GS-08	MW-01
Sample ID		GS-06	GS-07	FD-082913-GS	GS-08	MW-01
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/30/13	08/29/13	08/29/13	08/28/13
Parameter	Units			Field Duplicate (1-1)		
Metals						
Copper	MG/KG	151	138	71.4	59.6	18.6
Iron	MG/KG	33,600	37,800	30,200	32,100	19,500
Lead	MG/KG	91.3	211	468	84.1	8.3 J
Magnesium	MG/KG	4,430	3,900	3,950	4,340	8,680
Manganese	MG/KG	427	512	451	438	448
Mercury	MG/KG	0.060	0.16	0.15 J	0.087 J	0.010 J
Nickel	MG/KG	172	33.9	138	170	19.8
Potassium	MG/KG	1,340	1,010	3,340	3,570	820 J
Selenium	MG/KG	1.3 J	1.4	1.7 J	1.3 J	1.5 U
Silver	MG/KG	1.6	3.2	1.9 U	1.5 U	1.5 U
Sodium	MG/KG	289	707	810	641	67.2
Thallium	MG/KG	1.1 U	0.86 U	1.3 U	0.99 U	0.97 U
Vanadium	MG/KG	18.8	22.4	26.6	23.7	12.1
Zinc	MG/KG	1,490	290	763	714	48.7 J
Miscellaneous Parameters						
Cyanide (total)	MG/KG	44.4	1.2 U	1.1 U	1.2 U	1.0 U
Hexavalent Chromium	MG/KG	4.6 U	5.1 U	5.0 U	4.9 U	4.5 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-02	MW-03	MW-03	SS-01	SS-02
Sample ID		MW-02	FD-082913-MW	MW-03	SS-01	FD-082613
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/28/13	08/29/13	08/29/13	08/26/13	08/26/13
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,1,2,2-Tetrachloroethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,1,2-Trichloroethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,1-Dichloroethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,1-Dichloroethene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2,3-Trichlorobenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2,4-Trichlorobenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2,4-Trimethylbenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2-Dibromo-3-chloropropane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2-Dichlorobenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2-Dichloroethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2-Dichloroethene (cis)	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2-Dichloroethene (trans)	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,2-Dichloropropane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,3-Dichlorobenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,3-Dichloropropene (cis)	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,3-Dichloropropene (trans)	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,4-Dichlorobenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
1,4-Dioxane	UG/KG	R	R	R	R	R
2-Hexanone	UG/KG	5.9 UJ	5.9 U	5.8 U	5.2 UJ	6.1 UJ
4-Methyl-2-pentanone	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U

Flags assigned during chemistry validation are shown.

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Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-02	MW-03	MW-03	SS-01	SS-02
Sample ID		MW-02	FD-082913-MW	MW-03	SS-01	FD-082613
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/28/13	08/29/13	08/29/13	08/26/13	08/26/13
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds						
Acetone	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Benzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Bromochloromethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Bromodichloromethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Bromoform	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Bromomethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Carbon disulfide	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Carbon tetrachloride	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Chlorobenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Chloroethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Chloroform	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Chloromethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Cyclohexane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Dibromochloromethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Dichlorodifluoromethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Ethylbenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Isopropylbenzene (Cumene)	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
m&p-Xylene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Methyl acetate	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Methyl ethyl ketone (2-Butanone)	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Methyl tert-butyl ether	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Methylcyclohexane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Methylene chloride	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
n-Butylbenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-02	MW-03	MW-03	SS-01	SS-02
Sample ID		MW-02	FD-082913-MW	MW-03	SS-01	FD-082613
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/28/13	08/29/13	08/29/13	08/26/13	08/26/13
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds						
n-Propylbenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
o-Xylene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
sec-Butylbenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Styrene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
tert-Butylbenzene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Tetrachloroethene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Toluene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Trichloroethene	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Trichlorofluoromethane	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Vinyl chloride	UG/KG	5.9 U	5.9 U	5.8 U	5.2 U	6.1 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/KG	380 U	NA	390 U	360 U	390 U
1,2,4,5-Tetrachlorobenzene	UG/KG	380 U	NA	390 U	360 U	390 U
2,2-oxybis(1-Chloropropane)	UG/KG	380 U	NA	390 U	360 U	390 U
2,3,4,6-Tetrachlorophenol	UG/KG	380 U	NA	390 U	360 U	390 U
2,4,5-Trichlorophenol	UG/KG	770 U	NA	790 U	740 U	800 U
2,4,6-Trichlorophenol	UG/KG	380 U	NA	390 U	360 U	390 U
2,4-Dichlorophenol	UG/KG	380 U	NA	390 U	360 U	390 U
2,4-Dimethylphenol	UG/KG	380 U	NA	390 U	360 U	390 U
2,4-Dinitrophenol	UG/KG	770 U	NA	790 U	740 U	800 U
2,4-Dinitrotoluene	UG/KG	380 U	NA	390 U	360 U	390 U
2,6-Dinitrotoluene	UG/KG	1,300	NA	390 U	360 U	390 U
2-Chloronaphthalene	UG/KG	380 U	NA	390 U	360 U	390 U
2-Chlorophenol	UG/KG	380 U	NA	390 U	360 U	390 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-02	MW-03	MW-03	SS-01	SS-02
Sample ID		MW-02	FD-082913-MW	MW-03	SS-01	FD-082613
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/28/13	08/29/13	08/29/13	08/26/13	08/26/13
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG	380 U	NA	390 U	360 U	390 U
2-Methylphenol (o-cresol)	UG/KG	380 U	NA	390 U	360 U	390 U
2-Nitroaniline	UG/KG	770 U	NA	790 U	740 U	800 U
2-Nitrophenol	UG/KG	380 U	NA	390 U	360 U	390 U
3,3-Dichlorobenzidine	UG/KG	380 U	NA	390 U	360 U	390 U
3-Nitroaniline	UG/KG	770 U	NA	790 U	740 U	800 U
4,6-Dinitro-2-methylphenol	UG/KG	770 U	NA	790 UJ	740 U	800 U
4-Bromophenyl-phenylether	UG/KG	380 U	NA	390 U	360 U	390 U
4-Chloro-3-methylphenol	UG/KG	380 U	NA	390 U	360 U	390 U
4-Chloroaniline	UG/KG	380 U	NA	390 U	360 U	390 U
4-Chlorophenyl-phenylether	UG/KG	380 U	NA	390 U	360 U	390 U
4-Methylphenol (p-cresol)	UG/KG	380 U	NA	390 U	360 U	390 U
4-Nitroaniline	UG/KG	770 U	NA	790 U	740 U	800 U
4-Nitrophenol	UG/KG	770 U	NA	790 U	740 U	800 U
Acenaphthene	UG/KG	380 U	NA	390 U	360 U	390 U
Acenaphthylene	UG/KG	380 U	NA	390 U	360 U	390 U
Acetophenone	UG/KG	380 U	NA	390 U	360 U	390 U
Anthracene	UG/KG	380 U	NA	390 U	360 U	86 J
Atrazine	UG/KG	380 U	NA	390 U	360 U	390 U
Benzaldehyde	UG/KG	380 U	NA	390 U	360 U	390 U
Benzo(a)anthracene	UG/KG	380 U	NA	390 U	210 J	270 J
Benzo(a)pyrene	UG/KG	380 U	NA	390 U	200 J	250 J
Benzo(b)fluoranthene	UG/KG	380 U	NA	390 U	280 J	430
Benzo(g,h,i)perylene	UG/KG	380 U	NA	390 U	140 J	200 J

Flags assigned during chemistry validation are shown.

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Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-02	MW-03	MW-03	SS-01	SS-02
Sample ID		MW-02	FD-082913-MW	MW-03	SS-01	FD-082613
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/28/13	08/29/13	08/29/13	08/26/13	08/26/13
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Semivolatile Organic Compounds						
Benzo(k)fluoranthene	UG/KG	380 U	NA	390 U	120 J	160 J
bis(2-Chloroethoxy)methane	UG/KG	380 U	NA	390 U	360 U	390 U
bis(2-Chloroethyl)ether	UG/KG	380 U	NA	390 U	360 U	390 U
bis(2-Ethylhexyl)phthalate	UG/KG	380 U	NA	150 J	360 U	89 J
Butylbenzylphthalate	UG/KG	380 U	NA	390 U	360 U	390 U
Caprolactam	UG/KG	380 U	NA	390 U	360 U	390 U
Carbazole	UG/KG	380 U	NA	390 U	360 U	390 U
Chrysene	UG/KG	380 U	NA	390 U	260 J	300 J
Dibenz(a,h)anthracene	UG/KG	380 U	NA	390 U	360 U	390 U
Dibenzofuran	UG/KG	380 U	NA	390 U	360 U	390 U
Diethylphthalate	UG/KG	380 UJ	NA	390 U	360 UJ	390 UJ
Dimethylphthalate	UG/KG	380 U	NA	390 U	360 U	390 U
Di-n-butylphthalate	UG/KG	170 J	NA	140 J	160 J	190 J
Di-n-octylphthalate	UG/KG	380 U	NA	390 U	360 U	390 U
Fluoranthene	UG/KG	380 U	NA	390 U	420	420
Fluorene	UG/KG	380 U	NA	390 U	360 U	390 U
Hexachlorobenzene	UG/KG	380 U	NA	390 U	360 U	390 U
Hexachlorobutadiene	UG/KG	380 U	NA	390 U	360 U	390 U
Hexachlorocyclopentadiene	UG/KG	380 U	NA	390 U	360 U	390 U
Hexachloroethane	UG/KG	380 U	NA	390 U	360 U	390 U
Indeno(1,2,3-cd)pyrene	UG/KG	380 U	NA	390 U	130 J	190 J
Isophorone	UG/KG	380 U	NA	390 U	360 U	390 U
Naphthalene	UG/KG	380 U	NA	390 U	360 U	390 U
Nitrobenzene	UG/KG	380 U	NA	390 U	360 U	390 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-02	MW-03	MW-03	SS-01	SS-02
Sample ID		MW-02	FD-082913-MW	MW-03	SS-01	FD-082613
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/28/13	08/29/13	08/29/13	08/26/13	08/26/13
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Semivolatile Organic Compounds						
N-Nitroso-di-n-propylamine	UG/KG	380 U	NA	390 U	360 U	390 U
N-Nitrosodiphenylamine	UG/KG	380 U	NA	390 U	360 U	390 U
Pentachlorophenol	UG/KG	770 U	NA	790 UJ	740 U	800 U
Phenanthrene	UG/KG	380 U	NA	390 U	240 J	120 J
Phenol	UG/KG	380 U	NA	390 U	360 U	390 U
Pyrene	UG/KG	380 U	NA	390 U	350 J	390 J
Pesticide Organic Compounds						
4,4'-DDD	UG/KG	3.8 U	NA	3.9 U	3.8 U	4.0 U
4,4'-DDE	UG/KG	3.8 U	NA	3.9 U	3.8 U	4.0 U
4,4'-DDT	UG/KG	3.8 U	NA	3.9 U	3.8 U	5.4 J
Aldrin	UG/KG	2.0 U	NA	2.0 U	1.9 U	2.1 U
alpha-BHC	UG/KG	2.0 U	NA	2.0 U	1.9 U	2.1 U
alpha-Chlordane	UG/KG	2.0 U	NA	2.0 U	1.9 U	R
beta-BHC	UG/KG	2.0 U	NA	2.0 U	1.9 U	2.1 U
delta-BHC	UG/KG	2.0 U	NA	2.0 U	1.9 U	2.1 U
Dieldrin	UG/KG	3.8 U	NA	3.9 U	3.8 U	4.0 U
Endosulfan I	UG/KG	2.0 U	NA	2.0 U	1.9 U	2.1 U
Endosulfan II	UG/KG	3.8 U	NA	3.9 U	3.8 U	4.0 U
Endosulfan sulfate	UG/KG	3.8 U	NA	3.9 U	3.8 U	4.0 U
Endrin	UG/KG	3.8 U	NA	3.9 U	3.8 U	4.0 U
Endrin aldehyde	UG/KG	3.8 U	NA	3.9 U	3.8 U	4.0 U
Endrin ketone	UG/KG	3.8 U	NA	3.9 U	3.8 U	4.0 U
gamma-BHC (Lindane)	UG/KG	2.0 U	NA	2.0 U	1.9 U	2.1 U
gamma-Chlordane	UG/KG	2.0 U	NA	2.0 U	1.9 U	3.1 J

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TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-02	MW-03	MW-03	SS-01	SS-02
Sample ID		MW-02	FD-082913-MW	MW-03	SS-01	FD-082613
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/28/13	08/29/13	08/29/13	08/26/13	08/26/13
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Pesticide Organic Compounds						
Heptachlor	UG/KG	2.0 U	NA	2.0 U	1.9 U	2.1 U
Heptachlor epoxide	UG/KG	2.0 U	NA	2.0 U	1.9 U	2.1 U
Methoxychlor	UG/KG	20 U	NA	20 U	19 U	21 U
Toxaphene	UG/KG	200 U	NA	200 U	190 U	210 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	38 UJ	NA	39 U	38 UJ	40 UJ
Aroclor 1221	UG/KG	38 U	NA	39 U	38 U	40 U
Aroclor 1232	UG/KG	38 U	NA	39 U	38 U	40 U
Aroclor 1242	UG/KG	38 U	NA	39 U	38 U	40 U
Aroclor 1248	UG/KG	38 U	NA	39 U	38 U	40 U
Aroclor 1254	UG/KG	38 UJ	NA	39 U	38 UJ	40 UJ
Aroclor 1260	UG/KG	38 UJ	NA	39 U	35 J	40 UJ
Aroclor 1262	UG/KG	38 U	NA	39 U	38 U	40 U
Aroclor 1268	UG/KG	38 U	NA	39 U	38 U	40 U
Metals						
Aluminum	MG/KG	11,600	15,000	14,400	10,700	11,400
Antimony	MG/KG	1.1 J	1.1 U	1.0 U	1.7 J	1.7 J
Arsenic	MG/KG	18.7	5.8	7.4	13.9 J	13.2 J
Barium	MG/KG	73.3	104	116	130	137
Beryllium	MG/KG	0.45	0.48	0.51	0.59	0.58
Cadmium	MG/KG	0.58 J	2.2	1.7	1.2	1.8
Calcium	MG/KG	2,600	1,630 J	3,270 J	3,440	4,310
Chromium	MG/KG	16.4 J	17.8 J	18.3 J	33.5 J-	65.2 J-
Cobalt	MG/KG	10.5	10.9 J	15.0 J	12.9	10.4

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Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-02	MW-03	MW-03	SS-01	SS-02
Sample ID		MW-02	FD-082913-MW	MW-03	SS-01	FD-082613
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/28/13	08/29/13	08/29/13	08/26/13	08/26/13
Parameter	Units		Field Duplicate (1-1)			Field Duplicate (1-1)
Metals						
Copper	MG/KG	35.6	11.0	15.3	72.9	84.9
Iron	MG/KG	26,900	26,300 J	33,600 J	21,300	28,100
Lead	MG/KG	23.9 J	15.4 J	12.7 J	R	R
Magnesium	MG/KG	3,890	4,080 J	4,640 J	2,920	3,610
Manganese	MG/KG	522	298 J	453 J	369	397
Mercury	MG/KG	0.021 J	0.0069 J	0.033 J	0.085	0.30
Nickel	MG/KG	33.1	22.5 J	24.5 J	26.2	40.2
Potassium	MG/KG	740 J	766	769	847	599
Selenium	MG/KG	0.78 J	1.3 J	1.2 J	1.1 J	1.7
Silver	MG/KG	1.3 U	1.6 U	1.6 U	1.7 U	1.2 U
Sodium	MG/KG	40.0 J	92.9	87.9	137	47.2
Thallium	MG/KG	0.36 J	1.1 U	1.0 U	0.53 J	0.47 J
Vanadium	MG/KG	15.6	18.6	18.6	20.8	20.3
Zinc	MG/KG	137 J	64.1 J	58.0 J	1,300 J	286 J
Miscellaneous Parameters						
Cyanide (total)	MG/KG	1.0 U	1.1 U	0.96 U	0.96 U	1.1 U
Hexavalent Chromium	MG/KG	4.6 U	4.9 U	4.8 U	R	R

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TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-02	SS-03	SS-04	SS-05	SS-06
Sample ID		SS-02	SS-03	SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,1,2,2-Tetrachloroethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,1,2-Trichloroethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,1-Dichloroethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,1-Dichloroethene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2,3-Trichlorobenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2,4-Trichlorobenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2,4-Trimethylbenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2-Dibromo-3-chloropropane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2-Dichlorobenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2-Dichloroethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2-Dichloroethene (cis)	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2-Dichloroethene (trans)	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,2-Dichloropropane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,3-Dichlorobenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,3-Dichloropropene (cis)	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,3-Dichloropropene (trans)	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,4-Dichlorobenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
1,4-Dioxane	UG/KG	R	R	R	R	R
2-Hexanone	UG/KG	5.8 UJ	6.8 UJ	5.1 UJ	5.0 UJ	5.5 UJ
4-Methyl-2-pentanone	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-02	SS-03	SS-04	SS-05	SS-06
Sample ID		SS-02	SS-03	SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	Units					
Volatile Organic Compounds						
Acetone	UG/KG	5.8 U	6.8 U	5.1 U	6.8	5.5 U
Benzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Bromochloromethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Bromodichloromethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Bromoform	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Bromomethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Carbon disulfide	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Carbon tetrachloride	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Chlorobenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Chloroethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Chloroform	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Chloromethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Cyclohexane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Dibromochloromethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Dichlorodifluoromethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Ethylbenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Isopropylbenzene (Cumene)	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
m&p-Xylene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Methyl acetate	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Methyl tert-butyl ether	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Methylcyclohexane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Methylene chloride	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
n-Butylbenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U

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TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-02	SS-03	SS-04	SS-05	SS-06
Sample ID		SS-02	SS-03	SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	Units					
Volatile Organic Compounds						
n-Propylbenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
o-Xylene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
sec-Butylbenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Styrene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
tert-Butylbenzene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Tetrachloroethene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Toluene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Trichloroethene	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Trichlorofluoromethane	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Vinyl chloride	UG/KG	5.8 U	6.8 U	5.1 U	5.0 U	5.5 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/KG	390 U	460 U	370 U	330 U	350 U
1,2,4,5-Tetrachlorobenzene	UG/KG	390 U	460 U	370 U	330 U	350 U
2,2-oxybis(1-Chloropropane)	UG/KG	390 U	460 U	370 U	330 U	350 U
2,3,4,6-Tetrachlorophenol	UG/KG	390 U	460 U	370 U	330 U	350 U
2,4,5-Trichlorophenol	UG/KG	800 U	940 U	750 U	670 U	710 U
2,4,6-Trichlorophenol	UG/KG	390 U	460 U	370 U	330 U	350 U
2,4-Dichlorophenol	UG/KG	390 U	460 U	370 U	330 U	350 U
2,4-Dimethylphenol	UG/KG	390 U	460 U	370 U	330 U	350 U
2,4-Dinitrophenol	UG/KG	800 U	940 U	750 U	670 U	710 U
2,4-Dinitrotoluene	UG/KG	390 U	460 U	370 U	330 U	350 U
2,6-Dinitrotoluene	UG/KG	390 U	460 U	370 U	330 U	350 U
2-Chloronaphthalene	UG/KG	390 U	460 U	370 U	330 U	350 U
2-Chlorophenol	UG/KG	390 U	460 U	370 U	330 U	350 U

Flags assigned during chemistry validation are shown.

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Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-02	SS-03	SS-04	SS-05	SS-06
Sample ID		SS-02	SS-03	SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	Units					
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG	390 U	460 U	370 U	330 U	350 U
2-Methylphenol (o-cresol)	UG/KG	390 U	460 U	370 U	330 U	350 U
2-Nitroaniline	UG/KG	800 U	940 U	750 U	670 U	710 U
2-Nitrophenol	UG/KG	390 U	460 U	370 U	330 U	350 U
3,3-Dichlorobenzidine	UG/KG	390 U	460 U	370 U	330 U	350 U
3-Nitroaniline	UG/KG	800 U	940 U	750 U	670 U	710 U
4,6-Dinitro-2-methylphenol	UG/KG	800 U	940 U	750 U	670 U	710 U
4-Bromophenyl-phenylether	UG/KG	390 U	460 U	370 U	330 U	350 U
4-Chloro-3-methylphenol	UG/KG	390 U	460 U	370 U	330 U	350 U
4-Chloroaniline	UG/KG	390 U	460 U	370 U	330 U	350 U
4-Chlorophenyl-phenylether	UG/KG	390 U	460 U	370 U	330 U	350 U
4-Methylphenol (p-cresol)	UG/KG	390 U	460 U	370 U	330 U	350 U
4-Nitroaniline	UG/KG	800 U	940 U	750 U	670 U	710 U
4-Nitrophenol	UG/KG	800 U	940 U	750 U	670 U	710 U
Acenaphthene	UG/KG	390 U	460 U	370 U	330 U	350 U
Acenaphthylene	UG/KG	390 U	460 U	370 U	330 U	350 U
Acetophenone	UG/KG	390 U	460 U	370 U	330 U	350 U
Anthracene	UG/KG	390 U	460 U	370 U	330 U	350 U
Atrazine	UG/KG	390 U	460 U	370 U	330 U	350 U
Benzaldehyde	UG/KG	390 U	460 U	370 U	330 U	350 U
Benzo(a)anthracene	UG/KG	180 J	460 U	130 J	89 J	110 J
Benzo(a)pyrene	UG/KG	200 J	460 U	120 J	94 J	110 J
Benzo(b)fluoranthene	UG/KG	330 J	460 U	170 J	140 J	140 J
Benzo(g,h,i)perylene	UG/KG	140 J	460 U	99 J	87 J	94 J

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13
 Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-02	SS-03	SS-04	SS-05	SS-06
Sample ID		SS-02	SS-03	SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	Units					
Semivolatile Organic Compounds						
Benzo(k)fluoranthene	UG/KG	140 J	460 U	75 J	330 U	350 U
bis(2-Chloroethoxy)methane	UG/KG	390 U	460 U	370 U	330 U	350 U
bis(2-Chloroethyl)ether	UG/KG	390 U	460 U	370 U	330 U	350 U
bis(2-Ethylhexyl)phthalate	UG/KG	390 U	130 J	96 J	1,400	280 J
Butylbenzylphthalate	UG/KG	390 U	460 U	370 U	330 U	350 U
Caprolactam	UG/KG	390 U	460 U	370 U	330 U	350 U
Carbazole	UG/KG	390 U	460 U	370 U	330 U	350 U
Chrysene	UG/KG	240 J	460 U	180 J	120 J	130 J
Dibenz(a,h)anthracene	UG/KG	390 U	460 U	370 U	330 U	350 U
Dibenzofuran	UG/KG	390 U	460 U	370 U	330 U	350 U
Diethylphthalate	UG/KG	390 UJ	460 UJ	370 UJ	330 UJ	350 UJ
Dimethylphthalate	UG/KG	390 U	460 U	370 U	330 U	350 U
Di-n-butylphthalate	UG/KG	180 J	210 J	180 J	110 J	180 J
Di-n-octylphthalate	UG/KG	390 U	460 U	370 U	330 U	350 U
Fluoranthene	UG/KG	290 J	100 J	220 J	180 J	220 J
Fluorene	UG/KG	390 U	460 U	370 U	330 U	350 U
Hexachlorobenzene	UG/KG	390 U	460 U	370 U	330 U	350 U
Hexachlorobutadiene	UG/KG	390 U	460 U	370 U	330 U	350 U
Hexachlorocyclopentadiene	UG/KG	390 U	460 U	370 U	330 U	350 U
Hexachloroethane	UG/KG	390 U	460 U	370 U	330 U	350 U
Indeno(1,2,3-cd)pyrene	UG/KG	150 J	460 U	87 J	74 J	80 J
Isophorone	UG/KG	390 U	460 U	370 U	330 U	350 U
Naphthalene	UG/KG	390 U	460 U	370 U	330 U	350 U
Nitrobenzene	UG/KG	390 U	460 U	370 U	330 U	350 U

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Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-02	SS-03	SS-04	SS-05	SS-06
Sample ID		SS-02	SS-03	SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	Units					
Semivolatile Organic Compounds						
N-Nitroso-di-n-propylamine	UG/KG	390 U	460 U	370 U	330 U	350 U
N-Nitrosodiphenylamine	UG/KG	390 U	460 U	370 U	330 U	350 U
Pentachlorophenol	UG/KG	800 U	940 U	750 U	670 U	710 U
Phenanthrene	UG/KG	120 J	460 U	190 J	95 J	160 J
Phenol	UG/KG	390 U	460 U	370 U	330 U	350 U
Pyrene	UG/KG	300 J	110 J	220 J	180 J	190 J
Pesticide Organic Compounds						
4,4'-DDD	UG/KG	3.9 U	4.7 U	3.8 U	3.4 U	3.6 U
4,4'-DDE	UG/KG	3.9 U	4.7 U	3.8 U	3.4 U	3.6 U
4,4'-DDT	UG/KG	3.9 U	4.7 U	3.8 U	5.8	20 NJ
Aldrin	UG/KG	2.0 U	2.4 U	1.9 U	1.8 U	1.9 U
alpha-BHC	UG/KG	2.0 U	2.4 U	1.9 U	1.8 U	1.9 U
alpha-Chlordane	UG/KG	R	2.4 U	1.9 U	1.8 U	1.9 U
beta-BHC	UG/KG	2.0 U	2.4 U	1.9 U	1.8 U	1.9 U
delta-BHC	UG/KG	2.0 U	2.4 U	1.9 U	1.8 U	1.9 U
Dieldrin	UG/KG	3.9 U	4.7 U	3.8 U	3.4 U	R
Endosulfan I	UG/KG	2.0 U	2.4 U	1.9 U	1.8 U	2.0 J
Endosulfan II	UG/KG	3.9 U	4.7 U	3.8 U	3.4 U	3.6 U
Endosulfan sulfate	UG/KG	3.9 U	4.7 U	3.8 U	3.4 U	3.6 U
Endrin	UG/KG	3.9 U	4.7 U	3.8 U	3.4 U	3.6 U
Endrin aldehyde	UG/KG	6.2	4.7 U	3.8 U	5.6	6.5 J
Endrin ketone	UG/KG	3.9 U	4.7 U	3.8 U	3.4 U	4.6 NJ
gamma-BHC (Lindane)	UG/KG	2.0 U	2.4 U	1.9 U	1.8 U	1.9 U
gamma-Chlordane	UG/KG	2.0 U	2.4 U	1.9 U	1.8 U	1.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-02	SS-03	SS-04	SS-05	SS-06
Sample ID		SS-02	SS-03	SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	Units					
Pesticide Organic Compounds						
Heptachlor	UG/KG	2.0 U	2.4 U	1.9 U	1.8 U	1.9 U
Heptachlor epoxide	UG/KG	2.0 U	2.4 U	1.9 U	2.1 J	1.9 U
Methoxychlor	UG/KG	20 U	24 U	19 U	18 U	19 U
Toxaphene	UG/KG	200 U	240 U	190 U	180 U	190 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	39 UJ	47 UJ	38 UJ	34 UJ	36 UJ
Aroclor 1221	UG/KG	39 U	47 U	38 U	34 U	36 U
Aroclor 1232	UG/KG	39 U	47 U	38 U	34 U	36 U
Aroclor 1242	UG/KG	39 U	47 U	38 U	34 U	36 U
Aroclor 1248	UG/KG	39 U	47 U	38 U	34 U	36 U
Aroclor 1254	UG/KG	39 UJ	47 UJ	38 UJ	66 J	150 J
Aroclor 1260	UG/KG	39 UJ	47 UJ	38 UJ	34 UJ	36 U
Aroclor 1262	UG/KG	39 U	47 U	38 U	34 U	36 U
Aroclor 1268	UG/KG	39 U	47 U	38 U	34 U	36 U
Metals						
Aluminum	MG/KG	11,100	13,500	8,960	7,910	11,900
Antimony	MG/KG	1.8 J	187 J	1.9 J	5.4 J	2.4 J
Arsenic	MG/KG	13.3 J	28.5 J	18.0 J	23.5 J	11.3 J
Barium	MG/KG	140	162	145	88.0	133
Beryllium	MG/KG	0.59	0.67	0.68	0.30	0.52
Cadmium	MG/KG	1.9	2.9	1.5	64.3	13.3
Calcium	MG/KG	3,320	1,900	12,100	64,300	7,570
Chromium	MG/KG	62.0 J-	189 J-	50.6 J-	1,220 J-	298 J-
Cobalt	MG/KG	10.8	12.0	9.7	10.9	14.6

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13
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Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-02	SS-03	SS-04	SS-05	SS-06
Sample ID		SS-02	SS-03	SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/26/13	08/26/13	08/26/13	08/26/13	08/26/13
Parameter	Units					
Metals						
Copper	MG/KG	99.8	78.0	73.4	640	819
Iron	MG/KG	30,900	26,100	35,400	43,100	46,000
Lead	MG/KG	R	R	R	R	R
Magnesium	MG/KG	2,950	3,500	3,430	17,900	4,240
Manganese	MG/KG	424	877	335	533	596
Mercury	MG/KG	0.29	0.15	0.19	0.16	0.17
Nickel	MG/KG	58.9	54.0	29.3	423	1,320
Potassium	MG/KG	609	685	781	789	738
Selenium	MG/KG	1.4 J	1.2 J	1.3 J	1.5 U	1.4 U
Silver	MG/KG	1.5 U	1.9 U	1.7 U	6.4	3.2
Sodium	MG/KG	51 U	62 U	108	104	58.5
Thallium	MG/KG	0.46 J	0.99 J	0.54 J	1.1	0.41 J
Vanadium	MG/KG	21.3	23.8	22.5	15.4	17.7
Zinc	MG/KG	285 J	283 J	326 J	3,260 J	1,390 J
Miscellaneous Parameters						
Cyanide (total)	MG/KG	1.0 U	1.2 U	1.0 U	10.8	3.8
Hexavalent Chromium	MG/KG	R	R	R	R	R

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13
 Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-07	SS-08
Sample ID		SS-07	SS-08
Matrix		Soil	Soil
Depth Interval (ft)		-	-
Date Sampled		08/28/13	08/28/13
Parameter	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/KG	6.0 U	6.2 U
1,1,2,2-Tetrachloroethane	UG/KG	6.0 U	6.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6.0 U	6.2 U
1,1,2-Trichloroethane	UG/KG	6.0 U	6.2 U
1,1-Dichloroethane	UG/KG	6.0 U	6.2 U
1,1-Dichloroethene	UG/KG	6.0 U	6.2 U
1,2,3-Trichlorobenzene	UG/KG	6.0 U	6.2 U
1,2,4-Trichlorobenzene	UG/KG	6.0 U	6.2 U
1,2,4-Trimethylbenzene	UG/KG	6.0 U	6.2 U
1,2-Dibromo-3-chloropropane	UG/KG	6.0 U	6.2 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	6.0 U	6.2 U
1,2-Dichlorobenzene	UG/KG	6.0 U	6.2 U
1,2-Dichloroethane	UG/KG	6.0 U	6.2 U
1,2-Dichloroethene (cis)	UG/KG	6.0 U	6.2 U
1,2-Dichloroethene (trans)	UG/KG	6.0 U	6.2 U
1,2-Dichloropropane	UG/KG	6.0 U	6.2 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/KG	6.0 U	6.2 U
1,3-Dichlorobenzene	UG/KG	6.0 U	6.2 U
1,3-Dichloropropene (cis)	UG/KG	6.0 U	6.2 U
1,3-Dichloropropene (trans)	UG/KG	6.0 U	6.2 U
1,4-Dichlorobenzene	UG/KG	6.0 U	6.2 U
1,4-Dioxane	UG/KG	R	R
2-Hexanone	UG/KG	6.0 UJ	6.2 UJ
4-Methyl-2-pentanone	UG/KG	6.0 U	6.2 U

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Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-07	SS-08
Sample ID		SS-07	SS-08
Matrix		Soil	Soil
Depth Interval (ft)		-	-
Date Sampled		08/28/13	08/28/13
Parameter	Units		
Volatile Organic Compounds			
Acetone	UG/KG	6.0 U	6.2 U
Benzene	UG/KG	6.0 U	6.2 U
Bromochloromethane	UG/KG	6.0 U	6.2 U
Bromodichloromethane	UG/KG	6.0 U	6.2 U
Bromoform	UG/KG	6.0 U	6.2 U
Bromomethane	UG/KG	6.0 U	6.2 U
Carbon disulfide	UG/KG	6.0 U	6.2 U
Carbon tetrachloride	UG/KG	6.0 U	6.2 U
Chlorobenzene	UG/KG	6.0 U	6.2 U
Chloroethane	UG/KG	6.0 U	6.2 U
Chloroform	UG/KG	6.0 U	6.2 U
Chloromethane	UG/KG	6.0 U	6.2 U
Cyclohexane	UG/KG	6.0 U	6.2 U
Dibromochloromethane	UG/KG	6.0 U	6.2 U
Dichlorodifluoromethane	UG/KG	6.0 U	6.2 U
Ethylbenzene	UG/KG	6.0 U	6.2 U
Isopropylbenzene (Cumene)	UG/KG	6.0 U	6.2 U
m&p-Xylene	UG/KG	6.0 U	6.2 U
Methyl acetate	UG/KG	6.0 U	6.2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	6.0 U	6.2 U
Methyl tert-butyl ether	UG/KG	6.0 U	6.2 U
Methylcyclohexane	UG/KG	6.0 U	6.2 U
Methylene chloride	UG/KG	6.0 U	6.2 U
n-Butylbenzene	UG/KG	6.0 U	6.2 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-07	SS-08
Sample ID		SS-07	SS-08
Matrix		Soil	Soil
Depth Interval (ft)		-	-
Date Sampled		08/28/13	08/28/13
Parameter	Units		
Volatile Organic Compounds			
n-Propylbenzene	UG/KG	6.0 U	6.2 U
o-Xylene	UG/KG	6.0 U	6.2 U
sec-Butylbenzene	UG/KG	6.0 U	6.2 U
Styrene	UG/KG	6.0 U	6.2 U
tert-Butylbenzene	UG/KG	6.0 U	6.2 U
Tetrachloroethene	UG/KG	6.0 U	6.2 U
Toluene	UG/KG	6.0 U	6.2 U
Trichloroethene	UG/KG	6.0 U	2.9 J
Trichlorofluoromethane	UG/KG	6.0 U	6.2 U
Vinyl chloride	UG/KG	6.0 U	6.2 U
Semivolatile Organic Compounds			
1,1-Biphenyl	UG/KG	400 U	400 U
1,2,4,5-Tetrachlorobenzene	UG/KG	400 U	400 U
2,2-oxybis(1-Chloropropane)	UG/KG	400 U	400 U
2,3,4,6-Tetrachlorophenol	UG/KG	400 U	400 U
2,4,5-Trichlorophenol	UG/KG	820 U	820 U
2,4,6-Trichlorophenol	UG/KG	400 U	400 U
2,4-Dichlorophenol	UG/KG	400 U	400 U
2,4-Dimethylphenol	UG/KG	400 U	400 U
2,4-Dinitrophenol	UG/KG	820 U	820 U
2,4-Dinitrotoluene	UG/KG	400 U	400 U
2,6-Dinitrotoluene	UG/KG	400 U	400 U
2-Chloronaphthalene	UG/KG	400 U	400 U
2-Chlorophenol	UG/KG	400 U	400 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-07	SS-08
Sample ID		SS-07	SS-08
Matrix		Soil	Soil
Depth Interval (ft)		-	-
Date Sampled		08/28/13	08/28/13
Parameter	Units		
Semivolatile Organic Compounds			
2-Methylnaphthalene	UG/KG	400 U	400 U
2-Methylphenol (o-cresol)	UG/KG	400 U	400 U
2-Nitroaniline	UG/KG	820 U	820 U
2-Nitrophenol	UG/KG	400 U	400 U
3,3-Dichlorobenzidine	UG/KG	400 U	400 U
3-Nitroaniline	UG/KG	820 U	820 U
4,6-Dinitro-2-methylphenol	UG/KG	820 U	820 U
4-Bromophenyl-phenylether	UG/KG	400 U	400 U
4-Chloro-3-methylphenol	UG/KG	400 U	400 U
4-Chloroaniline	UG/KG	400 U	400 U
4-Chlorophenyl-phenylether	UG/KG	400 U	400 U
4-Methylphenol (p-cresol)	UG/KG	400 U	400 U
4-Nitroaniline	UG/KG	820 U	820 U
4-Nitrophenol	UG/KG	820 U	820 U
Acenaphthene	UG/KG	400 U	400 U
Acenaphthylene	UG/KG	400 U	400 U
Acetophenone	UG/KG	400 U	400 U
Anthracene	UG/KG	400 U	400 U
Atrazine	UG/KG	400 U	400 U
Benzaldehyde	UG/KG	400 U	400 U
Benzo(a)anthracene	UG/KG	400 U	400 U
Benzo(a)pyrene	UG/KG	400 U	400 U
Benzo(b)fluoranthene	UG/KG	85 J	120 J
Benzo(g,h,i)perylene	UG/KG	400 U	400 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-07	SS-08
Sample ID		SS-07	SS-08
Matrix		Soil	Soil
Depth Interval (ft)		-	-
Date Sampled		08/28/13	08/28/13
Parameter	Units		
Semivolatile Organic Compounds			
Benzo(k)fluoranthene	UG/KG	400 U	400 U
bis(2-Chloroethoxy)methane	UG/KG	400 U	400 U
bis(2-Chloroethyl)ether	UG/KG	400 U	400 U
bis(2-Ethylhexyl)phthalate	UG/KG	400 U	180 J
Butylbenzylphthalate	UG/KG	400 U	400 U
Caprolactam	UG/KG	400 U	400 U
Carbazole	UG/KG	400 U	400 U
Chrysene	UG/KG	400 U	130 J
Dibenz(a,h)anthracene	UG/KG	400 U	400 U
Dibenzofuran	UG/KG	400 U	400 U
Diethylphthalate	UG/KG	400 UJ	400 UJ
Dimethylphthalate	UG/KG	400 U	400 U
Di-n-butylphthalate	UG/KG	170 J	210 J
Di-n-octylphthalate	UG/KG	400 U	400 U
Fluoranthene	UG/KG	94 J	140 J
Fluorene	UG/KG	400 U	400 U
Hexachlorobenzene	UG/KG	400 U	400 U
Hexachlorobutadiene	UG/KG	400 U	400 U
Hexachlorocyclopentadiene	UG/KG	400 U	400 U
Hexachloroethane	UG/KG	400 U	400 U
Indeno(1,2,3-cd)pyrene	UG/KG	400 U	400 U
Isophorone	UG/KG	400 U	400 U
Naphthalene	UG/KG	400 U	400 U
Nitrobenzene	UG/KG	400 U	400 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-07	SS-08
Sample ID		SS-07	SS-08
Matrix		Soil	Soil
Depth Interval (ft)		-	-
Date Sampled		08/28/13	08/28/13
Parameter	Units		
Semivolatile Organic Compounds			
N-Nitroso-di-n-propylamine	UG/KG	400 U	400 U
N-Nitrosodiphenylamine	UG/KG	400 U	400 U
Pentachlorophenol	UG/KG	820 U	820 U
Phenanthrene	UG/KG	400 U	85 J
Phenol	UG/KG	400 U	400 U
Pyrene	UG/KG	83 J	100 J
Pesticide Organic Compounds			
4,4'-DDD	UG/KG	4.0 U	4.1 U
4,4'-DDE	UG/KG	4.0 U	7.0 NJ
4,4'-DDT	UG/KG	4.0 U	R
Aldrin	UG/KG	2.1 U	2.1 U
alpha-BHC	UG/KG	2.1 U	2.1 U
alpha-Chlordane	UG/KG	2.1 U	2.1 U
beta-BHC	UG/KG	2.1 U	2.1 U
delta-BHC	UG/KG	2.1 U	2.1 U
Dieldrin	UG/KG	4.0 U	5.6 NJ
Endosulfan I	UG/KG	2.1 U	2.1 U
Endosulfan II	UG/KG	4.0 U	4.1 U
Endosulfan sulfate	UG/KG	4.0 U	11 NJ
Endrin	UG/KG	4.0 U	4.1 U
Endrin aldehyde	UG/KG	4.0 U	4.1 U
Endrin ketone	UG/KG	4.0 U	15
gamma-BHC (Lindane)	UG/KG	2.1 U	2.1 U
gamma-Chlordane	UG/KG	2.1 U	2.1 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-07	SS-08
Sample ID		SS-07	SS-08
Matrix		Soil	Soil
Depth Interval (ft)		-	-
Date Sampled		08/28/13	08/28/13
Parameter	Units		
Pesticide Organic Compounds			
Heptachlor	UG/KG	2.1 U	2.1 U
Heptachlor epoxide	UG/KG	2.1 U	2.1 U
Methoxychlor	UG/KG	21 U	21 U
Toxaphene	UG/KG	210 U	210 U
Polychlorinated Biphenyls			
Aroclor 1016	UG/KG	40 UJ	41 UJ
Aroclor 1221	UG/KG	40 U	41 U
Aroclor 1232	UG/KG	40 U	41 U
Aroclor 1242	UG/KG	40 U	41 U
Aroclor 1248	UG/KG	40 U	41 U
Aroclor 1254	UG/KG	40 UJ	94 J
Aroclor 1260	UG/KG	40 UJ	41 UJ
Aroclor 1262	UG/KG	40 U	41 U
Aroclor 1268	UG/KG	40 U	41 U
Metals			
Aluminum	MG/KG	10,200	8,560
Antimony	MG/KG	1.2 UJ	1.2 UJ
Arsenic	MG/KG	10.1 J	13.3 J
Barium	MG/KG	116	104
Beryllium	MG/KG	0.55	0.28 J
Cadmium	MG/KG	0.72	4.7
Calcium	MG/KG	9,080	2,980
Chromium	MG/KG	17.4 J-	544 J-
Cobalt	MG/KG	9.6	8.9

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 2
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		SS-07	SS-08
Sample ID		SS-07	SS-08
Matrix		Soil	Soil
Depth Interval (ft)		-	-
Date Sampled		08/28/13	08/28/13
Parameter	Units		
Metals			
Copper	MG/KG	43.2	211
Iron	MG/KG	22,400	21,600
Lead	MG/KG	R	R
Magnesium	MG/KG	3,850	1,880
Manganese	MG/KG	406	284
Mercury	MG/KG	0.12	0.31
Nickel	MG/KG	23.0	73.1
Potassium	MG/KG	852	598
Selenium	MG/KG	2.1	1.8
Silver	MG/KG	1.8 U	1.8 U
Sodium	MG/KG	59 U	65.4
Thallium	MG/KG	1.2 U	0.56 J
Vanadium	MG/KG	18.1	18.0
Zinc	MG/KG	146 J	603 J
Miscellaneous Parameters			
Cyanide (total)	MG/KG	1.2 U	2.2
Hexavalent Chromium	MG/KG	R	R

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-01	CC-02	CC-03	CC-04	CC-04
Sample ID		CC-01	CC-02	CC-03	CC-04	FD-082913-CC
Matrix		Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/KG	330 U	350 U	330 U	350 U	360 U
1,2,4,5-Tetrachlorobenzene	UG/KG	330 U	350 U	330 U	350 U	360 U
2,2-oxybis(1-Chloropropane)	UG/KG	330 U	350 U	330 U	350 U	360 U
2,3,4,6-Tetrachlorophenol	UG/KG	330 U	350 U	330 U	350 U	360 U
2,4,5-Trichlorophenol	UG/KG	670 U	710 U	670 U	710 U	740 U
2,4,6-Trichlorophenol	UG/KG	330 U	350 U	330 U	350 U	360 U
2,4-Dichlorophenol	UG/KG	330 U	350 U	330 U	350 U	360 U
2,4-Dimethylphenol	UG/KG	330 U	350 U	330 U	350 U	360 U
2,4-Dinitrophenol	UG/KG	670 U	710 U	670 U	710 U	740 U
2,4-Dinitrotoluene	UG/KG	330 U	350 U	330 U	350 U	360 U
2,6-Dinitrotoluene	UG/KG	330 U	350 U	330 U	350 U	360 U
2-Chloronaphthalene	UG/KG	330 U	350 U	330 U	350 U	360 U
2-Chlorophenol	UG/KG	330 U	350 U	330 U	350 U	360 U
2-Methylnaphthalene	UG/KG	330 U	350 U	330 U	350 U	360 U
2-Methylphenol (o-cresol)	UG/KG	330 U	350 U	330 U	350 U	360 U
2-Nitroaniline	UG/KG	670 U	710 U	670 U	710 U	740 U
2-Nitrophenol	UG/KG	330 U	350 U	330 U	350 U	360 U
3,3-Dichlorobenzidine	UG/KG	330 U	350 U	330 U	350 U	360 U
3-Nitroaniline	UG/KG	670 U	710 U	670 U	710 U	740 U
4,6-Dinitro-2-methylphenol	UG/KG	670 U	710 U	670 U	710 U	740 U
4-Bromophenyl-phenylether	UG/KG	330 U	350 U	330 U	350 U	360 U
4-Chloro-3-methylphenol	UG/KG	330 U	350 U	330 U	350 U	360 U
4-Chloroaniline	UG/KG	330 U	350 U	330 U	350 U	360 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-01	CC-02	CC-03	CC-04	CC-04
Sample ID		CC-01	CC-02	CC-03	CC-04	FD-082913-CC
Matrix		Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/KG	330 U	350 U	330 U	350 U	360 U
4-Methylphenol (p-cresol)	UG/KG	330 U	350 U	330 U	350 U	360 U
4-Nitroaniline	UG/KG	670 U	710 U	670 U	710 U	740 U
4-Nitrophenol	UG/KG	670 U	710 U	670 U	710 U	740 U
Acenaphthene	UG/KG	330 U	350 U	330 U	350 U	360 U
Acenaphthylene	UG/KG	330 U	350 U	330 U	350 U	360 U
Acetophenone	UG/KG	330 U	350 U	330 U	350 U	360 U
Anthracene	UG/KG	330 U	350 U	330 U	350 U	360 U
Atrazine	UG/KG	330 U	350 U	330 U	350 U	360 U
Benzaldehyde	UG/KG	330 U	350 U	330 U	350 U	360 U
Benzo(a)anthracene	UG/KG	330 U	350 U	330 U	350 U	360 U
Benzo(a)pyrene	UG/KG	330 U	350 U	330 U	350 U	360 U
Benzo(b)fluoranthene	UG/KG	330 U	350 U	330 U	350 U	360 U
Benzo(g,h,i)perylene	UG/KG	330 U	350 U	330 U	350 U	360 U
Benzo(k)fluoranthene	UG/KG	330 U	350 U	330 U	350 U	360 U
bis(2-Chloroethoxy)methane	UG/KG	330 U	350 U	330 U	350 U	360 U
bis(2-Chloroethyl)ether	UG/KG	330 U	350 U	330 U	350 U	360 U
bis(2-Ethylhexyl)phthalate	UG/KG	330 U	350 U	330 U	140 J	320 J
Butylbenzylphthalate	UG/KG	330 U	350 U	330 U	350 U	360 U
Caprolactam	UG/KG	330 U	350 U	330 U	350 U	360 U
Carbazole	UG/KG	330 U	350 U	330 U	350 U	360 U
Chrysene	UG/KG	330 U	350 U	330 U	350 U	360 U
Dibenz(a,h)anthracene	UG/KG	330 U	350 U	330 U	350 U	360 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-01	CC-02	CC-03	CC-04	CC-04
Sample ID		CC-01	CC-02	CC-03	CC-04	FD-082913-CC
Matrix		Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	330 U	350 U	330 U	350 U	360 U
Diethylphthalate	UG/KG	330 U	350 U	330 U	350 U	360 U
Dimethylphthalate	UG/KG	330 U	350 U	330 U	350 U	360 U
Di-n-butylphthalate	UG/KG	91 J	98 J	93 J	88 J	120 J
Di-n-octylphthalate	UG/KG	330 U	350 U	330 U	350 U	360 U
Fluoranthene	UG/KG	330 U	350 U	330 U	350 U	360 U
Fluorene	UG/KG	330 U	350 U	330 U	350 U	360 U
Hexachlorobenzene	UG/KG	330 U	350 U	330 U	350 U	360 U
Hexachlorobutadiene	UG/KG	330 U	350 U	330 U	350 U	360 U
Hexachlorocyclopentadiene	UG/KG	330 U	350 U	330 U	350 U	360 U
Hexachloroethane	UG/KG	330 U	350 U	330 U	350 U	360 U
Indeno(1,2,3-cd)pyrene	UG/KG	330 U	350 U	330 U	350 U	360 U
Isophorone	UG/KG	330 U	350 U	330 U	350 U	360 U
Naphthalene	UG/KG	330 U	350 U	330 U	350 U	360 U
Nitrobenzene	UG/KG	330 U	350 U	330 U	350 U	360 U
N-Nitroso-di-n-propylamine	UG/KG	330 U	350 U	330 U	350 U	360 U
N-Nitrosodiphenylamine	UG/KG	330 U	350 U	330 U	350 U	360 U
Pentachlorophenol	UG/KG	670 U	710 U	670 U	710 U	740 U
Phenanthrene	UG/KG	330 U	350 U	330 U	350 U	360 U
Phenol	UG/KG	330 U	350 U	330 U	350 U	360 U
Pyrene	UG/KG	330 U	350 U	330 U	350 U	360 U
Pesticide Organic Compounds						
4,4'-DDD	UG/KG	3.4 U	3.5 U	3.4 U	3.6 U	3.6 U

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-01	CC-02	CC-03	CC-04	CC-04
Sample ID		CC-01	CC-02	CC-03	CC-04	FD-082913-CC
Matrix		Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					Field Duplicate (1-1)
Pesticide Organic Compounds						
4,4'-DDE	UG/KG	3.4 U	3.5 U	3.4 U	3.6 U	3.6 U
4,4'-DDT	UG/KG	3.4 U	3.5 U	3.4 U	3.6 U	3.6 U
Aldrin	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
alpha-BHC	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
alpha-Chlordane	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
beta-BHC	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
delta-BHC	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Dieldrin	UG/KG	3.4 U	3.5 U	3.4 U	3.6 U	3.6 U
Endosulfan I	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Endosulfan II	UG/KG	3.4 U	3.5 U	3.4 U	3.6 U	3.6 U
Endosulfan sulfate	UG/KG	3.4 U	3.5 U	3.4 U	3.6 U	3.6 U
Endrin	UG/KG	3.4 U	3.5 U	3.4 U	3.6 U	3.6 U
Endrin aldehyde	UG/KG	3.4 U	3.5 U	3.4 U	3.6 U	3.6 U
Endrin ketone	UG/KG	3.4 U	3.5 U	3.4 U	3.6 U	3.6 U
gamma-BHC (Lindane)	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
gamma-Chlordane	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Heptachlor	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Heptachlor epoxide	UG/KG	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Methoxychlor	UG/KG	18 U	18 U	18 U	18 U	19 U
Toxaphene	UG/KG	180 U	180 U	180 U	180 U	190 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	34 U	35 U	34 U	36 U	36 U
Aroclor 1221	UG/KG	34 U	35 U	34 U	36 U	36 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-01	CC-02	CC-03	CC-04	CC-04
Sample ID		CC-01	CC-02	CC-03	CC-04	FD-082913-CC
Matrix		Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					Field Duplicate (1-1)
Polychlorinated Biphenyls						
Aroclor 1232	UG/KG	34 U	35 U	34 U	36 U	36 U
Aroclor 1242	UG/KG	34 U	35 U	34 U	36 U	36 U
Aroclor 1248	UG/KG	34 U	35 U	34 U	36 U	36 U
Aroclor 1254	UG/KG	34 U	35 U	34 U	32 J	40
Aroclor 1260	UG/KG	34 U	35 U	34 U	36 U	36 U
Aroclor 1262	UG/KG	34 U	35 U	34 U	36 U	36 U
Aroclor 1268	UG/KG	34 U	35 U	34 U	36 U	36 U
Metals						
Aluminum	MG/KG	9,310	10,600	9,470	9,150	8,710
Antimony	MG/KG	1.0 UJ	1.0 UJ	0.78 UJ	0.77 UJ	0.86 UJ
Arsenic	MG/KG	7.8 J	3.6 J	5.8 J	2.7 J	2.8 J
Barium	MG/KG	63.2	60.9	76.5	52.7	60.9
Beryllium	MG/KG	0.26 U	0.34	0.51	0.34	0.34
Cadmium	MG/KG	0.22 J	0.24 J	9.4	9.9	8.7
Calcium	MG/KG	86,500	66,500	91,800	112,000	132,000
Chromium	MG/KG	133 J	11.8 J	257 J	5,460 J	6,540 J
Cobalt	MG/KG	5.4 J	5.0 J	6.5 J	4.0 J	3.5 J
Copper	MG/KG	39.1	25.0	100	189	257
Iron	MG/KG	12,100 J	14,700 J	14,700 J	12,100 J	10,300 J
Lead	MG/KG	21.7 J	7.6 J	23.4 J	50.1 J	178 J
Magnesium	MG/KG	7,690 J	4,380 J	5,260 J	8,170 J	10,200 J
Manganese	MG/KG	443 J	340 J	684 J	288 J	270 J
Mercury	MG/KG	0.012 J	0.0067 J	0.0046 J	0.090	0.0049 J

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

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 (SITE KEY) = 18 AND (MATRIX) = 'CC'

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-01	CC-02	CC-03	CC-04	CC-04
Sample ID		CC-01	CC-02	CC-03	CC-04	FD-082913-CC
Matrix		Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip	Concrete Chip
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/29/13	08/29/13	08/29/13	08/29/13	08/29/13
Parameter	Units					Field Duplicate (1-1)
Metals						
Nickel	MG/KG	21.2 J	12.7 J	59.3 J	257 J	315 J
Potassium	MG/KG	1,250	616	633	1,510	1,800
Selenium	MG/KG	1.5 U	1.5 U	1.2 U	1.1 U	1.3 U
Silver	MG/KG	0.82 J	1.5 U	0.36 J	0.44 J	0.72 J
Sodium	MG/KG	406	203	137	766	942
Thallium	MG/KG	1.0 U	1.0 U	0.78 U	0.77 U	0.39 J
Vanadium	MG/KG	26.4	14.3	14.4	16.1	17.6
Zinc	MG/KG	464 J	108 J	280 J	404 J	194 J
Miscellaneous Parameters						
Cyanide (total)	MG/KG	0.97 U	0.62 J	16.0	13.4 J	23.5 J
Hexavalent Chromium	MG/KG	19	4.2 U	6.4	3,600 J	1,600 J

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-05
Sample ID		CC-05
Matrix		Concrete Chip
Depth Interval (ft)		-
Date Sampled		08/29/13
Parameter	Units	
Semivolatile Organic Compounds		
1,1-Biphenyl	UG/KG	340 U
1,2,4,5-Tetrachlorobenzene	UG/KG	340 U
2,2-oxybis(1-Chloropropane)	UG/KG	340 U
2,3,4,6-Tetrachlorophenol	UG/KG	340 U
2,4,5-Trichlorophenol	UG/KG	700 U
2,4,6-Trichlorophenol	UG/KG	340 U
2,4-Dichlorophenol	UG/KG	340 U
2,4-Dimethylphenol	UG/KG	340 U
2,4-Dinitrophenol	UG/KG	700 U
2,4-Dinitrotoluene	UG/KG	340 U
2,6-Dinitrotoluene	UG/KG	340 U
2-Chloronaphthalene	UG/KG	340 U
2-Chlorophenol	UG/KG	340 U
2-Methylnaphthalene	UG/KG	340 U
2-Methylphenol (o-cresol)	UG/KG	340 U
2-Nitroaniline	UG/KG	700 U
2-Nitrophenol	UG/KG	340 U
3,3-Dichlorobenzidine	UG/KG	340 U
3-Nitroaniline	UG/KG	700 U
4,6-Dinitro-2-methylphenol	UG/KG	700 U
4-Bromophenyl-phenylether	UG/KG	340 U
4-Chloro-3-methylphenol	UG/KG	340 U
4-Chloroaniline	UG/KG	340 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-05
Sample ID		CC-05
Matrix		Concrete Chip
Depth Interval (ft)		-
Date Sampled		08/29/13
Parameter	Units	
Semivolatile Organic Compounds		
4-Chlorophenyl-phenylether	UG/KG	340 U
4-Methylphenol (p-cresol)	UG/KG	340 U
4-Nitroaniline	UG/KG	700 U
4-Nitrophenol	UG/KG	700 U
Acenaphthene	UG/KG	340 U
Acenaphthylene	UG/KG	340 U
Acetophenone	UG/KG	340 U
Anthracene	UG/KG	340 U
Atrazine	UG/KG	340 U
Benzaldehyde	UG/KG	340 U
Benzo(a)anthracene	UG/KG	340 U
Benzo(a)pyrene	UG/KG	340 U
Benzo(b)fluoranthene	UG/KG	340 U
Benzo(g,h,i)perylene	UG/KG	340 U
Benzo(k)fluoranthene	UG/KG	340 U
bis(2-Chloroethoxy)methane	UG/KG	340 U
bis(2-Chloroethyl)ether	UG/KG	340 U
bis(2-Ethylhexyl)phthalate	UG/KG	180 J
Butylbenzylphthalate	UG/KG	340 U
Caprolactam	UG/KG	340 U
Carbazole	UG/KG	340 U
Chrysene	UG/KG	340 U
Dibenz(a,h)anthracene	UG/KG	340 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-05
Sample ID		CC-05
Matrix		Concrete Chip
Depth Interval (ft)		-
Date Sampled		08/29/13
Parameter	Units	
Semivolatile Organic Compounds		
Dibenzofuran	UG/KG	340 U
Diethylphthalate	UG/KG	340 U
Dimethylphthalate	UG/KG	340 U
Di-n-butylphthalate	UG/KG	94 J
Di-n-octylphthalate	UG/KG	340 U
Fluoranthene	UG/KG	340 U
Fluorene	UG/KG	340 U
Hexachlorobenzene	UG/KG	340 U
Hexachlorobutadiene	UG/KG	340 U
Hexachlorocyclopentadiene	UG/KG	340 U
Hexachloroethane	UG/KG	340 U
Indeno(1,2,3-cd)pyrene	UG/KG	340 U
Isophorone	UG/KG	340 U
Naphthalene	UG/KG	340 U
Nitrobenzene	UG/KG	340 U
N-Nitroso-di-n-propylamine	UG/KG	340 U
N-Nitrosodiphenylamine	UG/KG	340 U
Pentachlorophenol	UG/KG	700 U
Phenanthrene	UG/KG	340 U
Phenol	UG/KG	340 U
Pyrene	UG/KG	340 U
Pesticide Organic Compounds		
4,4'-DDD	UG/KG	3.4 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-05
Sample ID		CC-05
Matrix		Concrete Chip
Depth Interval (ft)		-
Date Sampled		08/29/13
Parameter	Units	
Pesticide Organic Compounds		
4,4'-DDE	UG/KG	3.4 U
4,4'-DDT	UG/KG	3.4 U
Aldrin	UG/KG	1.7 U
alpha-BHC	UG/KG	1.7 U
alpha-Chlordane	UG/KG	1.7 U
beta-BHC	UG/KG	1.7 U
delta-BHC	UG/KG	1.7 U
Dieldrin	UG/KG	3.4 U
Endosulfan I	UG/KG	1.7 U
Endosulfan II	UG/KG	3.4 U
Endosulfan sulfate	UG/KG	3.4 U
Endrin	UG/KG	3.4 U
Endrin aldehyde	UG/KG	3.4 U
Endrin ketone	UG/KG	3.4 U
gamma-BHC (Lindane)	UG/KG	1.7 U
gamma-Chlordane	UG/KG	1.7 U
Heptachlor	UG/KG	1.7 U
Heptachlor epoxide	UG/KG	1.7 U
Methoxychlor	UG/KG	17 U
Toxaphene	UG/KG	170 U
Polychlorinated Biphenyls		
Aroclor 1016	UG/KG	34 U
Aroclor 1221	UG/KG	34 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-05
Sample ID		CC-05
Matrix		Concrete Chip
Depth Interval (ft)		-
Date Sampled		08/29/13
Parameter	Units	
Polychlorinated Biphenyls		
Aroclor 1232	UG/KG	34 U
Aroclor 1242	UG/KG	34 U
Aroclor 1248	UG/KG	34 U
Aroclor 1254	UG/KG	34 U
Aroclor 1260	UG/KG	34 U
Aroclor 1262	UG/KG	34 U
Aroclor 1268	UG/KG	34 U
Metals		
Aluminum	MG/KG	7,590
Antimony	MG/KG	0.97 UJ
Arsenic	MG/KG	2.4 J
Barium	MG/KG	46.5
Beryllium	MG/KG	0.26
Cadmium	MG/KG	0.59
Calcium	MG/KG	159,000
Chromium	MG/KG	70.8 J
Cobalt	MG/KG	4.1 J
Copper	MG/KG	20.1
Iron	MG/KG	11,100 J
Lead	MG/KG	5.5 J
Magnesium	MG/KG	45,100 J
Manganese	MG/KG	317 J
Mercury	MG/KG	0.0060 J

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 3
VALIDATED CONCRETE CHIP SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		CC-05
Sample ID		CC-05
Matrix		Concrete Chip
Depth Interval (ft)		-
Date Sampled		08/29/13
Parameter	Units	
Metals		
Nickel	MG/KG	15.2 J
Potassium	MG/KG	1,390
Selenium	MG/KG	1.5 U
Silver	MG/KG	0.31 J
Sodium	MG/KG	958
Thallium	MG/KG	0.97 U
Vanadium	MG/KG	19.8
Zinc	MG/KG	160 J
Miscellaneous Parameters		
Cyanide (total)	MG/KG	3.0
Hexavalent Chromium	MG/KG	30

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13
 Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-01	MW-02	MW-02	MW-03
Sample ID		MW-01	FD-090513	MW-02	MW-03
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/05/13	09/05/13	09/05/13	09/05/13
Parameter	Units		Field Duplicate (1-1)		
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L	5.0 U	0.57 J	5.0 U	39
1,1,2,2-Tetrachloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
1,1,2-Trichloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	UG/L	5.0 U	1.2 J	1.2 J	1.7 J
1,1-Dichloroethene	UG/L	5.0 U	5.0 U	5.0 U	13
1,2,3-Trichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	5.0 U	3.8 J	3.3 J	3.9 J
1,2-Dichloroethene (trans)	UG/L	5.0 U	4.3 J	4.1 J	1.0 J
1,2-Dichloropropane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	UG/L	R	R	R	R
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-01	MW-02	MW-02	MW-03
Sample ID		MW-01	FD-090513	MW-02	MW-03
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/05/13	09/05/13	09/05/13	09/05/13
Parameter	Units		Field Duplicate (1-1)		
Volatile Organic Compounds					
Acetone	UG/L	6.6	5.0 U	5.0 U	5.0 U
Benzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
m&p-Xylene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Methyl tert-butyl ether	UG/L	5.0 U	2.9 J	2.9 J	5.0 U
Methylcyclohexane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
n-Butylbenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-01	MW-02	MW-02	MW-03
Sample ID		MW-01	FD-090513	MW-02	MW-03
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/05/13	09/05/13	09/05/13	09/05/13
Parameter	Units		Field Duplicate (1-1)		
Volatile Organic Compounds					
n-Propylbenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
sec-Butylbenzene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Tetrachloroethene	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	4.8 J
Toluene	UG/L	0.66 J	5.0 U	5.0 U	5.0 U
Trichloroethene	UG/L	1.0 J	7.7	8.1	220 D
Trichlorofluoromethane	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Semivolatile Organic Compounds					
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U
1,2,4,5-Tetrachlorobenzene	UG/L	10 U	10 U	10 U	10 U
2,2-oxybis(1-Chloropropane)	UG/L	10 U	10 U	10 U	10 U
2,3,4,6-Tetrachlorophenol	UG/L	25 U	25 U	25 U	25 U
2,4,5-Trichlorophenol	UG/L	20 U	20 U	20 U	20 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-01	MW-02	MW-02	MW-03
Sample ID		MW-01	FD-090513	MW-02	MW-03
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/05/13	09/05/13	09/05/13	09/05/13
Parameter	Units		Field Duplicate (1-1)		
Semivolatile Organic Compounds					
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	20 U	20 U	20 U	20 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	10 U	10 U	10 U	10 U
3-Nitroaniline	UG/L	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	UG/L	20 U	20 U	20 U	20 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	20 U	20 U	20 U	20 U
4-Nitrophenol	UG/L	20 U	20 U	20 U	20 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-01	MW-02	MW-02	MW-03
Sample ID		MW-01	FD-090513	MW-02	MW-03
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/05/13	09/05/13	09/05/13	09/05/13
Parameter	Units		Field Duplicate (1-1)		
Semivolatile Organic Compounds					
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	1.3 J	10 U	1.3 J	1.1 J
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	10 U	10 U	10 U	10 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-01	MW-02	MW-02	MW-03
Sample ID		MW-01	FD-090513	MW-02	MW-03
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/05/13	09/05/13	09/05/13	09/05/13
Parameter	Units		Field Duplicate (1-1)		
Semivolatile Organic Compounds					
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	20 U	20 U	20 U	20 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U
Pesticide Organic Compounds					
4,4'-DDD	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone	UG/L	0.10 U	0.10 U	0.10 U	0.10 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-01	MW-02	MW-02	MW-03
Sample ID		MW-01	FD-090513	MW-02	MW-03
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/05/13	09/05/13	09/05/13	09/05/13
Parameter	Units		Field Duplicate (1-1)		
Pesticide Organic Compounds					
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Polychlorinated Biphenyls					
Aroclor 1016	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1221	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1232	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1242	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1248	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1254	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1260	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1262	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1268	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Metals					
Aluminum	UG/L	8,180	576	651	2,800
Antimony	UG/L	20 U	20 U	20 U	20 U
Arsenic	UG/L	7.0 J	20 U	20 U	20 U
Barium	UG/L	200 U	200 U	200 U	200 U
Beryllium	UG/L	0.40 J	5.0 U	5.0 U	5.0 U
Cadmium	UG/L	5.0 U	3.6 J	3.3 J	5.0 U
Calcium	UG/L	37,100	132,000	131,000	118,000
Chromium	UG/L	493	11.6 J	11.8 J	883
Cobalt	UG/L	17.6 J	6.7 J	5.8 J	3.7 J

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		MW-01	MW-02	MW-02	MW-03
Sample ID		MW-01	FD-090513	MW-02	MW-03
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/05/13	09/05/13	09/05/13	09/05/13
Parameter	Units		Field Duplicate (1-1)		
Metals					
Copper	UG/L	42.6	4.8 J	4.5 J	7.5 J
Iron	UG/L	19,200	927	982	4,890
Lead	UG/L	13.5	10 U	10 U	5.5 J
Magnesium	UG/L	28,700	30,300	30,100	24,900
Manganese	UG/L	360	1,380	1,370	337
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	317	50 U	50 U	50 U
Potassium	UG/L	61,800	22,600	20,500	5,360
Selenium	UG/L	30.0 U	30.0 U	30.0 U	30.0 U
Silver	UG/L	8.5 J	30 U	30 U	30 U
Sodium	UG/L	77,800	180,000	177,000	76,800
Thallium	UG/L	20 U	20 U	20 U	20 U
Vanadium	UG/L	50 U	50 U	50 U	50 U
Zinc	UG/L	61.9	17.9 J	16.6 J	19.5 J
Miscellaneous Parameters					
Cyanide (total)	UG/L	20 U	20 U	20 U	13.1 J
Hexavalent Chromium	MG/L	0.030 U	0.030 U	0.030 U	1.0

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 5
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		FIELDQC	FIELDQC
Sample ID		EB-082613	TB-090513
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		08/26/13	09/05/13
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	NA	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	NA	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	NA	5.0 UJ
1,1,2-Trichloroethane	UG/L	NA	5.0 U
1,1-Dichloroethane	UG/L	NA	5.0 U
1,1-Dichloroethene	UG/L	NA	5.0 U
1,2,3-Trichlorobenzene	UG/L	NA	5.0 U
1,2,4-Trichlorobenzene	UG/L	NA	5.0 U
1,2,4-Trimethylbenzene	UG/L	NA	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	NA	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	NA	5.0 U
1,2-Dichlorobenzene	UG/L	NA	5.0 U
1,2-Dichloroethane	UG/L	NA	5.0 U
1,2-Dichloroethene (cis)	UG/L	NA	5.0 U
1,2-Dichloroethene (trans)	UG/L	NA	5.0 U
1,2-Dichloropropane	UG/L	NA	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	NA	5.0 U
1,3-Dichlorobenzene	UG/L	NA	5.0 U
1,3-Dichloropropene (cis)	UG/L	NA	5.0 U
1,3-Dichloropropene (trans)	UG/L	NA	5.0 U
1,4-Dichlorobenzene	UG/L	NA	5.0 U
1,4-Dioxane	UG/L	NA	R
2-Hexanone	UG/L	NA	5.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 5
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		FIELDQC	FIELDQC
Sample ID		EB-082613	TB-090513
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		08/26/13	09/05/13
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
4-Methyl-2-pentanone	UG/L	NA	5.0 U
Acetone	UG/L	NA	5.0 U
Benzene	UG/L	NA	5.0 U
Bromochloromethane	UG/L	NA	5.0 U
Bromodichloromethane	UG/L	NA	5.0 U
Bromoform	UG/L	NA	5.0 U
Bromomethane	UG/L	NA	5.0 U
Carbon disulfide	UG/L	NA	5.0 U
Carbon tetrachloride	UG/L	NA	5.0 U
Chlorobenzene	UG/L	NA	5.0 U
Chloroethane	UG/L	NA	5.0 U
Chloroform	UG/L	NA	5.0 U
Chloromethane	UG/L	NA	5.0 U
Cyclohexane	UG/L	NA	5.0 U
Dibromochloromethane	UG/L	NA	5.0 U
Dichlorodifluoromethane	UG/L	NA	5.0 U
Ethylbenzene	UG/L	NA	5.0 U
Isopropylbenzene (Cumene)	UG/L	NA	5.0 U
m&p-Xylene	UG/L	NA	5.0 U
Methyl acetate	UG/L	NA	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	NA	5.0 U
Methyl tert-butyl ether	UG/L	NA	5.0 U
Methylcyclohexane	UG/L	NA	5.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

TABLE 5
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
TRIPLE CITIES METAL FINISHING

Location ID		FIELDQC	FIELDQC
Sample ID		EB-082613	TB-090513
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		08/26/13	09/05/13
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
Methylene chloride	UG/L	NA	5.0 U
n-Butylbenzene	UG/L	NA	5.0 U
n-Propylbenzene	UG/L	NA	5.0 U
o-Xylene	UG/L	NA	5.0 U
sec-Butylbenzene	UG/L	NA	5.0 U
Styrene	UG/L	NA	5.0 U
tert-Butylbenzene	UG/L	NA	5.0 UJ
Tetrachloroethene	UG/L	NA	5.0 UJ
Toluene	UG/L	NA	5.0 U
Trichloroethene	UG/L	NA	5.0 U
Trichlorofluoromethane	UG/L	NA	5.0 U
Vinyl chloride	UG/L	NA	5.0 U
Polychlorinated Biphenyls			
Aroclor 1016	UG/L	1.0 UJ	NA
Aroclor 1221	UG/L	1.0 U	NA
Aroclor 1232	UG/L	1.0 U	NA
Aroclor 1242	UG/L	1.0 U	NA
Aroclor 1248	UG/L	1.0 U	NA
Aroclor 1254	UG/L	1.0 UJ	NA
Aroclor 1260	UG/L	1.0 UJ	NA
Aroclor 1262	UG/L	1.0 U	NA
Aroclor 1268	UG/L	1.0 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 10/17/13

Checked By: PRF 10/17/13

Detection Limits shown are PQL

ATTACHMENT A
VALIDATED FORM 1s

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-03C
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M4376.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 14 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	5.3	U
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-01

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: M1594

Mod. Ref No.:

SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: M1594-03C

Sample wt/vol: 5.50 (g/mL) G

Lab File ID: V1M4376.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/30/2013

% Moisture: not dec. 14

Date Analyzed: 09/11/2013

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 10.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
179601-23-1	m,p-Xylene		5.3	U
95-47-6	o-Xylene		5.3	U
100-42-5	Styrene		5.3	U
75-25-2	Bromoform		5.3	U
98-82-8	Isopropylbenzene		5.3	U
79-34-5	1,1,2,2-Tetrachloroethane		5.3	U
103-65-1	n-Propylbenzene		5.3	U
108-67-8	1,3,5-Trimethylbenzene		5.3	U
98-06-6	tert-Butylbenzene		5.3	U
95-63-6	1,2,4-Trimethylbenzene		5.3	U
135-98-8	sec-Butylbenzene		5.3	U
541-73-1	1,3-Dichlorobenzene		5.3	U
106-46-7	1,4-Dichlorobenzene		5.3	U
104-51-8	n-Butylbenzene		5.3	U
95-50-1	1,2-Dichlorobenzene		5.3	U
96-12-8	1,2-Dibromo-3-chloropropane		5.3	U
120-82-1	1,2,4-Trichlorobenzene		5.3	U
87-61-6	1,2,3-Trichlorobenzene		5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.3	U
123-91-1	1,4-Dioxane		410	U R
110-82-7	Cyclohexane		5.3	U
79-20-9	Methyl acetate		5.3	U
108-87-2	Methylcyclohexane		5.3	U

Q1594
10/7/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-03C
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M4376.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 14 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-04C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4377.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 18 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	59	
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	170	
78-87-5	1,2-Dichloropropane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
100-41-4	Ethylbenzene	5.9	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-04C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4377.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 18 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
123-91-1	1,4-Dioxane	420	U R
110-82-7	Cyclohexane	5.9	U
79-20-9	Methyl acetate	5.9	U
108-87-2	Methylcyclohexane	5.9	U

Handwritten signature
10/7/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-04C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4377.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 18 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-05C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4378.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 14 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	23	
78-87-5	1,2-Dichloropropane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
100-41-4	Ethylbenzene	5.7	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-05C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4378.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 14 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
179601-23-1	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
123-91-1	1,4-Dioxane	110	U R
110-82-7	Cyclohexane	5.7	U
79-20-9	Methyl acetate	5.7	U
108-87-2	Methylcyclohexane	5.7	U

Q154
10/7/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-05C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4378.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 14 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-06C
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M4379.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 12 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
67-64-1	Acetone	4.6	J
75-15-0	Carbon disulfide	5.3	U
75-09-2	Methylene chloride	5.3	U
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
78-93-3	2-Butanone	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
71-43-2	Benzene	5.3	U
79-01-6	Trichloroethene	3.1	J
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	5.3	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	5.3	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-06C
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M4379.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 12 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.3	U
95-47-6	o-Xylene	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
103-65-1	n-Propylbenzene	5.3	U
108-67-8	1,3,5-Trimethylbenzene	5.3	U
98-06-6	tert-Butylbenzene	5.3	U
95-63-6	1,2,4-Trimethylbenzene	5.3	U
135-98-8	sec-Butylbenzene	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
104-51-8	n-Butylbenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
123-91-1	1,4-Dioxane	110	U R
110-82-7	Cyclohexane	5.3	U
79-20-9	Methyl acetate	5.3	U
108-87-2	Methylcyclohexane	5.3	U

Handwritten signature and date 10/7/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-06C
Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1M4379.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 12 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-07C
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M4380.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 15 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
78-93-3	2-Butanone	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.5	
78-87-5	1,2-Dichloropropane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
100-41-4	Ethylbenzene	5.2	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-07C
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M4380.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 15 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	5.2	U
79-20-9	Methyl acetate	5.2	U
108-87-2	Methylcyclohexane	5.2	U

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-07C
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M4380.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 15 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-08C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4381.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 14 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
67-64-1	Acetone	5.6	U
75-15-0	Carbon disulfide	5.6	U
75-09-2	Methylene chloride	5.6	U
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
71-43-2	Benzene	5.6	U
79-01-6	Trichloroethene	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-pentanone	5.6	U
108-88-3	Toluene	5.6	U
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	5.6	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
100-41-4	Ethylbenzene	5.6	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-08C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4381.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 14 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
98-06-6	tert-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
123-91-1	1,4-Dioxane	~~110~~	~~U~~ R
110-82-7	Cyclohexane	5.6	U
79-20-9	Methyl acetate	5.6	U
108-87-2	Methylcyclohexane	5.6	U

Handwritten: 10/1/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-08C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4381.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 14 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1607-01C
Sample wt/vol: 3.10 (g/mL) G Lab File ID: V1M4489.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2013
% Moisture: not dec. 21 Date Analyzed: 09/13/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
79-01-6	Trichloroethene	410	
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1607-01C
Sample wt/vol: 3.10 (g/mL) G Lab File ID: V1M4489.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2013
% Moisture: not dec. 21 Date Analyzed: 09/13/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
104-51-8	n-Butylbenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
123-91-1	1,4-Dioxane	200	U <i>B</i>
110-82-7	Cyclohexane	10	U
79-20-9	Methyl acetate	10	U
108-87-2	Methylcyclohexane	10	U

Handwritten: 10/10/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1607-01C
Sample wt/vol: 3.10 (g/mL) G Lab File ID: V1M4489.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/31/2013
% Moisture: not dec. 21 Date Analyzed: 09/13/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4382.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 20 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.0	U
74-87-3	Chloromethane	6.0	U
75-01-4	Vinyl chloride	6.0	U
74-83-9	Bromomethane	6.0	U
75-00-3	Chloroethane	6.0	U
75-69-4	Trichlorofluoromethane	6.0	U
75-35-4	1,1-Dichloroethene	5.4	J
67-64-1	Acetone	6.0	U
75-15-0	Carbon disulfide	6.0	U
75-09-2	Methylene chloride	6.0	U
156-60-5	trans-1,2-Dichloroethene	19	
1634-04-4	Methyl tert-butyl ether	6.0	U
75-34-3	1,1-Dichloroethane	35	
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	4100 ~~1200~~	~~U~~
74-97-5	Bromochloromethane	6.0	U
67-66-3	Chloroform	6.0	U
71-55-6	1,1,1-Trichloroethane	16	
56-23-5	Carbon tetrachloride	6.0	U
107-06-2	1,2-Dichloroethane	6.0	U
71-43-2	Benzene	6.0	U
79-01-6	Trichloroethene	2500 ~~270~~	~~U~~
78-87-5	1,2-Dichloropropane	6.0	U
75-27-4	Bromodichloromethane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
108-10-1	4-Methyl-2-pentanone	6.0	U
108-88-3	Toluene	6.0	U
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
127-18-4	Tetrachloroethene	6.0	U
591-78-6	2-Hexanone	6.0	U
124-48-1	Dibromochloromethane	6.0	U
106-93-4	1,2-Dibromoethane	6.0	U
108-90-7	Chlorobenzene	6.0	U
100-41-4	Ethylbenzene	2.3	J

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4382.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 20 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	7.6	
95-47-6	o-Xylene	3.7	J
100-42-5	Styrene	6.0	U
75-25-2	Bromoform	6.0	U
98-82-8	Isopropylbenzene	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	6.0	U
95-50-1	1,2-Dichlorobenzene	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U
123-91-1	1,4-Dioxane	~~120~~	U R
110-82-7	Cyclohexane	6.0	U
79-20-9	Methyl acetate	6.0	U
108-87-2	Methylcyclohexane	6.0	U

QPR
10/7/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4382.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 20 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-08ME

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: M1594

Mod. Ref No.: SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: M1594-09C

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: V8D0488.D

Level: (TRACE/LOW/MED) MED

Date Received: 08/30/2013

% Moisture: not dec. 20

Date Analyzed: 09/12/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	370	U
74-87-3	Chloromethane	370	U
75-01-4	Vinyl chloride	370	U
74-83-9	Bromomethane	370	U
75-00-3	Chloroethane	370	U
75-69-4	Trichlorofluoromethane	370	U
75-35-4	1,1-Dichloroethene	370	U
67-64-1	Acetone	370	U
75-15-0	Carbon disulfide	370	U
75-09-2	Methylene chloride	370	U
156-60-5	trans-1,2-Dichloroethene	75	J
1634-04-4	Methyl tert-butyl ether	370	U
75-34-3	1,1-Dichloroethane	130	J
78-93-3	2-Butanone	370	U
156-59-2	cis-1,2-Dichloroethene	4100	
74-97-5	Bromochloromethane	370	U
67-66-3	Chloroform	370	U
71-55-6	1,1,1-Trichloroethane	140	J
56-23-5	Carbon tetrachloride	370	U
107-06-2	1,2-Dichloroethane	370	U
71-43-2	Benzene	370	U
79-01-6	Trichloroethene	2500	
78-87-5	1,2-Dichloropropane	370	U
75-27-4	Bromodichloromethane	370	U
10061-01-5	cis-1,3-Dichloropropene	370	U
108-10-1	4-Methyl-2-pentanone	370	U
108-88-3	Toluene	370	U
10061-02-6	trans-1,3-Dichloropropene	370	U
79-00-5	1,1,2-Trichloroethane	370	U
127-18-4	Tetrachloroethene	370	U
591-78-6	2-Hexanone	370	U
124-48-1	Dibromochloromethane	370	U
106-93-4	1,2-Dibromoethane	370	U
108-90-7	Chlorobenzene	370	U
100-41-4	Ethylbenzene	370	U

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10/7/13

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-08ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8D0488.D
Level: (TRACE/LOW/MED) MED Date Received: 08/30/2013
% Moisture: not dec. 20 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
179601-23-1	m,p-Xylene		120	J
95-47-6	o-Xylene		57	J
100-42-5	Styrene		370	U
75-25-2	Bromoform		370	U
98-82-8	Isopropylbenzene		370	U
79-34-5	1,1,2,2-Tetrachloroethane		370	U
103-65-1	n-Propylbenzene		370	U
108-67-8	1,3,5-Trimethylbenzene		370	U
98-06-6	tert-Butylbenzene		370	U
95-63-6	1,2,4-Trimethylbenzene		370	U
135-98-8	sec-Butylbenzene		370	U
541-73-1	1,3-Dichlorobenzene		370	U
106-46-7	1,4-Dichlorobenzene		370	U
104-51-8	n-Butylbenzene		370	U
95-50-1	1,2-Dichlorobenzene		370	U
96-12-8	1,2-Dibromo-3-chloropropane		370	U
120-82-1	1,2,4-Trichlorobenzene		370	U
87-61-6	1,2,3-Trichlorobenzene		370	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		370	U
123-91-1	1,4-Dioxane		7400	U R
110-82-7	Cyclohexane		370	U
79-20-9	Methyl acetate		370	U
108-87-2	Methylcyclohexane		370	U

QAP
10/7/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-08ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8D0488.D
Level: (TRACE or LOW/MED) MED Date Received: 08/30/2013
% Moisture: not dec. 20 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

Q1594
10/7/13

GS-08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-082913-GS

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: M1594

Mod. Ref No.:

SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: M1594-10C

Sample wt/vol: 5.80 (g/mL) G

Lab File ID: V1M4383.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/30/2013

% Moisture: not dec. 23

Date Analyzed: 09/12/2013

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume:

(uL)

Purge Volume: 10.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.6	U	
74-87-3	Chloromethane	5.6	U	
75-01-4	Vinyl chloride	5.6	U	
74-83-9	Bromomethane	5.6	U	
75-00-3	Chloroethane	5.6	U	
75-69-4	Trichlorofluoromethane	5.6	U	
75-35-4	1,1-Dichloroethene	5.2	J	
67-64-1	Acetone	5.4	J	
75-15-0	Carbon disulfide	5.6	U	
75-09-2	Methylene chloride	5.6	U	
156-60-5	trans-1,2-Dichloroethene	18		
1634-04-4	Methyl tert-butyl ether	5.6	U	
75-34-3	1,1-Dichloroethane	33		
78-93-3	2-Butanone	5.6	U	
156-59-2	cis-1,2-Dichloroethene	4300 1100	~~5.6~~	~~U~~ D
74-97-5	Bromochloromethane	5.6	U	
67-66-3	Chloroform	5.6	U	
71-55-6	1,1,1-Trichloroethane	14		
56-23-5	Carbon tetrachloride	5.6	U	
107-06-2	1,2-Dichloroethane	5.6	U	
71-43-2	Benzene	5.6	U	
79-01-6	Trichloroethene	2500 260	~~5.6~~	~~U~~ D
78-87-5	1,2-Dichloropropane	5.6	U	
75-27-4	Bromodichloromethane	5.6	U	
10061-01-5	cis-1,3-Dichloropropene	5.6	U	
108-10-1	4-Methyl-2-pentanone	5.6	U	
108-88-3	Toluene	5.6	U	
10061-02-6	trans-1,3-Dichloropropene	5.6	U	
79-00-5	1,1,2-Trichloroethane	5.6	U	
127-18-4	Tetrachloroethene	5.6	U	
591-78-6	2-Hexanone	5.6	U	
124-48-1	Dibromochloromethane	5.6	U	
106-93-4	1,2-Dibromoethane	5.6	U	
108-90-7	Chlorobenzene	5.6	U	
100-41-4	Ethylbenzene	2.5	J	

0.18
07/13

GS-08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-082913-GS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-10C

Sample wt/vol: 5.80 (g/mL) G Lab File ID: V1M4383.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013

% Moisture: not dec. 23 Date Analyzed: 09/12/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	8.5	
95-47-6	o-Xylene	3.9	J
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
98-06-6	tert-Butylbenzene	5.6	U
95-63-6	1,2,4-Trimethylbenzene	5.6	U
135-98-8	sec-Butylbenzene	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
104-51-8	n-Butylbenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
123-91-1	1,4-Dioxane	110	U-B
110-82-7	Cyclohexane	5.6	U
79-20-9	Methyl acetate	5.6	U
108-87-2	Methylcyclohexane	5.6	U

OK
10/1/13

GS-08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FD-082913-GS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-10C
Sample wt/vol: 5.80 (g/mL) G Lab File ID: V1M4383.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 23 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

GS-08

EPA SAMPLE NO.

FD-082913-GSME

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: M1594

Mod. Ref No.:

SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: M1594-10C

Sample wt/vol: 5.30 (g/mL) G

Lab File ID: V8D0489.D

Level: (TRACE/LOW/MED) MED

Date Received: 08/30/2013

% Moisture: not dec. 23

Date Analyzed: 09/12/2013

GC Column: DB-624

ID: 0.25

(mm)

Dilution Factor: 1.0

Soil Extract Volume: 5000

(uL)

Soil Aliquot Volume: 100.00

(uL)

Purge Volume: 5.0

(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	380	U	
74-87-3	Chloromethane	380	U	
75-01-4	Vinyl chloride	380	U	
74-83-9	Bromomethane	380	U	
75-00-3	Chloroethane	380	U	
75-69-4	Trichlorofluoromethane	380	U	
75-35-4	1,1-Dichloroethene	380	U	
67-64-1	Acetone	380	U	
75-15-0	Carbon disulfide	380	U	
75-09-2	Methylene chloride	380	U	
156-60-5	trans-1,2-Dichloroethene	80	J	
1634-04-4	Methyl tert-butyl ether	380	U	
75-34-3	1,1-Dichloroethane	140	J	
78-93-3	2-Butanone	380	U	
156-59-2	cis-1,2-Dichloroethene	4300		
74-97-5	Bromochloromethane	380	U	
67-66-3	Chloroform	380	U	
71-55-6	1,1,1-Trichloroethane	150	J	
56-23-5	Carbon tetrachloride	380	U	
107-06-2	1,2-Dichloroethane	380	U	
71-43-2	Benzene	380	U	
79-01-6	Trichloroethene	2500		
78-87-5	1,2-Dichloropropane	380	U	
75-27-4	Bromodichloromethane	380	U	
10061-01-5	cis-1,3-Dichloropropene	380	U	
108-10-1	4-Methyl-2-pentanone	380	U	
108-88-3	Toluene	380	U	
10061-02-6	trans-1,3-Dichloropropene	380	U	
79-00-5	1,1,2-Trichloroethane	380	U	
127-18-4	Tetrachloroethene	380	U	
591-78-6	2-Hexanone	380	U	
124-48-1	Dibromochloromethane	380	U	
106-93-4	1,2-Dibromoethane	380	U	
108-90-7	Chlorobenzene	380	U	
100-41-4	Ethylbenzene	380	U	

04/08
09/13

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

GS-08

EPA SAMPLE NO.

FD-082913-GSME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-10C
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8D0489.D
Level: (TRACE/LOW/MED) MED Date Received: 08/30/2013
% Moisture: not dec. 23 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	120	J
95-47-6	o-Xylene	56	J
100-42-5	Styrene	380	U
75-25-2	Bromoform	380	U
98-82-8	Isopropylbenzene	380	U
79-34-5	1,1,2,2-Tetrachloroethane	380	U-3
103-65-1	n-Propylbenzene	380	U
108-67-8	1,3,5-Trimethylbenzene	380	U
98-06-6	tert-Butylbenzene	380	U
95-63-6	1,2,4-Trimethylbenzene	380	U
135-98-8	sec-Butylbenzene	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
104-51-8	n-Butylbenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
96-12-8	1,2-Dibromo-3-chloropropane	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
87-61-6	1,2,3-Trichlorobenzene	380	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	380	U
123-91-1	1,4-Dioxane	7500	U-R
110-82-7	Cyclohexane	380	U
79-20-9	Methyl acetate	380	U
108-87-2	Methylcyclohexane	380	U

10/7/13

68-08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FD-082913-GSME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-10C
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V8D0489.D
Level: (TRACE or LOW/MED) MED Date Received: 08/30/2013
% Moisture: not dec. 23 Date Analyzed: 09/12/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

01/13

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-09C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4298.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 14 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
67-64-1	Acetone	5.7	U
75-15-0	Carbon disulfide	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
78-93-3	2-Butanone	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
71-43-2	Benzene	5.7	U
79-01-6	Trichloroethene	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
100-41-4	Ethylbenzene	5.7	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-09C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4298.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 14 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.7	U
95-47-6	o-Xylene	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
103-65-1	n-Propylbenzene	5.7	U
108-67-8	1,3,5-Trimethylbenzene	5.7	U
98-06-6	tert-Butylbenzene	5.7	U
95-63-6	1,2,4-Trimethylbenzene	5.7	U
135-98-8	sec-Butylbenzene	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
104-51-8	n-Butylbenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
123-91-1	1,4-Dioxane	110	U
110-82-7	Cyclohexane	5.7	U
79-20-9	Methyl acetate	5.7	U
108-87-2	Methylcyclohexane	5.7	U

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09/10/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-09C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4298.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 14 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-12C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M4301.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 15 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U 3
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
100-41-4	Ethylbenzene	5.9	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-12C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: VLM4301.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 15 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
179601-23-1	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
123-91-1	1,4-Dioxane	~~120~~	~~U~~ R
110-82-7	Cyclohexane	5.9	U
79-20-9	Methyl acetate	5.9	U
108-87-2	Methylcyclohexane	5.9	U

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10/13/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-12C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M4301.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 15 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-01C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4374.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 16 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
100-41-4	Ethylbenzene	5.8	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-01C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4374.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 16 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
123-91-1	1,4-Dioxane	120	U - R
110-82-7	Cyclohexane	5.8	U
79-20-9	Methyl acetate	5.8	U
108-87-2	Methylcyclohexane	5.8	U

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-01C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4374.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 16 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

mw-03

EPA SAMPLE NO.

FD-082913-MW

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-02B
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4375.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 17 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
67-64-1	Acetone	5.9	U
75-15-0	Carbon disulfide	5.9	U
75-09-2	Methylene chloride	5.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
78-93-3	2-Butanone	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
71-43-2	Benzene	5.9	U
79-01-6	Trichloroethene	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-pentanone	5.9	U
108-88-3	Toluene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	5.9	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
100-41-4	Ethylbenzene	5.9	U

OK
10/11/13

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

mw-03

EPA SAMPLE NO.

FD-082913-MW

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-02B
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4375.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 17 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.9	U
95-47-6	o-Xylene	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
103-65-1	n-Propylbenzene	5.9	U
108-67-8	1,3,5-Trimethylbenzene	5.9	U
98-06-6	tert-Butylbenzene	5.9	U
95-63-6	1,2,4-Trimethylbenzene	5.9	U
135-98-8	sec-Butylbenzene	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
104-51-8	n-Butylbenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
123-91-1	1,4-Dioxane	~~120~~	~~U~~ R
110-82-7	Cyclohexane	5.9	U
79-20-9	Methyl acetate	5.9	U
108-87-2	Methylcyclohexane	5.9	U

09/11/13

mw-03

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FD-082913-MW

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-02B
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4375.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/30/2013
% Moisture: not dec. 17 Date Analyzed: 09/11/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

Q1594
10/11/13

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-01C
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M4184.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 13 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
67-64-1	Acetone	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
78-93-3	2-Butanone	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
71-43-2	Benzene	5.2	U
79-01-6	Trichloroethene	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	5.2	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	5.2	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
100-41-4	Ethylbenzene	5.2	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-01C
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M4184.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 13 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
98-06-6	tert-Butylbenzene	5.2	U
95-63-6	1,2,4-Trimethylbenzene	5.2	U
135-98-8	sec-Butylbenzene	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
104-51-8	n-Butylbenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
123-91-1	1,4-Dioxane	100	U ~~5~~ R
110-82-7	Cyclohexane	5.2	U
79-20-9	Methyl acetate	5.2	U
108-87-2	Methylcyclohexane	5.2	U

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-01C
Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M4184.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 13 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-02C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4185.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 17 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
78-93-3	2-Butanone	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
100-41-4	Ethylbenzene	5.8	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-02C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4185.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 17 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
123-91-1	1,4-Dioxane	120	U
110-82-7	Cyclohexane	5.8	U
79-20-9	Methyl acetate	5.8	U
108-87-2	Methylcyclohexane	5.8	U

Handwritten: 0.108 03/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-02C
Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M4185.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 17 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

SS-02

EPA SAMPLE NO.

FD-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-08C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M4190.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 18 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
67-64-1	Acetone	6.1	U
75-15-0	Carbon disulfide	6.1	U
75-09-2	Methylene chloride	6.1	U
156-60-5	trans-1,2-Dichloroethene	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
78-93-3	2-Butanone	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
71-43-2	Benzene	6.1	U
79-01-6	Trichloroethene	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-pentanone	6.1	U
108-88-3	Toluene	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
591-78-6	2-Hexanone	6.1	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

88-02

EPA SAMPLE NO.

FD-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-08C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M4190.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 18 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.1	U
95-47-6	o-Xylene	6.1	U
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
103-65-1	n-Propylbenzene	6.1	U
108-67-8	1,3,5-Trimethylbenzene	6.1	U
98-06-6	tert-Butylbenzene	6.1	U
95-63-6	1,2,4-Trimethylbenzene	6.1	U
135-98-8	sec-Butylbenzene	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
104-51-8	n-Butylbenzene	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
123-91-1	1,4-Dioxane	120	U
110-82-7	Cyclohexane	6.1	U
79-20-9	Methyl acetate	6.1	U
108-87-2	Methylcyclohexane	6.1	U

R

10/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SS-02

EPA SAMPLE NO.

FD-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-08C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M4190.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 18 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-03C
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M4186.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 31 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	6.8	U
74-87-3	Chloromethane	6.8	U
75-01-4	Vinyl chloride	6.8	U
74-83-9	Bromomethane	6.8	U
75-00-3	Chloroethane	6.8	U
75-69-4	Trichlorofluoromethane	6.8	U
75-35-4	1,1-Dichloroethene	6.8	U
67-64-1	Acetone	6.8	U
75-15-0	Carbon disulfide	6.8	U
75-09-2	Methylene chloride	6.8	U
156-60-5	trans-1,2-Dichloroethene	6.8	U
1634-04-4	Methyl tert-butyl ether	6.8	U
75-34-3	1,1-Dichloroethane	6.8	U
78-93-3	2-Butanone	6.8	U
156-59-2	cis-1,2-Dichloroethene	6.8	U
74-97-5	Bromochloromethane	6.8	U
67-66-3	Chloroform	6.8	U
71-55-6	1,1,1-Trichloroethane	6.8	U
56-23-5	Carbon tetrachloride	6.8	U
107-06-2	1,2-Dichloroethane	6.8	U
71-43-2	Benzene	6.8	U
79-01-6	Trichloroethene	6.8	U
78-87-5	1,2-Dichloropropane	6.8	U
75-27-4	Bromodichloromethane	6.8	U
10061-01-5	cis-1,3-Dichloropropene	6.8	U
108-10-1	4-Methyl-2-pentanone	6.8	U
108-88-3	Toluene	6.8	U
10061-02-6	trans-1,3-Dichloropropene	6.8	U
79-00-5	1,1,2-Trichloroethane	6.8	U
127-18-4	Tetrachloroethene	6.8	U
591-78-6	2-Hexanone	6.8	U
124-48-1	Dibromochloromethane	6.8	U
106-93-4	1,2-Dibromoethane	6.8	U
108-90-7	Chlorobenzene	6.8	U
100-41-4	Ethylbenzene	6.8	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-03C
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M4186.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 31 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
179601-23-1	m,p-Xylene	6.8	U
95-47-6	o-Xylene	6.8	U
100-42-5	Styrene	6.8	U
75-25-2	Bromoform	6.8	U
98-82-8	Isopropylbenzene	6.8	U
79-34-5	1,1,2,2-Tetrachloroethane	6.8	U
103-65-1	n-Propylbenzene	6.8	U
108-67-8	1,3,5-Trimethylbenzene	6.8	U
98-06-6	tert-Butylbenzene	6.8	U
95-63-6	1,2,4-Trimethylbenzene	6.8	U
135-98-8	sec-Butylbenzene	6.8	U
541-73-1	1,3-Dichlorobenzene	6.8	U
106-46-7	1,4-Dichlorobenzene	6.8	U
104-51-8	n-Butylbenzene	6.8	U
95-50-1	1,2-Dichlorobenzene	6.8	U
96-12-8	1,2-Dibromo-3-chloropropane	6.8	U
120-82-1	1,2,4-Trichlorobenzene	6.8	U
87-61-6	1,2,3-Trichlorobenzene	6.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.8	U
123-91-1	1,4-Dioxane	140	U
110-82-7	Cyclohexane	6.8	U
79-20-9	Methyl acetate	6.8	U
108-87-2	Methylcyclohexane	6.8	U

R

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-03C
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M4186.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 31 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-04C
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M4187.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 13 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.1	U
74-87-3	Chloromethane	5.1	U
75-01-4	Vinyl chloride	5.1	U
74-83-9	Bromomethane	5.1	U
75-00-3	Chloroethane	5.1	U
75-69-4	Trichlorofluoromethane	5.1	U
75-35-4	1,1-Dichloroethene	5.1	U
67-64-1	Acetone	5.1	U
75-15-0	Carbon disulfide	5.1	U
75-09-2	Methylene chloride	5.1	U
156-60-5	trans-1,2-Dichloroethene	5.1	U
1634-04-4	Methyl tert-butyl ether	5.1	U
75-34-3	1,1-Dichloroethane	5.1	U
78-93-3	2-Butanone	5.1	U
156-59-2	cis-1,2-Dichloroethene	5.1	U
74-97-5	Bromochloromethane	5.1	U
67-66-3	Chloroform	5.1	U
71-55-6	1,1,1-Trichloroethane	5.1	U
56-23-5	Carbon tetrachloride	5.1	U
107-06-2	1,2-Dichloroethane	5.1	U
71-43-2	Benzene	5.1	U
79-01-6	Trichloroethene	5.1	U
78-87-5	1,2-Dichloropropane	5.1	U
75-27-4	Bromodichloromethane	5.1	U
10061-01-5	cis-1,3-Dichloropropene	5.1	U
108-10-1	4-Methyl-2-pentanone	5.1	U
108-88-3	Toluene	5.1	U
10061-02-6	trans-1,3-Dichloropropene	5.1	U
79-00-5	1,1,2-Trichloroethane	5.1	U
127-18-4	Tetrachloroethene	5.1	U
591-78-6	2-Hexanone	5.1	U
124-48-1	Dibromochloromethane	5.1	U
106-93-4	1,2-Dibromoethane	5.1	U
108-90-7	Chlorobenzene	5.1	U
100-41-4	Ethylbenzene	5.1	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-04C
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M4187.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 13 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.1	U
95-47-6	o-Xylene	5.1	U
100-42-5	Styrene	5.1	U
75-25-2	Bromoform	5.1	U
98-82-8	Isopropylbenzene	5.1	U
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U
103-65-1	n-Propylbenzene	5.1	U
108-67-8	1,3,5-Trimethylbenzene	5.1	U
98-06-6	tert-Butylbenzene	5.1	U
95-63-6	1,2,4-Trimethylbenzene	5.1	U
135-98-8	sec-Butylbenzene	5.1	U
541-73-1	1,3-Dichlorobenzene	5.1	U
106-46-7	1,4-Dichlorobenzene	5.1	U
104-51-8	n-Butylbenzene	5.1	U
95-50-1	1,2-Dichlorobenzene	5.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.1	U
120-82-1	1,2,4-Trichlorobenzene	5.1	U
87-61-6	1,2,3-Trichlorobenzene	5.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U
123-91-1	1,4-Dioxane	~~100~~ 5.1	U <i>R</i>
110-82-7	Cyclohexane	5.1	U
79-20-9	Methyl acetate	5.1	U
108-87-2	Methylcyclohexane	5.1	U

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10/1/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-04C
Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1M4187.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 13 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-05C
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M4188.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 5.5 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	6.8	
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-05C
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M4188.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 5.5 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

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10/3/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-05C
Sample wt/vol: 5.30 (g/mL) G Lab File ID: V1M4188.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 5.5 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-06C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: VLM4189.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 9.6 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
67-64-1	Acetone	5.5	U
75-15-0	Carbon disulfide	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
78-93-3	2-Butanone	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
71-43-2	Benzene	5.5	U
79-01-6	Trichloroethene	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	5.5	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-06C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M4189.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 9.6 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
98-06-6	tert-Butylbenzene	5.5	U
95-63-6	1,2,4-Trimethylbenzene	5.5	U
135-98-8	sec-Butylbenzene	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
104-51-8	n-Butylbenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
123-91-1	1,4-Dioxane	110	U
110-82-7	Cyclohexane	5.5	U
79-20-9	Methyl acetate	5.5	U
108-87-2	Methylcyclohexane	5.5	U

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10/3/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-06C
Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M4189.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/27/2013
% Moisture: not dec. 9.6 Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-10C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4299.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 19 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.0	U
74-87-3	Chloromethane	6.0	U
75-01-4	Vinyl chloride	6.0	U
74-83-9	Bromomethane	6.0	U
75-00-3	Chloroethane	6.0	U
75-69-4	Trichlorofluoromethane	6.0	U
75-35-4	1,1-Dichloroethene	6.0	U
67-64-1	Acetone	6.0	U
75-15-0	Carbon disulfide	6.0	U
75-09-2	Methylene chloride	6.0	U
156-60-5	trans-1,2-Dichloroethene	6.0	U
1634-04-4	Methyl tert-butyl ether	6.0	U
75-34-3	1,1-Dichloroethane	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
74-97-5	Bromochloromethane	6.0	U
67-66-3	Chloroform	6.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
56-23-5	Carbon tetrachloride	6.0	U
107-06-2	1,2-Dichloroethane	6.0	U
71-43-2	Benzene	6.0	U
79-01-6	Trichloroethene	6.0	U
78-87-5	1,2-Dichloropropane	6.0	U
75-27-4	Bromodichloromethane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
108-10-1	4-Methyl-2-pentanone	6.0	U
108-88-3	Toluene	6.0	U
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
127-18-4	Tetrachloroethene	6.0	U
591-78-6	2-Hexanone	6.0	U 5
124-48-1	Dibromochloromethane	6.0	U
106-93-4	1,2-Dibromoethane	6.0	U
108-90-7	Chlorobenzene	6.0	U
100-41-4	Ethylbenzene	6.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-10C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4299.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 19 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.0	U
95-47-6	o-Xylene	6.0	U
100-42-5	Styrene	6.0	U
75-25-2	Bromoform	6.0	U
98-82-8	Isopropylbenzene	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
103-65-1	n-Propylbenzene	6.0	U
108-67-8	1,3,5-Trimethylbenzene	6.0	U
98-06-6	tert-Butylbenzene	6.0	U
95-63-6	1,2,4-Trimethylbenzene	6.0	U
135-98-8	sec-Butylbenzene	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
104-51-8	n-Butylbenzene	6.0	U
95-50-1	1,2-Dichlorobenzene	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U
123-91-1	1,4-Dioxane	120	U
110-82-7	Cyclohexane	6.0	U
79-20-9	Methyl acetate	6.0	U
108-87-2	Methylcyclohexane	6.0	U

R

Handwritten signature and date 10/1/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-10C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4299.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 19 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-11C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4300.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 21 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.2	U
74-87-3	Chloromethane	6.2	U
75-01-4	Vinyl chloride	6.2	U
74-83-9	Bromomethane	6.2	U
75-00-3	Chloroethane	6.2	U
75-69-4	Trichlorofluoromethane	6.2	U
75-35-4	1,1-Dichloroethene	6.2	U
67-64-1	Acetone	6.2	U
75-15-0	Carbon disulfide	6.2	U
75-09-2	Methylene chloride	6.2	U
156-60-5	trans-1,2-Dichloroethene	6.2	U
1634-04-4	Methyl tert-butyl ether	6.2	U
75-34-3	1,1-Dichloroethane	6.2	U
78-93-3	2-Butanone	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
74-97-5	Bromochloromethane	6.2	U
67-66-3	Chloroform	6.2	U
71-55-6	1,1,1-Trichloroethane	6.2	U
56-23-5	Carbon tetrachloride	6.2	U
107-06-2	1,2-Dichloroethane	6.2	U
71-43-2	Benzene	6.2	U
79-01-6	Trichloroethene	2.9	J
78-87-5	1,2-Dichloropropane	6.2	U
75-27-4	Bromodichloromethane	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
108-10-1	4-Methyl-2-pentanone	6.2	U
108-88-3	Toluene	6.2	U
10061-02-6	trans-1,3-Dichloropropene	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
127-18-4	Tetrachloroethene	6.2	U
591-78-6	2-Hexanone	6.2	U-3
124-48-1	Dibromochloromethane	6.2	U
106-93-4	1,2-Dibromoethane	6.2	U
108-90-7	Chlorobenzene	6.2	U
100-41-4	Ethylbenzene	6.2	U

Handwritten signature and date: 10/13

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-11C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4300.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 21 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.2	U
95-47-6	o-Xylene	6.2	U
100-42-5	Styrene	6.2	U
75-25-2	Bromoform	6.2	U
98-82-8	Isopropylbenzene	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
103-65-1	n-Propylbenzene	6.2	U
108-67-8	1,3,5-Trimethylbenzene	6.2	U
98-06-6	tert-Butylbenzene	6.2	U
95-63-6	1,2,4-Trimethylbenzene	6.2	U
135-98-8	sec-Butylbenzene	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
104-51-8	n-Butylbenzene	6.2	U
95-50-1	1,2-Dichlorobenzene	6.2	U
96-12-8	1,2-Dibromo-3-chloropropane	6.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U
123-91-1	1,4-Dioxane	120	U
110-82-7	Cyclohexane	6.2	U
79-20-9	Methyl acetate	6.2	U
108-87-2	Methylcyclohexane	6.2	U

Handwritten signature and date 9/3/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-11C
Sample wt/vol: 5.10 (g/mL) G Lab File ID: V1M4300.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/29/2013
% Moisture: not dec. 21 Date Analyzed: 09/10/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-11A
Sample wt/vol: 15.7 (g/mL) G Lab File ID: S3I7845.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 4.3 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl) ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-11A
Sample wt/vol: 15.7 (g/mL) G Lab File ID: S3I7845.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 4.3 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	91	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
92-52-4	1,1'-Biphenyl	330	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
58-90-2	2,3,4,6-Tetrachlorophenol	330	U
98-86-2	Acetophenone	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
105-60-2	Caprolactam	330	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CC-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-11A
Sample wt/vol: 15.7 (g/mL) G Lab File ID: S3I7845.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 4.3 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown (1.96607)	1.966	1100	J
02	Unknown (2.33467)	2.335	640	J
03	Unknown (2.87957)	2.880	790	J
04	Unknown (4.41810)	4.418	500	J
05	⁵⁷⁻¹⁰⁻³ n-Hexadecanoic acid	8.345	600	NJ
06	¹¹²⁻⁸⁴⁻⁵ 13-Docosenamide, (Z)-	10.722	770	NJ
07	Unknown (10.80730)	10.807	370	J
08	Unknown (11.14385)	11.144	280	J
09	Unknown (11.32013)	11.320	470	J
10	Unknown (11.37890)	11.379	490	J
11	Unknown (11.52848)	11.528	290	J
12	Unknown (11.58190)	11.582	280	J
13	Unknown (11.69943)	11.699	400	J

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-12A
Sample wt/vol: 15.3 (g/mL) G Lab File ID: S3I7848.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 7.8 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-12A
Sample wt/vol: 15.3 (g/mL) G Lab File ID: S3I7848.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 7.8 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
100-01-6	4-Nitroaniline	710	U	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U	U
86-30-6	N-Nitrosodiphenylamine	350	U	U
101-55-3	4-Bromophenyl-phenylether	350	U	U
118-74-1	Hexachlorobenzene	350	U	U
87-86-5	Pentachlorophenol	710	U	U
85-01-8	Phenanthrene	350	U	U
120-12-7	Anthracene	350	U	U
86-74-8	Carbazole	350	U	U
84-74-2	Di-n-butylphthalate	98	J	J
206-44-0	Fluoranthene	350	U	U
129-00-0	Pyrene	350	U	U
85-68-7	Butylbenzylphthalate	350	U	U
91-94-1	3,3'-Dichlorobenzidine	350	U	U
56-55-3	Benzo(a)anthracene	350	U	U
218-01-9	Chrysene	350	U	U
117-81-7	Bis(2-ethylhexyl)phthalate	350	U	U
117-84-0	Di-n-octylphthalate	350	U	U
205-99-2	Benzo(b)fluoranthene	350	U	U
207-08-9	Benzo(k)fluoranthene	350	U	U
50-32-8	Benzo(a)pyrene	350	U	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U	U
53-70-3	Dibenzo(a,h)anthracene	350	U	U
191-24-2	Benzo(g,h,i)perylene	350	U	U
92-52-4	1,1'-Biphenyl	350	U	U
95-94-3	1,2,4,5-Tetrachlorobenzene	350	U	U
58-90-2	2,3,4,6-Tetrachlorophenol	350	U	U
98-86-2	Acetophenone	350	U	U
1912-24-9	Atrazine	350	U	U
100-52-7	Benzaldehyde	350	U	U
105-60-2	Caprolactam	350	U	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CC-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-12A
Sample wt/vol: 15.3 (g/mL) G Lab File ID: S3I7848.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 7.8 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.94805)	1.948	520	J
02		Unknown (2.32200)	2.322	290	J
03	57-10-3	n-Hexadecanoic acid	8.343	660	NJ
04	112-84-5	13-Docosenamide, (Z)-	10.720	630	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-13A
Sample wt/vol: 15.6 (g/mL) G Lab File ID: S3I7849.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 3.4 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-13A
Sample wt/vol: 15.6 (g/mL) G Lab File ID: S3I7849.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 3.4 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	93	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
92-52-4	1,1'-Biphenyl	330	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
58-90-2	2,3,4,6-Tetrachlorophenol	330	U
98-86-2	Acetophenone	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
105-60-2	Caprolactam	330	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CC-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-13A
Sample wt/vol: 15.6 (g/mL) G Lab File ID: S3I7849.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 3.4 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.84595)	1.846	1300	J
02		Unknown (1.95280)	1.953	980	J
03		Unknown (2.32675)	2.327	840	J
04		Unknown (2.87698)	2.877	890	J
05	3658-77-3	2,5-Dimethyl-4-hydroxy-3(2H)	2.978	380	NJ
06	57-10-3	n-Hexadecanoic acid	8.347	580	NJ
07	301-02-0	9-Octadecenamide, (Z)-	10.719	680	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-14A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7850.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 8.1 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	Bis(2-chloroethyl) ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-14A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7850.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 8.1 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
100-01-6	4-Nitroaniline	710	U	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U	U
86-30-6	N-Nitrosodiphenylamine	350	U	U
101-55-3	4-Bromophenyl-phenylether	350	U	U
118-74-1	Hexachlorobenzene	350	U	U
87-86-5	Pentachlorophenol	710	U	U
85-01-8	Phenanthrene	350	U	U
120-12-7	Anthracene	350	U	U
86-74-8	Carbazole	350	U	U
84-74-2	Di-n-butylphthalate	88	J	J
206-44-0	Fluoranthene	350	U	U
129-00-0	Pyrene	350	U	U
85-68-7	Butylbenzylphthalate	350	U	U
91-94-1	3,3'-Dichlorobenzidine	350	U	U
56-55-3	Benzo(a)anthracene	350	U	U
218-01-9	Chrysene	350	U	U
117-81-7	Bis(2-ethylhexyl)phthalate	140	J	J
117-84-0	Di-n-octylphthalate	350	U	U
205-99-2	Benzo(b)fluoranthene	350	U	U
207-08-9	Benzo(k)fluoranthene	350	U	U
50-32-8	Benzo(a)pyrene	350	U	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U	U
53-70-3	Dibenzo(a,h)anthracene	350	U	U
191-24-2	Benzo(g,h,i)perylene	350	U	U
92-52-4	1,1'-Biphenyl	350	U	U
95-94-3	1,2,4,5-Tetrachlorobenzene	350	U	U
58-90-2	2,3,4,6-Tetrachlorophenol	350	U	U
98-86-2	Acetophenone	350	U	U
1912-24-9	Atrazine	350	U	U
100-52-7	Benzaldehyde	350	U	U
105-60-2	Caprolactam	350	U	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CC-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-14A
 Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7850.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 8.1 Decanted: (Y/N) N Date Received: 08/30/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.84690)	1.847	1000	J
02		Unknown (1.95373)	1.954	1300	J
03		Unknown (2.32770)	2.328	400	J
04		Unknown (2.88328)	2.883	1400	J
05		Unknown (2.97943)	2.979	350	J
06	57-10-3	n-Hexadecanoic acid	8.348	630	NJ
07	112-84-5	13-Docosenamide, (Z)-	10.752	640	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-082913-CC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-16A
Sample wt/vol: 15.2 (g/mL) G Lab File ID: S3I7852.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 10 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	Bis(2-chloroethyl) ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U

CC-04

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-082913-CC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-16A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S3I7852.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 08/30/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	120	J
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	Bis(2-ethylhexyl)phthalate	320	J
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U
92-52-4	1,1'-Biphenyl	360	U
95-94-3	1,2,4,5-Tetrachlorobenzene	360	U
58-90-2	2,3,4,6-Tetrachlorophenol	360	U
98-86-2	Acetophenone	360	U
1912-24-9	Atrazine	360	U
100-52-7	Benzaldehyde	360	U
105-60-2	Caprolactam	360	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

cc-04
EPA SAMPLE NO.

FD-082913-CC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-16A
Sample wt/vol: 15.2 (g/mL) G Lab File ID: S3I7852.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 10 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.95345)	1.953	1100	J
02	57-10-3	n-Hexadecanoic acid	8.348	970	NJ
03	57-11-4	Octadecanoic acid	8.984	430	NJ
04		Unknown (10.72522)	10.725	760	J

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-15A
Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I7851.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 3.8 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	Bis(2-chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
111-91-1	Bis(2-chloroethoxy)methane	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	700	U
100-02-7	4-Nitrophenol	700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-15A
Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I7851.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 3.8 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	700	U
534-52-1	4,6-Dinitro-2-methylphenol	700	U
86-30-6	N-Nitrosodiphenylamine	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	94	J
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	Bis(2-ethylhexyl)phthalate	180	J
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U
92-52-4	1,1'-Biphenyl	340	U
95-94-3	1,2,4,5-Tetrachlorobenzene	340	U
58-90-2	2,3,4,6-Tetrachlorophenol	340	U
98-86-2	Acetophenone	340	U
1912-24-9	Atrazine	340	U
100-52-7	Benzaldehyde	340	U
105-60-2	Caprolactam	340	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CC-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-15A
Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I7851.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 3.8 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	629-92-5	Nonadecane (8.13420)	8.134	430	NJ
02	57-10-3	n-Hexadecanoic acid	8.348	560	NJ
03	112-95-8	Eicosane (8.46542)	8.465	590	NJ
04	1560-92-5	Hexadecane, 2-methyl-	8.700	410	NJ
05	593-45-3	Octadecane	8.791	820	NJ
06		Unknown (8.90882)	8.909	700	J
07		Unknown (9.20797)	9.208	1100	J
08	629-92-5	Nonadecane (9.39495)	9.395	910	NJ
09	112-95-8	Eicosane (9.49645)	9.496	490	NJ
10	638-36-8	Hexadecane, 2,6,10,14-tetram	9.683	890	NJ
11		Unknown (9.77958)	9.780	1000	J
12	35599-77-0	Tridecane, 1-iodo-	9.961	590	NJ
13	13475-75-7	Pentadecane, 8-hexyl-	10.239	1600	NJ
14	13475-76-8	Docosane, 11-butyl-	10.330	1000	NJ
15	593-49-7	Heptacosane	10.517	1100	NJ
16	629-93-6	Octadecane, 1-iodo-	10.602	1400	NJ
17	301-02-0	9-Octadecenamide, (Z)-	10.736	770	NJ
18	630-02-4	Octacosane	10.784	710	NJ
19	55282-14-9	Docosane, 9-butyl-	10.875	980	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-03A
Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B5691.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U

Handwritten signature
10/8/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-03A
Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B5691.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U J
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U J
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	160	J
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U
92-52-4	1,1'-Biphenyl	380	U
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U
58-90-2	2,3,4,6-Tetrachlorophenol	380	U
98-86-2	Acetophenone	380	U
1912-24-9	Atrazine	380	U
100-52-7	Benzaldehyde	380	U
105-60-2	Caprolactam	380	U

Handwritten signature and date: 10/18/13

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-03A
Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B5691.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	4.369	770	J
02	112-84-5	13-Docosenamide, (Z)-	12.077	1300	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-04A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B5692.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 18 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	<u>Q</u>
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U ⁵
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	820	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	820	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	820	U
100-02-7	4-Nitrophenol	820	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U

Handwritten: 10/8/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-04A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B5692.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 18 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	820	U
534-52-1	4,6-Dinitro-2-methylphenol	820	U <i>J</i>
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	820	U <i>J</i>
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	180	J
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	120	J
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	85	J
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	160	J
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	180	J
92-52-4	1,1'-Biphenyl	400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	400	U
58-90-2	2,3,4,6-Tetrachlorophenol	400	U
98-86-2	Acetophenone	400	U
1912-24-9	Atrazine	400	U
100-52-7	Benzaldehyde	400	U
105-60-2	Caprolactam	400	U

Handwritten: 01/18/13

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-04A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B5692.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 18 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (4.38068)	4.381	2700	J
02		Unknown (4.69795)	4.698	2500	J
03		Unknown (5.14450)	5.144	2000	J
04		Unknown (10.82618)	10.826	450	J
05	54986-63-9	Benzo[c]phenanthrene, 5,8-di	11.960	380	NJ
06		Unknown (12.08942)	12.089	1500	J
07	593-49-7	Heptacosane	13.453	340	NJ
08	629-78-7	Heptadecane	14.346	330	NJ
09		Unknown (15.18585)	15.186	340	J

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-05A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B5693.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl) ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	780	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	780	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	780	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	780	U-5
100-02-7	4-Nitrophenol	780	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U

Handwritten signature and date: 10/18/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-05A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B5693.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	780	U
534-52-1	4,6-Dinitro-2-methylphenol	780	U <i>5</i>
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	780	U <i>5</i>
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	190	J
206-44-0	Fluoranthene	170	J
129-00-0	Pyrene	170	J
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	110	J
218-01-9	Chrysene	110	J
117-81-7	Bis(2-ethylhexyl)phthalate	170	J
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	130	J
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	94	J
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	80	J
92-52-4	1,1'-Biphenyl	380	U
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U
58-90-2	2,3,4,6-Tetrachlorophenol	380	U
98-86-2	Acetophenone	380	U
1912-24-9	Atrazine	380	U
100-52-7	Benzaldehyde	380	U
105-60-2	Caprolactam	380	U

CLP
10/13

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-05A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: S6B5693.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (4.38067)	4.381	2300	J
02		Unknown (4.69795)	4.698	2200	J
03		Unknown (5.15037)	5.150	1800	J
04	295-65-8	Cyclohexadecane	9.528	380	NJ
05	112-84-5	13-Docosenamide, (Z)-	12.084	1500	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-06A
Sample wt/vol: 15.5 (g/mL) G Lab File ID: S6B5694.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	<u>Q</u>
108-95-2	Phenol	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	740	U-3
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-06A
Sample wt/vol: 15.5 (g/mL) G Lab File ID: S6B5694.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U <i>5</i>
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	740	U <i>5</i>
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	180	J
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	Bis(2-ethylhexyl)phthalate	400	
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U
92-52-4	1,1'-Biphenyl	360	U
95-94-3	1,2,4,5-Tetrachlorobenzene	360	U
58-90-2	2,3,4,6-Tetrachlorophenol	360	U
98-86-2	Acetophenone	360	U
1912-24-9	Atrazine	360	U
100-52-7	Benzaldehyde	360	U
105-60-2	Caprolactam	360	U

QUG
10/18/13

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-06A
Sample wt/vol: 15.5 (g/mL) G Lab File ID: S6B5694.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (4.38057)	4.381	2400	J
02		Unknown (4.69198)	4.692	1000	J
03		Unknown (5.14440)	5.144	1000	J
04		Unknown (10.82607)	10.826	350	J
05	112-84-5	13-Docosenamide, (Z)-	12.089	1500	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-07A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B5695.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U

Handwritten signature
10/19/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-07A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B5695.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U <i>S</i>
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U <i>S</i>
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	170	J
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	Bis(2-ethylhexyl)phthalate	77	J
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U
92-52-4	1,1'-Biphenyl	380	U
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U
58-90-2	2,3,4,6-Tetrachlorophenol	380	U
98-86-2	Acetophenone	380	U
1912-24-9	Atrazine	380	U
100-52-7	Benzaldehyde	380	U
105-60-2	Caprolactam	380	U

OK
10/8/13

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-07A
 Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B5695.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 15 Decanted: (Y/N) N Date Received: 08/30/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (4.27473)	4.275	630	J
02		Unknown (4.38050)	4.380	2900	J
03		Unknown (4.69778)	4.698	2000	J
04		Unknown (5.14432)	5.144	2100	J
05	6971-40-0	17-Pentatriacontene	10.832	390	NJ
06	301-02-0	9-Octadecenamide, (Z)-	12.089	1400	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-08A
Sample wt/vol: 15.6 (g/mL) G Lab File ID: S6B5696.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	750	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	750	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	750	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	750	U
100-02-7	4-Nitrophenol	750	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U

Handwritten signature and date: 10/18/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-08A
Sample wt/vol: 15.6 (g/mL) G Lab File ID: S6B5696.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	750	U
534-52-1	4,6-Dinitro-2-methylphenol	750	U <i>S</i>
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	750	U <i>S</i>
85-01-8	Phenanthrene	1300	
120-12-7	Anthracene	75	J
86-74-8	Carbazole	130	J
84-74-2	Di-n-butylphthalate	150	J
206-44-0	Fluoranthene	1300	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	J
218-01-9	Chrysene	710	
117-81-7	Bis(2-ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	700	
207-08-9	Benzo(k)fluoranthene	340	J
50-32-8	Benzo(a)pyrene	420	
193-39-5	Indeno(1,2,3-cd)pyrene	330	J
53-70-3	Dibenzo(a,h)anthracene	100	J
191-24-2	Benzo(g,h,i)perylene	350	J
92-52-4	1,1'-Biphenyl	370	U
95-94-3	1,2,4,5-Tetrachlorobenzene	370	U
58-90-2	2,3,4,6-Tetrachlorophenol	370	U
98-86-2	Acetophenone	370	U
1912-24-9	Atrazine	370	U
100-52-7	Benzaldehyde	370	U
105-60-2	Caprolactam	370	U

QUG
10/1/13

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-08A
Sample wt/vol: 15.6 (g/mL) G Lab File ID: S6B5696.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (4.37465)	4.375	2000	J
02		Unknown (4.69192)	4.692	2100	J
03		Unknown (5.14435)	5.144	1800	J
04	84-65-1	9,10-Anthracenedione	9.339	380	NJ
05	479-79-8	11H-Benzo[a]fluoren-11-one	10.826	450	NJ
06	112-84-5	13-Docosenamide, (Z)-	12.089	1400	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

GS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1607-01A
Sample wt/vol: 15.5 (g/mL) G Lab File ID: S3I7560.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 21 Decanted: (Y/N) N Date Received: 08/31/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/03/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/04/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U 5
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U 5
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	820	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	820	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	820	U
100-02-7	4-Nitrophenol	820	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U 5
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

GS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1607-01A
Sample wt/vol: 15.5 (g/mL) G Lab File ID: S3I7560.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 21 Decanted: (Y/N) N Date Received: 08/31/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/03/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/04/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
100-01-6	4-Nitroaniline	820	U
534-52-1	4,6-Dinitro-2-methylphenol	820	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	820	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	87	J
129-00-0	Pyrene	96	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	J
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U
92-52-4	1,1'-Biphenyl	410	U
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U
58-90-2	2,3,4,6-Tetrachlorophenol	410	U
98-86-2	Acetophenone	410	U
1912-24-9	Atrazine	410	U
100-52-7	Benzaldehyde	410	U
105-60-2	Caprolactam	410	U

OK
9/10/13

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

GS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1607-01A
Sample wt/vol: 15.5 (g/mL) G Lab File ID: S3I7560.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 21 Decanted: (Y/N) N Date Received: 08/31/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/03/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/04/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown	2.116	710	J
02	112-84-5	13-Docosenamide, (Z)-	10.904	370	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09A
Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B5697.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 20 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	820	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	820	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	820	U 5
100-02-7	4-Nitrophenol	820	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U

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10/8/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09A
Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B5697.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 20 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	820	U
534-52-1	4,6-Dinitro-2-methylphenol	820	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	820	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	160	J
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	130	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	89	J
218-01-9	Chrysene	90	J
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U
92-52-4	1,1'-Biphenyl	400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	400	U
58-90-2	2,3,4,6-Tetrachlorophenol	400	U
98-86-2	Acetophenone	400	U
1912-24-9	Atrazine	400	U
100-52-7	Benzaldehyde	400	U
105-60-2	Caprolactam	400	U

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09A
Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B5697.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 20 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (4.27472)	4.275	520	J
02		Unknown (4.38047)	4.380	2600	J
03		Unknown (4.69188)	4.692	2200	J
04		Unknown (5.15017)	5.150	480	J
05	112-84-5	13-Docosenamide, (Z)-	12.077	1300	NJ

²EPA-designated Registry Number.

GS-08

 1D - FORM I SV-1
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-082913-GS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-10A
 Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B5698.D
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 23 Decanted: (Y/N) N Date Received: 08/30/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl) ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	850	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	850	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	850	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	850	U-5
100-02-7	4-Nitrophenol	850	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

GS-08

EPA SAMPLE NO.

FD-082913-GS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-10A
Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B5698.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 23 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	850	U
534-52-1	4,6-Dinitro-2-methylphenol	850	U.S
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	850	U.S
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	130	J
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U
92-52-4	1,1'-Biphenyl	420	U
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U
58-90-2	2,3,4,6-Tetrachlorophenol	420	U
98-86-2	Acetophenone	420	U
1912-24-9	Atrazine	420	U
100-52-7	Benzaldehyde	420	U
105-60-2	Caprolactam	420	U

Handwritten signature and date 10/13

GS-08

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FD-082913-GS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-10A
Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B5698.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 23 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (4.37462)	4.375	3000	J
02		Unknown (4.68603)	4.686	1300	J
03		Unknown (10.40883)	10.409	460	J
04	112-84-5	13-Docosenamide, (Z)-	12.078	760	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-09A
Sample wt/vol: 15.8 (g/mL) G Lab File ID: S3I7805.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/29/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	1200	
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U

Handwritten signature and date: 10/31/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-09A
Sample wt/vol: 15.8 (g/mL) G Lab File ID: S3I7805.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/29/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	180	J
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U
92-52-4	1,1'-Biphenyl	360	U
95-94-3	1,2,4,5-Tetrachlorobenzene	360	U
58-90-2	2,3,4,6-Tetrachlorophenol	360	U
98-86-2	Acetophenone	360	U
1912-24-9	Atrazine	360	U
100-52-7	Benzaldehyde	360	U
105-60-2	Caprolactam	360	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-09A
 Sample wt/vol: 15.8 (g/mL) G Lab File ID: S3I7805.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 14 Decanted: (Y/N) N Date Received: 08/29/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.99225)	1.992	3000	J
02		Unknown (2.28605)	2.286	690	J
03		Unknown (2.92712)	2.927	1900	J
04		Unknown (2.99122)	2.991	350	J
05	57-10-3	n-Hexadecanoic acid	8.371	540	NJ
06	112-84-5	13-Docosenamide, (Z)-	10.721	1500	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-12A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7808.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15 Decanted: (Y/N) N Date Received: 08/29/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	1300	
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U

Handwritten signature and date 10/31/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-12A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7808.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15 Decanted: (Y/N) N Date Received: 08/29/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
100-01-6	4-Nitroaniline	770		U
534-52-1	4,6-Dinitro-2-methylphenol	770		U
86-30-6	N-Nitrosodiphenylamine	380		U
101-55-3	4-Bromophenyl-phenylether	380		U
118-74-1	Hexachlorobenzene	380		U
87-86-5	Pentachlorophenol	770		U
85-01-8	Phenanthrene	380		U
120-12-7	Anthracene	380		U
86-74-8	Carbazole	380		U
84-74-2	Di-n-butylphthalate	170		J
206-44-0	Fluoranthene	380		U
129-00-0	Pyrene	380		U
85-68-7	Butylbenzylphthalate	380		U
91-94-1	3,3'-Dichlorobenzidine	380		U
56-55-3	Benzo(a)anthracene	380		U
218-01-9	Chrysene	380		U
117-81-7	Bis(2-ethylhexyl)phthalate	380		U
117-84-0	Di-n-octylphthalate	380		U
205-99-2	Benzo(b)fluoranthene	380		U
207-08-9	Benzo(k)fluoranthene	380		U
50-32-8	Benzo(a)pyrene	380		U
193-39-5	Indeno(1,2,3-cd)pyrene	380		U
53-70-3	Dibenzo(a,h)anthracene	380		U
191-24-2	Benzo(g,h,i)perylene	380		U
92-52-4	1,1'-Biphenyl	380		U
95-94-3	1,2,4,5-Tetrachlorobenzene	380		U
58-90-2	2,3,4,6-Tetrachlorophenol	380		U
98-86-2	Acetophenone	380		U
1912-24-9	Atrazine	380		U
100-52-7	Benzaldehyde	380		U
105-60-2	Caprolactam	380		U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-12A

Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7808.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 08/29/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.99002)	1.990	1800	J
02		Unknown (2.28383)	2.284	710	J
03		Unknown (2.93023)	2.930	1400	J
04	57-10-3	n-Hexadecanoic acid	8.374	480	NJ
05	301-02-0	9-Octadecenamide, (Z)-	10.767	1300	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-01A
 Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B5690.D
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 16 Decanted: (Y/N) N Date Received: 08/30/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	<u>Q</u>
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl) ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy) methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	790	U-1
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U

Handwritten signature
10/18/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-01A
Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B5690.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 16 Decanted: (Y/N) N Date Received: 08/30/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U 3
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U 3
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	140	J
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl)phthalate	150	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U
92-52-4	1,1'-Biphenyl	390	U
95-94-3	1,2,4,5-Tetrachlorobenzene	390	U
58-90-2	2,3,4,6-Tetrachlorophenol	390	U
98-86-2	Acetophenone	390	U
1912-24-9	Atrazine	390	U
100-52-7	Benzaldehyde	390	U
105-60-2	Caprolactam	390	U

01/18/13

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-01A
 Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B5690.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 16 Decanted: (Y/N) N Date Received: 08/30/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/17/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (4.37467)	4.375	2000	J
02		Unknown (4.69195)	4.692	810	J
03		Unknown (5.14437)	5.144	530	J
04	112-84-5	13-Docosenamide, (Z)-	12.083	1300	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-01A
Sample wt/vol: 15.7 (g/mL) G Lab File ID: S3I7796.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-01A
Sample wt/vol: 15.7 (g/mL) G Lab File ID: S3I7796.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	240	J
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	160	J
206-44-0	Fluoranthene	420	
129-00-0	Pyrene	350	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	210	J
218-01-9	Chrysene	260	J
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	280	J
207-08-9	Benzo(k)fluoranthene	120	J
50-32-8	Benzo(a)pyrene	200	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	140	J
92-52-4	1,1'-Biphenyl	360	U
95-94-3	1,2,4,5-Tetrachlorobenzene	360	U
58-90-2	2,3,4,6-Tetrachlorophenol	360	U
98-86-2	Acetophenone	360	U
1912-24-9	Atrazine	360	U
100-52-7	Benzaldehyde	360	U
105-60-2	Caprolactam	360	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-01A

Sample wt/vol: 15.7 (g/mL) G Lab File ID: S3I7796.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.86965)	1.870	400	J
02		Unknown (1.97650)	1.976	1300	J
03		Unknown (2.35045)	2.350	300	J
04		Unknown (2.91138)	2.911	1200	J
05	57-10-3	n-Hexadecanoic acid	8.360	630	NJ
06	57-11-4	Octadecanoic acid	9.001	350	NJ
07	112-84-5	13-Docosenamide, (Z)-	10.796	1100	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-02A
Sample wt/vol: 15.2 (g/mL) G Lab File ID: S3I7797.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 17 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U

Handwritten: 10/3/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-02A
Sample wt/vol: 15.2 (g/mL) G Lab File ID: S3I7797.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 17 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	180	J
206-44-0	Fluoranthene	290	J
129-00-0	Pyrene	300	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	180	J
218-01-9	Chrysene	240	J
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	330	J
207-08-9	Benzo(k)fluoranthene	140	J
50-32-8	Benzo(a)pyrene	200	J
193-39-5	Indeno(1,2,3-cd)pyrene	150	J
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	140	J
92-52-4	1,1'-Biphenyl	390	U
95-94-3	1,2,4,5-Tetrachlorobenzene	390	U
58-90-2	2,3,4,6-Tetrachlorophenol	390	U
98-86-2	Acetophenone	390	U
1912-24-9	Atrazine	390	U
100-52-7	Benzaldehyde	390	U
105-60-2	Caprolactam	390	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-02A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S3I7797.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 08/27/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.97648)	1.976	1600	J
02		Unknown (2.27565)	2.276	450	J
03		Unknown (2.90602)	2.906	1000	J
04	57-10-3	n-Hexadecanoic acid	8.366	980	NJ
05	57-11-4	Octadecanoic acid	9.001	390	NJ
06	112-84-5	13-Docosenamide, (Z)-	10.823	1200	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-08A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7804.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 18 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-08A

Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7804.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 08/27/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	86	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	190	J
206-44-0	Fluoranthene	420	
129-00-0	Pyrene	390	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	270	J
218-01-9	Chrysene	300	J
117-81-7	Bis(2-ethylhexyl)phthalate	89	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	430	
207-08-9	Benzo(k)fluoranthene	160	J
50-32-8	Benzo(a)pyrene	250	J
193-39-5	Indeno(1,2,3-cd)pyrene	190	J
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	200	J
92-52-4	1,1'-Biphenyl	390	U
95-94-3	1,2,4,5-Tetrachlorobenzene	390	U
58-90-2	2,3,4,6-Tetrachlorophenol	390	U
98-86-2	Acetophenone	390	U
1912-24-9	Atrazine	390	U
100-52-7	Benzaldehyde	390	U
105-60-2	Caprolactam	390	U

SS-02

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FD-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-08A
 Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7804.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 18 Decanted: (Y/N) N Date Received: 08/27/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.87253)	1.873	420	J
02		Unknown (1.97938)	1.979	1100	J
03		Unknown (2.28388)	2.284	480	J
04		Unknown (2.93027)	2.930	1900	J
05	57-10-3	n-Hexadecanoic acid	8.374	1200	NJ
06	57-11-4	Octadecanoic acid	9.004	420	NJ
07	112-84-5	13-Docosenamide, (Z)-	10.730	1100	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-03A
Sample wt/vol: 15.5 (g/mL) G Lab File ID: S3I7798.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 31 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	460	U
111-44-4	Bis(2-chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
111-91-1	Bis(2-chloroethoxy)methane	460	U
87-68-3	Hexachlorobutadiene	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	940	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethylphthalate	460	U
208-96-8	Acenaphthylene	460	U
606-20-2	2,6-Dinitrotoluene	460	U
99-09-2	3-Nitroaniline	940	U
83-32-9	Acenaphthene	460	U
51-28-5	2,4-Dinitrophenol	940	U
100-02-7	4-Nitrophenol	940	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U 5
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	460	U

Handwritten signature and date 10/1/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-03A
Sample wt/vol: 15.5 (g/mL) G Lab File ID: S3I7798.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 31 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	940	U
534-52-1	4,6-Dinitro-2-methylphenol	940	U
86-30-6	N-Nitrosodiphenylamine	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	940	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	210	J
206-44-0	Fluoranthene	100	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	Bis(2-ethylhexyl)phthalate	130	J
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U
92-52-4	1,1'-Biphenyl	460	U
95-94-3	1,2,4,5-Tetrachlorobenzene	460	U
58-90-2	2,3,4,6-Tetrachlorophenol	460	U
98-86-2	Acetophenone	460	U
1912-24-9	Atrazine	460	U
100-52-7	Benzaldehyde	460	U
105-60-2	Caprolactam	460	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-03A
 Sample wt/vol: 15.5 (g/mL) G Lab File ID: S3I7798.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 31 Decanted: (Y/N) N Date Received: 08/27/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.86938)	1.869	600	J
02		Unknown (1.98692)	1.987	4100	J
03		Unknown (2.28073)	2.281	520	J
04		Unknown (2.80960)	2.810	630	J
05		Unknown (2.91645)	2.916	1600	J
06	57-10-3	n-Hexadecanoic acid	8.365	880	NJ
07	112-84-5	13-Docosenamide, (Z)-	10.785	1300	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-04A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7801.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	Bis(2-chloroethyl) ether	370	U
95-57-8	2-Chlorophenol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	750	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	750	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	750	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	750	U
100-02-7	4-Nitrophenol	750	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U

Handwritten signature and date 10/1/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-04A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7801.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
100-01-6	4-Nitroaniline	750	U
534-52-1	4,6-Dinitro-2-methylphenol	750	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	750	U
85-01-8	Phenanthrene	190	J
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	180	J
206-44-0	Fluoranthene	220	J
129-00-0	Pyrene	220	J
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	130	J
218-01-9	Chrysene	180	J
117-81-7	Bis(2-ethylhexyl)phthalate	96	J
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	170	J
207-08-9	Benzo(k)fluoranthene	75	J
50-32-8	Benzo(a)pyrene	120	J
193-39-5	Indeno(1,2,3-cd)pyrene	87	J
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	99	J
92-52-4	1,1'-Biphenyl	370	U
95-94-3	1,2,4,5-Tetrachlorobenzene	370	U
58-90-2	2,3,4,6-Tetrachlorophenol	370	U
98-86-2	Acetophenone	370	U
1912-24-9	Atrazine	370	U
100-52-7	Benzaldehyde	370	U
105-60-2	Caprolactam	370	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-04A
 Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7801.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.86777)	1.868	350	J
02		Unknown (1.97462)	1.975	940	J
03		Unknown (2.27912)	2.279	450	J
04		Unknown (2.92017)	2.920	1600	J
05	57-10-3	n-Hexadecanoic acid	8.369	920	NJ
06	57-11-4	Octadecanoic acid	9.000	320	NJ
07	74685-30-6	5-Eicosene, (E)-	10.511	310	NJ
08	301-02-0	9-Octadecenamide, (Z)-	10.736	850	NJ
09	83-46-5	.beta.-Sitosterol	12.739	770	NJ
10		Unknown (12.87257)	12.873	310	J
11	1058-61-3	Stigmast-4-en-3-one	13.535	370	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-05A
Sample wt/vol: 15.9 (g/mL) G Lab File ID: S3I7802.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 5.5 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U

Handwritten: 10/3/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-05A
Sample wt/vol: 15.9 (g/mL) G Lab File ID: S3I7802.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 5.5 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	95	J
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	110	J
206-44-0	Fluoranthene	180	J
129-00-0	Pyrene	180	J
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	89	J
218-01-9	Chrysene	120	J
117-81-7	Bis(2-ethylhexyl)phthalate	1400	
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	140	J
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	94	J
193-39-5	Indeno(1,2,3-cd)pyrene	74	J
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	87	J
92-52-4	1,1'-Biphenyl	330	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
58-90-2	2,3,4,6-Tetrachlorophenol	330	U
98-86-2	Acetophenone	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
105-60-2	Caprolactam	330	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-05A
 Sample wt/vol: 15.9 (g/mL) G Lab File ID: S3I7802.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 5.5 Decanted: (Y/N) N Date Received: 08/27/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	Unknown (1.87295)	1.873	980	J
02	Unknown (1.97980)	1.980	980	J
03	Unknown (2.93070)	2.931	1900	J
04	57-10-3 n-Hexadecanoic acid	8.369	630	NJ
05	112-84-5 13-Docosenamide, (Z)-	10.741	690	NJ
06	Unknown (11.26977)	11.270	320	J
07	Unknown (12.33820)	12.338	310	J
08	Unknown (12.37558)	12.376	270	J
09	Unknown (12.43435)	12.434	790	J
10	83-47-6 .gamma.-Sitosterol	12.755	1200	NJ
11	1058-61-3 Stigmast-4-en-3-one	13.546	300	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-06A
Sample wt/vol: 15.7 (g/mL) G Lab File ID: S3I7803.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 9.6 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	Bis(2-chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	Bis(2-chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U

Handwritten signature and date 10/3/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-06A
Sample wt/vol: 15.7 (g/mL) G Lab File ID: S3I7803.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 9.6 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	710	U
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	180	J
206-44-0	Fluoranthene	220	J
129-00-0	Pyrene	190	J
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	110	J
218-01-9	Chrysene	130	J
117-81-7	Bis(2-ethylhexyl)phthalate	280	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	140	J
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	110	J
193-39-5	Indeno(1,2,3-cd)pyrene	80	J
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	94	J
92-52-4	1,1'-Biphenyl	350	U
95-94-3	1,2,4,5-Tetrachlorobenzene	350	U
58-90-2	2,3,4,6-Tetrachlorophenol	350	U
98-86-2	Acetophenone	350	U
1912-24-9	Atrazine	350	U
100-52-7	Benzaldehyde	350	U
105-60-2	Caprolactam	350	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-06A
Sample wt/vol: 15.7 (g/mL) G Lab File ID: S3I7803.D
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 9.6 Decanted: (Y/N) N Date Received: 08/27/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.87255)	1.873	550	J
02		Unknown (1.97940)	1.979	980	J
03		Unknown (2.27855)	2.279	320	J
04		Unknown (2.93030)	2.930	1900	J
05	57-10-3	n-Hexadecanoic acid	8.369	650	NJ
06		Unknown (10.38257)	10.383	880	J
07	112-84-5	13-Docosenamide, (Z)-	10.724	890	NJ
08	83-46-5	.beta.-Sitosterol	12.733	1600	NJ
09	1058-61-3	Stigmast-4-en-3-one	13.524	510	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-10A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: S3I7806.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 19 Decanted: (Y/N) N Date Received: 08/29/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	820	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	820	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	820	U
100-02-7	4-Nitrophenol	820	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U

QMS
10/3/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-10A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: S3I7806.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 19 Decanted: (Y/N) N Date Received: 08/29/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	820	U
534-52-1	4,6-Dinitro-2-methylphenol	820	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	820	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	170	J
206-44-0	Fluoranthene	94	J
129-00-0	Pyrene	83	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	85	J
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U
92-52-4	1,1'-Biphenyl	400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	400	U
58-90-2	2,3,4,6-Tetrachlorophenol	400	U
98-86-2	Acetophenone	400	U
1912-24-9	Atrazine	400	U
100-52-7	Benzaldehyde	400	U
105-60-2	Caprolactam	400	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-10A
 Sample wt/vol: 15.1 (g/mL) G Lab File ID: S3I7806.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 19 Decanted: (Y/N) N Date Received: 08/29/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	79-34-5	Ethane, 1,1,2,2-tetrachloro-	1.799	440	NJ
02	110-13-4	2,5-Hexanedione	1.831	570	NJ
03		Unknown (1.98588)	1.986	1400	J
04		Unknown (2.28503)	2.285	1000	J
05		Unknown (2.92075)	2.921	960	J
06	57-10-3	n-Hexadecanoic acid	8.370	800	NJ
07	112-84-5	13-Docosenamide, (Z)-	10.763	1200	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-11A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7807.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 21 Decanted: (Y/N) N Date Received: 08/29/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	820	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	820	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	820	U
100-02-7	4-Nitrophenol	820	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U

Handwritten: 10/31/13

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-11A
Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7807.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 21 Decanted: (Y/N) N Date Received: 08/29/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	820	U
534-52-1	4,6-Dinitro-2-methylphenol	820	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	820	U
85-01-8	Phenanthrene	85	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	210	J
206-44-0	Fluoranthene	140	J
129-00-0	Pyrene	100	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	130	J
117-81-7	Bis(2-ethylhexyl)phthalate	180	J
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U
92-52-4	1,1'-Biphenyl	400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	400	U
58-90-2	2,3,4,6-Tetrachlorophenol	400	U
98-86-2	Acetophenone	400	U
1912-24-9	Atrazine	400	U
100-52-7	Benzaldehyde	400	U
105-60-2	Caprolactam	400	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-11A
 Sample wt/vol: 15.4 (g/mL) G Lab File ID: S3I7807.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 21 Decanted: (Y/N) N Date Received: 08/29/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (1.98477)	1.985	1400	J
02		Unknown (2.28392)	2.284	680	J
03		Unknown (2.94635)	2.946	1900	J
04	57-10-3	n-Hexadecanoic acid	8.374	1100	NJ
05	57-11-4	Octadecanoic acid	9.010	380	NJ
06	301-02-0	9-Octadecenamide, (Z)-	10.762	1500	NJ

²EPA-designated Registry Number.

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-11A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E6A3943F.D/E6A3943R.D

% Moisture: 4.3 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	3.4	U
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	3.4	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-12A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E6A3946F.D/E6A3946R.D
% Moisture: 7.8 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-13A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E6A3947F.D/E6A3947R.D

% Moisture: 3.4 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	3.4	U
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	3.4	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-14A
 Sample wt/vol: 30.3 (g/mL) G Lab File ID: E6A3948F.D/E6A3948R.D
 % Moisture: 8.1 Decanted: (Y/N) N Date Received: 08/30/2013
 Extraction: (Type) SONC Date Extracted: 09/11/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CE-04
EPA SAMPLE NO.

FD-082913-CC

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-16A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E6A3950F.D/E6A3950R.D
% Moisture: 10 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-15A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E6A3949F.D/E6A3949R.D

% Moisture: 3.8 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	3.4	U
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	3.4	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-07A
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E6A3939F.D/E6A3939R.D
% Moisture: 15 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	6.5	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

Handwritten: 10/9/13

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-03A
Sample wt/vol: 30.5 (g/mL) G Lab File ID: E6A3935F.D/E6A3935R.D
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-04A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E6A3936F.D/E6A3936R.D

% Moisture: 18 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-05A
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: E6A3937F.D/E6A3937R.D
 % Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
 Extraction: (Type) SONC Date Extracted: 09/11/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-06A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E6A3938F.D/E6A3938R.D

% Moisture: 12 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
319-84-6	alpha-BHC	1.9	U	
319-85-7	beta-BHC	1.9	U	
319-86-8	delta-BHC	1.9	U	
58-89-9	gamma-BHC (Lindane)	1.9	U	
76-44-8	Heptachlor	1.9	U	
309-00-2	Aldrin	1.9	U	
1024-57-3	Heptachlor epoxide	1.9	U	
959-98-8	Endosulfan I	1.9	U	
60-57-1	Dieldrin	3.8	U	
72-55-9	4,4'-DDE	3.8	U	
72-20-8	Endrin	3.8	U	
33213-65-9	Endosulfan II	3.8	U	
72-54-8	4,4'-DDD	3.8	U	
1031-07-8	Endosulfan sulfate	3.8	U	
50-29-3	4,4'-DDT	3.8	U	
72-43-5	Methoxychlor	19	U	
53494-70-5	Endrin ketone	3.8	U	
7421-93-4	Endrin aldehyde	3.8	U	
5103-71-9	alpha-Chlordane	1.9	U	
5103-74-2	gamma-Chlordane	1.9	U	
8001-35-2	Toxaphene	190	U	

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-08A
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: E6A3940F.D/E6A3940R.D
 % Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
 Extraction: (Type) SONC Date Extracted: 09/11/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1607-01A
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E6A3691F.D/E6A3691R.D
% Moisture: 21 Decanted: (Y/N) N Date Received: 08/31/2013
Extraction: (Type) SONC Date Extracted: 09/03/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/04/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E6A3941F.D/E6A3941R.D
% Moisture: 20 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

68-08

EPA SAMPLE NO.

FD-082913-GS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-10A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E6A3942F.D/E6A3942R.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-09A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E6A3785F.D/E6A3785R.D
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/29/2013
Extraction: (Type) SONC Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
319-84-6	alpha-BHC	1.9	U	
319-85-7	beta-BHC	1.9	U	
319-86-8	delta-BHC	1.9	U	
58-89-9	gamma-BHC (Lindane)	1.9	U	
76-44-8	Heptachlor	1.9	U	
309-00-2	Aldrin	1.9	U	
1024-57-3	Heptachlor epoxide	1.9	U	
959-98-8	Endosulfan I	1.9	U	
60-57-1	Dieldrin	3.8	U	
72-55-9	4,4'-DDE	3.8	U	
72-20-8	Endrin	3.8	U	
33213-65-9	Endosulfan II	3.8	U	
72-54-8	4,4'-DDD	3.8	U	
1031-07-8	Endosulfan sulfate	3.8	U	
50-29-3	4,4'-DDT	3.8	U	
72-43-5	Methoxychlor	19	U	
53494-70-5	Endrin ketone	3.8	U	
7421-93-4	Endrin aldehyde	3.8	U	
5103-71-9	alpha-Chlordane	1.9	U	
5103-74-2	gamma-Chlordane	1.9	U	
8001-35-2	Toxaphene	190	U	

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-12A
 Sample wt/vol: 30.5 (g/mL) G Lab File ID: E6A3788F.D/E6A3788R.D
 % Moisture: 15 Decanted: (Y/N) N Date Received: 08/29/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-01A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E6A3934F.D/E6A3934R.D

% Moisture: 16 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-01A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E6A3776F.D/E6A3776R.D

% Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013

Extraction: (Type) SONC Date Extracted: 09/05/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-02A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: E6A3777F.D/E6A3777R.D
% Moisture: 17 Decanted: (Y/N) N Date Received: 08/27/2013
Extraction: (Type) SONC Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
319-84-6	alpha-BHC	2.0		U
319-85-7	beta-BHC	2.0		U
319-86-8	delta-BHC	2.0		U
58-89-9	gamma-BHC (Lindane)	2.0		U
76-44-8	Heptachlor	2.0		U
309-00-2	Aldrin	2.0		U
1024-57-3	Heptachlor epoxide	2.0		U
959-98-8	Endosulfan I	2.0		U
60-57-1	Dieldrin	3.9		U
72-55-9	4,4'-DDE	3.9		U
72-20-8	Endrin	3.9		U
33213-65-9	Endosulfan II	3.9		U
72-54-8	4,4'-DDD	3.9		U
1031-07-8	Endosulfan sulfate	3.9		U
50-29-3	4,4'-DDT	3.9		U
72-43-5	Methoxychlor	20		U
53494-70-5	Endrin ketone	3.9		U
7421-93-4	Endrin aldehyde	6.2		
5103-71-9	alpha-Chlordane	~~4.5~~		P
5103-74-2	gamma-Chlordane	2.0		U
8001-35-2	Toxaphene	200		U

P

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10/31/13

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SS-02
CLIENT SAMPLE NO.

FD-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-08A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: E6A3784F.D/E6A3784R.D
% Moisture: 18 Decanted: (Y/N) N Date Received: 08/27/2013
Extraction: (Type) SONC Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	<u>Q</u>
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	5.4	~~U~~ 5
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	3.2	~~U~~ R
5103-74-2	gamma-Chlordane	3.1	~~U~~ 5
8001-35-2	Toxaphene	210	U

Handwritten: 10/3/13

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-03A
 Sample wt/vol: 30.4 (g/mL) G Lab File ID: E6A3778F.D/E6A3778R.D
 % Moisture: 31 Decanted: (Y/N) N Date Received: 08/27/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.7	U
72-55-9	4,4'-DDE	4.7	U
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	4.7	U
72-54-8	4,4'-DDD	4.7	U
1031-07-8	Endosulfan sulfate	4.7	U
50-29-3	4,4'-DDT	4.7	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.7	U
7421-93-4	Endrin aldehyde	4.7	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-04A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: E6A3781F.D/E6A3781R.D
% Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013
Extraction: (Type) SONC Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
319-84-6	alpha-BHC	1.9	U	
319-85-7	beta-BHC	1.9	U	
319-86-8	delta-BHC	1.9	U	
58-89-9	gamma-BHC (Lindane)	1.9	U	
76-44-8	Heptachlor	1.9	U	
309-00-2	Aldrin	1.9	U	
1024-57-3	Heptachlor epoxide	1.9	U	
959-98-8	Endosulfan I	1.9	U	
60-57-1	Dieldrin	3.8	U	
72-55-9	4,4'-DDE	3.8	U	
72-20-8	Endrin	3.8	U	
33213-65-9	Endosulfan II	3.8	U	
72-54-8	4,4'-DDD	3.8	U	
1031-07-8	Endosulfan sulfate	3.8	U	
50-29-3	4,4'-DDT	3.8	U	
72-43-5	Methoxychlor	19	U	
53494-70-5	Endrin ketone	3.8	U	
7421-93-4	Endrin aldehyde	3.8	U	
5103-71-9	alpha-Chlordane	1.9	U	
5103-74-2	gamma-Chlordane	1.9	U	
8001-35-2	Toxaphene	190	U	

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-05A
Sample wt/vol: 30.5 (g/mL) G Lab File ID: E6A3782F.D/E6A3782R.D
% Moisture: 5.5 Decanted: (Y/N) N Date Received: 08/27/2013
Extraction: (Type) SONC Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
319-84-6	alpha-BHC	1.8		U
319-85-7	beta-BHC	1.8		U
319-86-8	delta-BHC	1.8		U
58-89-9	gamma-BHC (Lindane)	1.8		U
76-44-8	Heptachlor	1.8		U
309-00-2	Aldrin	1.8		U
1024-57-3	Heptachlor epoxide	2.1		U
959-98-8	Endosulfan I	1.8		U
60-57-1	Dieldrin	3.4		U
72-55-9	4,4'-DDE	3.4		U
72-20-8	Endrin	3.4		U
33213-65-9	Endosulfan II	3.4		U
72-54-8	4,4'-DDD	3.4		U
1031-07-8	Endosulfan sulfate	3.4		U
50-29-3	4,4'-DDT	5.8		
72-43-5	Methoxychlor	18		U
53494-70-5	Endrin ketone	3.4		U
7421-93-4	Endrin aldehyde	5.6		
5103-71-9	alpha-Chlordane	1.8		U
5103-74-2	gamma-Chlordane	1.8		U
8001-35-2	Toxaphene	180		U

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10/13/13

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-06A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: E6A3783F.D/E6A3783R.D
% Moisture: 9.6 Decanted: (Y/N) N Date Received: 08/27/2013
Extraction: (Type) SONC Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	2.0	J
60-57-1	Dieldrin	5.2	R
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	20	NJ
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	4.6	NJ
7421-93-4	Endrin aldehyde	6.5	J
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-10A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E6A3786F.D/E6A3786R.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 08/29/2013

Extraction: (Type) SONC Date Extracted: 09/05/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-11A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: E6A3787F.D/E6A3787R.D
% Moisture: 21 Decanted: (Y/N) N Date Received: 08/29/2013
Extraction: (Type) SONC Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	5.6	~~U~~ NS
72-55-9	4,4'-DDE	7.0	~~U~~ S
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	11	~~U~~ S
50-29-3	4,4'-DDT	~~15~~	~~U~~ R
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	15	
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

QMS
10/13

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-11A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4H4235F.D/E4H4235R.D
% Moisture: 4.3 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor-1016	34		U
11104-28-2	Aroclor-1221	34		U
11141-16-5	Aroclor-1232	34		U
53469-21-9	Aroclor-1242	34		U
12672-29-6	Aroclor-1248	34		U
11097-69-1	Aroclor-1254	34		U
11096-82-5	Aroclor-1260	34		U
37324-23-5	Aroclor-1262	34		U
11100-14-4	Aroclor-1268	34		U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-12A
 Sample wt/vol: 30.4 (g/mL) G Lab File ID: E4H4238F.D/E4H4238R.D
 % Moisture: 7.8 Decanted: (Y/N) N Date Received: 08/30/2013
 Extraction: (Type) SONC Date Extracted: 09/11/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U
37324-23-5	Aroclor-1262	35	U
11100-14-4	Aroclor-1268	35	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-13A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4H4239F.D/E4H4239R.D

% Moisture: 3.4 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor-1016	34		U
11104-28-2	Aroclor-1221	34		U
11141-16-5	Aroclor-1232	34		U
53469-21-9	Aroclor-1242	34		U
12672-29-6	Aroclor-1248	34		U
11097-69-1	Aroclor-1254	34		U
11096-82-5	Aroclor-1260	34		U
37324-23-5	Aroclor-1262	34		U
11100-14-4	Aroclor-1268	34		U

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-15A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E4H4241F.D/E4H4241R.D
% Moisture: 3.8 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	34	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	34	U
37324-23-5	Aroclor-1262	34	U
11100-14-4	Aroclor-1268	34	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-03A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E4H4226F.D/E4H4226R.D

% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-04A
 Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4H4227F.D/E4H4227R.D
 % Moisture: 18 Decanted: (Y/N) N Date Received: 08/30/2013
 Extraction: (Type) SONC Date Extracted: 09/11/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

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EPA SAMPLE NO.

GS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-05A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: E4H4228F.D/E4H4228R.D
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

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EPA SAMPLE NO.

GS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-06A
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4H4229F.D/E4H4229R.D
 % Moisture: 12 Decanted: (Y/N) N Date Received: 08/30/2013
 Extraction: (Type) SONC Date Extracted: 09/11/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

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EPA SAMPLE NO.

GS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-08A
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4H4232F.D/E4H4232R.D
% Moisture: 14 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	
11096-82-5	Aroclor-1260	38	U
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

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EPA SAMPLE NO.

GS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-07A
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4H4230F.D/E4H4230R.D
% Moisture: 15 Decanted: (Y/N) N Date Received: 08/30/2013
Extraction: (Type) SONC Date Extracted: 09/11/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	72	
11096-82-5	Aroclor-1260	39	U
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

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EPA SAMPLE NO.

GS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-09A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E4H4233F.D/E4H4233R.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

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GS-000

EPA SAMPLE NO.

FD-082913-GS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-10A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E4H4234F.D/E4H4234R.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 08/30/2013

Extraction: (Type) SONC Date Extracted: 09/11/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U
37324-23-5	Aroclor-1262	42	U
11100-14-4	Aroclor-1268	42	U

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 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-01A
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: E4H4067F.D/E4H4067R.D
 % Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	38	U <u>5</u>
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U <u>5</u>
11096-82-5	Aroclor-1260	35	<u>17</u> <u>5</u>
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

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CLIENT SAMPLE NO.

SS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-02A
 Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4H4068F.D/E4H4068R.D
 % Moisture: 17 Decanted: (Y/N) N Date Received: 08/27/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	39	U <i>3</i>
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U <i>3</i>
11096-82-5	Aroclor-1260	39	U <i>3</i>
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

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SS-02

CLIENT SAMPLE NO.

FD-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-08A
 Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4H4075F.D/E4H4075R.D
 % Moisture: 18 Decanted: (Y/N) N Date Received: 08/27/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor-1016	40		U <u>5</u>
11104-28-2	Aroclor-1221	40		U
11141-16-5	Aroclor-1232	40		U
53469-21-9	Aroclor-1242	40		U
12672-29-6	Aroclor-1248	40		U
11097-69-1	Aroclor-1254	40		U <u>5</u>
11096-82-5	Aroclor-1260	40		U <u>5</u>
37324-23-5	Aroclor-1262	40		U
11100-14-4	Aroclor-1268	40		U

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CLIENT SAMPLE NO.

SS-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-03A
 Sample wt/vol: 30.4 (g/mL) G Lab File ID: E4H4069F.D/E4H4069R.D
 % Moisture: 31 Decanted: (Y/N) N Date Received: 08/27/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/09/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	47	U <u>3</u>
11104-28-2	Aroclor-1221	47	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	47	U <u>3</u>
11096-82-5	Aroclor-1260	47	U <u>3</u>
37324-23-5	Aroclor-1262	47	U
11100-14-4	Aroclor-1268	47	U

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CLIENT SAMPLE NO.

SS-04

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-04A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: E4H4072F.D/E4H4072R.D
% Moisture: 13 Decanted: (Y/N) N Date Received: 08/27/2013
Extraction: (Type) SONC Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	38	U <i>✓</i>
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U <i>✓</i>
11096-82-5	Aroclor-1260	38	U <i>✓</i>
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

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CLIENT SAMPLE NO.

SS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-05A
 Sample wt/vol: 30.5 (g/mL) G Lab File ID: E4H4073F.D/E4H4073R.D
 % Moisture: 5.5 Decanted: (Y/N) N Date Received: 08/27/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	34	U <i>J</i>
11104-28-2	Aroclor-1221	34	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	66	<i>J</i>
11096-82-5	Aroclor-1260	34	U <i>J</i>
37324-23-5	Aroclor-1262	34	U
11100-14-4	Aroclor-1268	34	U

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 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-06A
 Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4H4074F.D/E4H4074R.D
 % Moisture: 9.6 Decanted: (Y/N) N Date Received: 08/27/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor-1016	36		U <i>3</i>
11104-28-2	Aroclor-1221	36		U
11141-16-5	Aroclor-1232	36		U
53469-21-9	Aroclor-1242	36		U
12672-29-6	Aroclor-1248	36		U
11097-69-1	Aroclor-1254	150		<i>3</i>
11096-82-5	Aroclor-1260	36		U <i>3</i>
37324-23-5	Aroclor-1262	36		U
11100-14-4	Aroclor-1268	36		U

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AROCLOL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS-07

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-10A
Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4H4077F.D/E4H4077R.D
% Moisture: 19 Decanted: (Y/N) N Date Received: 08/29/2013
Extraction: (Type) SONC Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	40	U <u>5</u>
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U <u>5</u>
11096-82-5	Aroclor-1260	40	U <u>5</u>
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

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CLIENT SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-11A
 Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4H4078F.D/E4H4078R.D
 % Moisture: 21 Decanted: (Y/N) N Date Received: 08/29/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
12674-11-2	Aroclor-1016	41		U <i>5</i>
11104-28-2	Aroclor-1221	41		U
11141-16-5	Aroclor-1232	41		U
53469-21-9	Aroclor-1242	41		U
12672-29-6	Aroclor-1248	41		U
11097-69-1	Aroclor-1254	94		<i>75</i>
11096-82-5	Aroclor-1260	41		U <i>5</i>
37324-23-5	Aroclor-1262	41		U
11100-14-4	Aroclor-1268	41		U

OK
10/4/13

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-09A
 Sample wt/vol: 30.4 (g/mL) G Lab File ID: E4H4076F.D/E4H4076R.D
 % Moisture: 14 Decanted: (Y/N) N Date Received: 08/29/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
12674-11-2	Aroclor-1016	38	U <i>5</i>
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U <i>5</i>
11096-82-5	Aroclor-1260	38	U <i>5</i>
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

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10/4/13

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1537-12A
 Sample wt/vol: 30.5 (g/mL) G Lab File ID: E4H4079F.D/E4H4079R.D
 % Moisture: 15 Decanted: (Y/N) N Date Received: 08/29/2013
 Extraction: (Type) SONC Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/10/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	38	U <i>5</i>
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U <i>5</i>
11096-82-5	Aroclor-1260	38	U <i>5</i>
37324-23-5	Aroclor-1262	38	U
11100-14-4	Aroclor-1268	38	U

OK
 10/9/13

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M1594-01A
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: E4H4225F.D/E4H4225R.D
 % Moisture: 16 Decanted: (Y/N) N Date Received: 08/30/2013
 Extraction: (Type) SONC Date Extracted: 09/11/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U
37324-23-5	Aroclor-1262	39	U
11100-14-4	Aroclor-1268	39	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1537-07A
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E4H4027F.D/E4H4027R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/27/2013
 Extraction: (Type) SEPF Date Extracted: 08/30/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/05/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
12674-11-2	Aroclor-1016	1.0	U <i>5</i>
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U <i>5</i>
11096-82-5	Aroclor-1260	1.0	U <i>5</i>
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

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10/4/13

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

CC-01

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1594

Matrix (soil/water): SOIL

Lab Sample ID: M1594-11

Level (low/med): MED

Date Received: 08/30/2013

% Solids: 95.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9310			P
7440-36-0	Antimony	0.39	U	1/5	P
7440-38-2	Arsenic	7.8		1/5	P
7440-39-3	Barium	63.2		1/5	P
7440-41-7	Beryllium	0.26 0.24		1/5	P
7440-43-9	Cadmium	0.22		1/5	P
7440-70-2	Calcium	86500			P
7440-47-3	Chromium	133		1/5	P
7440-48-4	Cobalt	5.4		1/5	P
7440-50-8	Copper	39.1		1/5	P
7439-89-6	Iron	12100		1/5	P
7439-92-1	Lead	21.7		1/5	P
7439-95-4	Magnesium	7690		1/5	P
7439-96-5	Manganese	443		1/5	P
7439-97-6	Mercury	0.012		1/5	CV
7440-02-0	Nickel	21.2		1/5	P
7440-09-7	Potassium	1250		1/5	P
7782-49-2	Selenium	0.66	U		P
7440-22-4	Silver	0.82		1/5	P
7440-23-5	Sodium	406		1/5	P
7440-28-0	Thallium	0.23	U		P
7440-62-2	Vanadium	26.4		1/5	P
7440-66-6	Zinc	464		1/5	P
57-12-5	Cyanide	0.44	U		CA

0.148
10/9/13

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

CC-02

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1594Matrix (soil/water): SOILLab Sample ID: M1594-12Level (low/med): MEDDate Received: 08/30/2013% Solids: 92.2Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10600			P
7440-36-0	Antimony	0.39	U	NS	P
7440-38-2	Arsenic	3.6		NS	P
7440-39-3	Barium	60.9		NS	P
7440-41-7	Beryllium	0.34			P
7440-43-9	Cadmium	0.24		NS	P
7440-70-2	Calcium	66500			P
7440-47-3	Chromium	11.8		NS	P
7440-48-4	Cobalt	5.0		NS	P
7440-50-8	Copper	25.0		NS	P
7439-89-6	Iron	14700		NS	P
7439-92-1	Lead	7.6		NS	P
7439-95-4	Magnesium	4380		NS	P
7439-96-5	Manganese	340		NS	P
7439-97-6	Mercury	0.0067		NS	CV
7440-02-0	Nickel	12.7		NS	P
7440-09-7	Potassium	616		NS	P
7782-49-2	Selenium	0.65	U		P
7440-22-4	Silver	0.065	U		P
7440-23-5	Sodium	203		NS	P
7440-28-0	Thallium	0.22	U		P
7440-62-2	Vanadium	14.3		NS	P
7440-66-6	Zinc	108		NS	P
57-12-5	Cyanide	0.62	B		CA

Q48
10/9/13

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

CC-03

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1594

Matrix (soil/water): SOIL

Lab Sample ID: M1594-13

Level (low/med): MED

Date Received: 08/30/2013

% Solids: 96.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9470			P
7440-36-0	Antimony	0.30	U	NS	P
7440-38-2	Arsenic	5.8		NS	P
7440-39-3	Barium	76.5		NS	P
7440-41-7	Beryllium	0.51			P
7440-43-9	Cadmium	9.4			P
7440-70-2	Calcium	91800			P
7440-47-3	Chromium	257		NS	P
7440-48-4	Cobalt	6.5		NS	P
7440-50-8	Copper	100		NS	P
7439-89-6	Iron	14700		NS	P
7439-92-1	Lead	23.4		NS	P
7439-95-4	Magnesium	5260		NS	P
7439-96-5	Manganese	684		NS	P
7439-97-6	Mercury	0.0046		NS	CV
7440-02-0	Nickel	59.3		NS	P
7440-09-7	Potassium	633		NS	P
7782-49-2	Selenium	0.50	U		P
7440-22-4	Silver	0.36		NS	P
7440-23-5	Sodium	137		NS	P
7440-28-0	Thallium	0.17	U		P
7440-62-2	Vanadium	14.4		NS	P
7440-66-6	Zinc	280		NS	P
57-12-5	Cyanide	16.0			CA

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10/9/13

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

CC-04

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1594

Matrix (soil/water): SOIL

Lab Sample ID: M1594-14

Level (low/med): MED

Date Received: 08/30/2013

% Solids: 91.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9150			P
7440-36-0	Antimony	0.29	U	NS	P
7440-38-2	Arsenic	2.7		NS	P
7440-39-3	Barium	52.7			P
7440-41-7	Beryllium	0.34			P
7440-43-9	Cadmium	9.9			P
7440-70-2	Calcium	112000			P
7440-47-3	Chromium	5460		NS	P
7440-48-4	Cobalt	4.0		NS	P
7440-50-8	Copper	189			P
7439-89-6	Iron	12100		NS	P
7439-92-1	Lead	50.1		NS	P
7439-95-4	Magnesium	8170		NS	P
7439-96-5	Manganese	288		NS	P
7439-97-6	Mercury	0.090			CV
7440-02-0	Nickel	257		NS	P
7440-09-7	Potassium	1510		NS	P
7782-49-2	Selenium	0.49	U		P
7440-22-4	Silver	0.44		NS	P
7440-23-5	Sodium	766			P
7440-28-0	Thallium	0.17	U		P
7440-62-2	Vanadium	16.1		NS	P
7440-66-6	Zinc	404		NS	P
57-12-5	Cyanide	13.4		NS	CA

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10/9/13

Comments:

CC-04

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FD-082913-CC

Lab Name: Spectrum Analytical, Inc. Contract: 11176967.00Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SM1594Matrix (soil/water): SOIL Lab Sample ID: M1594-16Level (low/med): MED Date Received: 08/30/2013% Solids: 89.6Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8710			P
7440-36-0	Antimony	0.33	U	MS	P
7440-38-2	Arsenic	2.8		MS	P
7440-39-3	Barium	60.9			P
7440-41-7	Beryllium	0.34			P
7440-43-9	Cadmium	8.7			P
7440-70-2	Calcium	132000			P
7440-47-3	Chromium	6540		MS	P
7440-48-4	Cobalt	3.5		MS	P
7440-50-8	Copper	257			P
7439-89-6	Iron	10300		MS	P
7439-92-1	Lead	178		MS	P
7439-95-4	Magnesium	10200		MS	P
7439-96-5	Manganese	270		MS	P
7439-97-6	Mercury	0.0049		MS	CV
7440-02-0	Nickel	315		MS	P
7440-09-7	Potassium	1800		MS	P
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.72		MS	P
7440-23-5	Sodium	942			P
7440-28-0	Thallium	0.39		MS	P
7440-62-2	Vanadium	17.6			P
7440-66-6	Zinc	194		MS	P
57-12-5	Cyanide	23.5		MS	CA

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10/6/13

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

CC-05

Lab Name: Spectrum Analytical, Inc. Contract: 11176967.00Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM1594Matrix (soil/water): SOIL Lab Sample ID: M1594-15Level (low/med): MED Date Received: 08/30/2013% Solids: 96.2Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7590			P
7440-36-0	Antimony	0.37	U	~~NS~~	P
7440-38-2	Arsenic	2.4		~~NS~~	P
7440-39-3	Barium	46.5		~~NS~~	P
7440-41-7	Beryllium	0.26			P
7440-43-9	Cadmium	0.59			P
7440-70-2	Calcium	159000			P
7440-47-3	Chromium	70.8		~~NS~~	P
7440-48-4	Cobalt	4.1		~~NS~~	P
7440-50-8	Copper	20.1		~~NS~~	P
7439-89-6	Iron	11100		~~NS~~	P
7439-92-1	Lead	5.5		~~NS~~	P
7439-95-4	Magnesium	45100		~~NS~~	P
7439-96-5	Manganese	317		~~NS~~	P
7439-97-6	Mercury	0.0060		~~NS~~	CV
7440-02-0	Nickel	15.2		~~NS~~	P
7440-09-7	Potassium	1390		~~NS~~	P
7782-49-2	Selenium	0.62	U		P
7440-22-4	Silver	0.31		~~NS~~	P
7440-23-5	Sodium	958		~~NS~~	P
7440-28-0	Thallium	0.21	U		P
7440-62-2	Vanadium	19.8		~~NS~~	P
7440-66-6	Zinc	160		~~NS~~	P
57-12-5	Cyanide	3.0			CA

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 10/9/13

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GS-01

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1594

Matrix (soil/water): SOIL

Lab Sample ID: M1594-03

Level (low/med): MED

Date Received: 08/30/2013

% Solids: 85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16300			P
7440-36-0	Antimony	0.39	B	~~✓~~	P
7440-38-2	Arsenic	12.6	~~✓~~	~~✓~~	P
7440-39-3	Barium	60.5	~~✓~~	~~✓~~	P
7440-41-7	Beryllium	0.69			P
7440-43-9	Cadmium	0.35			P
7440-70-2	Calcium	1780			P
7440-47-3	Chromium	24.2	~~✓~~	~~✓~~	P
7440-48-4	Cobalt	17.2	~~✓~~	~~✓~~	P
7440-50-8	Copper	25.7	~~✓~~	~~✓~~	P
7439-89-6	Iron	43700	~~✓~~	~~✓~~	P
7439-92-1	Lead	18.1	~~✓~~	~~✓~~	P
7439-95-4	Magnesium	6030	~~✓~~	~~✓~~	P
7439-96-5	Manganese	609	~~✓~~	~~✓~~	P
7439-97-6	Mercury	0.018	~~✓~~	~~✓~~	CV
7440-02-0	Nickel	38.2	~~✓~~	~~✓~~	P
7440-09-7	Potassium	840	~~✓~~	~~✓~~	P
7782-49-2	Selenium	0.68	~~✓~~	~~✓~~	P
7440-22-4	Silver	0.052	U		P
7440-23-5	Sodium	430	~~✓~~	~~✓~~	P
7440-28-0	Thallium	0.18	U		P
7440-62-2	Vanadium	20.3	~~✓~~	~~✓~~	P
7440-66-6	Zinc	106	~~✓~~	~~✓~~	P
57-12-5	Cyanide	0.47	U		CA

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10/9/13

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GS-02

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1594Matrix (soil/water): SOILLab Sample ID: M1594-04Level (low/med): MEDDate Received: 08/30/2013% Solids: 81.6Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16100			P
7440-36-0	Antimony	0.45	U	~~P~~	P
7440-38-2	Arsenic	9.2	~~P~~	~~P~~	P
7440-39-3	Barium	283	~~P~~	~~P~~	P
7440-41-7	Beryllium	0.69			P
7440-43-9	Cadmium	0.92			P
7440-70-2	Calcium	1640			P
7440-47-3	Chromium	111	~~P~~	~~P~~	P
7440-48-4	Cobalt	15.5	~~P~~	~~P~~	P
7440-50-8	Copper	111	~~P~~	~~P~~	P
7439-89-6	Iron	28500	~~P~~	~~P~~	P
7439-92-1	Lead	268	~~P~~	~~P~~	P
7439-95-4	Magnesium	4040	~~P~~	~~P~~	P
7439-96-5	Manganese	378	~~P~~	~~P~~	P
7439-97-6	Mercury	0.074			CV
7440-02-0	Nickel	40.9	~~P~~	~~P~~	P
7440-09-7	Potassium	1820	~~P~~	~~P~~	P
7782-49-2	Selenium	1.6	~~P~~	~~P~~	P
7440-22-4	Silver	0.075	U		P
7440-23-5	Sodium	727	~~P~~	~~P~~	P
7440-28-0	Thallium	0.26	U		P
7440-62-2	Vanadium	23.1	~~P~~	~~P~~	P
7440-66-6	Zinc	484	~~P~~	~~P~~	P
57-12-5	Cyanide	0.53	U		CA

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10/9/13

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GS-03

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1594

Matrix (soil/water): SOIL

Lab Sample ID: M1594-05

Level (low/med): MED

Date Received: 08/30/2013

% Solids: 85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12900			P
7440-36-0	Antimony	0.41	U		P
7440-38-2	Arsenic	7.8			P
7440-39-3	Barium	82.6			P
7440-41-7	Beryllium	0.62			P
7440-43-9	Cadmium	18.0			P
7440-70-2	Calcium	14000			P
7440-47-3	Chromium	456			P
7440-48-4	Cobalt	15.0			P
7440-50-8	Copper	330			P
7439-89-6	Iron	32500			P
7439-92-1	Lead	325			P
7439-95-4	Magnesium	5790			P
7439-96-5	Manganese	573			P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	434			P
7440-09-7	Potassium	970			P
7782-49-2	Selenium	0.90			P
7440-22-4	Silver	2.4			P
7440-23-5	Sodium	103			P
7440-28-0	Thallium	0.24	U		P
7440-62-2	Vanadium	20.7			P
7440-66-6	Zinc	524			P
57-12-5	Cyanide	5.4			CA

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GS-04

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1594Matrix (soil/water): SOILLab Sample ID: M1594-06Level (low/med): MEDDate Received: 08/30/2013% Solids: 87.5Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12000			P
7440-36-0	Antimony	0.40	U	~~///~~	P
7440-38-2	Arsenic	6.3	~~///~~	~~///~~	P
7440-39-3	Barium	76.8	~~///~~	~~///~~	P
7440-41-7	Beryllium	0.44			P
7440-43-9	Cadmium	23.6			P
7440-70-2	Calcium	75300			P
7440-47-3	Chromium	1190	~~///~~	~~///~~	P
7440-48-4	Cobalt	11.8	~~///~~	~~///~~	P
7440-50-8	Copper	260	~~///~~	~~///~~	P
7439-89-6	Iron	21200	~~///~~	~~///~~	P
7439-92-1	Lead	319	~~///~~	~~///~~	P
7439-95-4	Magnesium	7520	~~///~~	~~///~~	P
7439-96-5	Manganese	577	~~///~~	~~///~~	P
7439-97-6	Mercury	0.020	~~///~~	~~///~~	CV
7440-02-0	Nickel	231	~~///~~	~~///~~	P
7440-09-7	Potassium	1290	~~///~~	~~///~~	P
7782-49-2	Selenium	0.68	U		P
7440-22-4	Silver	1.1	~~///~~	~~///~~	P
7440-23-5	Sodium	144	~~///~~	~~///~~	P
7440-28-0	Thallium	0.23	U		P
7440-62-2	Vanadium	16.0	~~///~~	~~///~~	P
7440-66-6	Zinc	469	~~///~~	~~///~~	P
57-12-5	Cyanide	38.6			CA

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Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GS-05

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1594

Matrix (soil/water): SOIL

Lab Sample ID: M1594-07

Level (low/med): MED

Date Received: 08/30/2013

% Solids: 85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14800			P
7440-36-0	Antimony	0.37	U	N	P
7440-38-2	Arsenic	9.9			P
7440-39-3	Barium	107	E		P
7440-41-7	Beryllium	0.63			P
7440-43-9	Cadmium	113			P
7440-70-2	Calcium	14300			P
7440-47-3	Chromium	288			P
7440-48-4	Cobalt	12.5	E		P
7440-50-8	Copper	332			P
7439-89-6	Iron	33000	E		P
7439-92-1	Lead	158			P
7439-95-4	Magnesium	4540	E		P
7439-96-5	Manganese	618	E		P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	462	E		P
7440-09-7	Potassium	1530			P
7782-49-2	Selenium	0.96			P
7440-22-4	Silver	3.9			P
7440-23-5	Sodium	596			P
7440-28-0	Thallium	0.21	U		P
7440-62-2	Vanadium	20.7	E		P
7440-66-6	Zinc	2110			P
57-12-5	Cyanide	32.1			CA

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GS-06

Lab Name: Spectrum Analytical, Inc. Contract: 11176967.00Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SM1594Matrix (soil/water): SOIL Lab Sample ID: M1594-08Level (low/med): MED Date Received: 08/30/2013% Solids: 86.4Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14300			P
7440-36-0	Antimony	0.40	U	~~M~~	P
7440-38-2	Arsenic	15.3	~~M~~	~~M~~	P
7440-39-3	Barium	67.4	~~E~~		P
7440-41-7	Beryllium	0.55			P
7440-43-9	Cadmium	11.8			P
7440-70-2	Calcium	2930			P
7440-47-3	Chromium	171	~~M~~	~~E~~	P
7440-48-4	Cobalt	12.3	~~E~~		P
7440-50-8	Copper	151	~~E~~		P
7439-89-6	Iron	33600	~~E~~		P
7439-92-1	Lead	91.3	~~M~~	~~E~~	P
7439-95-4	Magnesium	4430	~~E~~		P
7439-96-5	Manganese	427	~~E~~		P
7439-97-6	Mercury	0.060			CV
7440-02-0	Nickel	172	~~E~~		P
7440-09-7	Potassium	1340	~~E~~		P
7782-49-2	Selenium	1.3	~~E~~	~~S~~	P
7440-22-4	Silver	1.6			P
7440-23-5	Sodium	289	~~E~~		P
7440-28-0	Thallium	0.23	U		P
7440-62-2	Vanadium	18.8	~~E~~		P
7440-66-6	Zinc	1490	~~E~~		P
57-12-5	Cyanide	44.4			CA

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GS-08

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1594Matrix (soil/water): SOILLab Sample ID: M1594-09Level (low/med): MEDDate Received: 08/30/2013% Solids: 80.4Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14100			P
7440-36-0	Antimony	0.38	U	~~✓~~	P
7440-38-2	Arsenic	11.7	~~✓~~	~~✓~~	P
7440-39-3	Barium	81.4	~~✓~~	~~✓~~	P
7440-41-7	Beryllium	0.61			P
7440-43-9	Cadmium	2.7			P
7440-70-2	Calcium	3030			P
7440-47-3	Chromium	39.4	~~✓~~	~~✓~~	P
7440-48-4	Cobalt	27.6	~~✓~~	~~✓~~	P
7440-50-8	Copper	59.6	~~✓~~	~~✓~~	P
7439-89-6	Iron	32100	~~✓~~	~~✓~~	P
7439-92-1	Lead	84.1	~~✓~~	~~✓~~	P
7439-95-4	Magnesium	4340	~~✓~~	~~✓~~	P
7439-96-5	Manganese	438	~~✓~~	~~✓~~	P
7439-97-6	Mercury	0.087			CV
7440-02-0	Nickel	170	~~✓~~	~~✓~~	P
7440-09-7	Potassium	3570	~~✓~~	~~✓~~	P
7782-49-2	Selenium	1.3	~~✓~~	~~✓~~	P
7440-22-4	Silver	0.064	U		P
7440-23-5	Sodium	641	~~✓~~	~~✓~~	P
7440-28-0	Thallium	0.22	U		P
7440-62-2	Vanadium	23.7	~~✓~~	~~✓~~	P
7440-66-6	Zinc	714	~~✓~~	~~✓~~	P
57-12-5	Cyanide	0.54	U		CA

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Comments:

INORGANIC ANALYSIS DATA SHEET

FD-082913-GS

Lab Name: Spectrum Analytical, Inc. Contract: 11176967.00Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM1594Matrix (soil/water): SOIL Lab Sample ID: M1594-10Level (low/med): MED Date Received: 08/30/2013% Solids: 77.4Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400			P
7440-36-0	Antimony	0.48	U	~~NE~~	P
7440-38-2	Arsenic	17.5		~~NE~~	P
7440-39-3	Barium	150		~~NE~~	P
7440-41-7	Beryllium	0.68			P
7440-43-9	Cadmium	3.1			P
7440-70-2	Calcium	4510			P
7440-47-3	Chromium	39.7		~~NE~~	P
7440-48-4	Cobalt	27.3		~~NE~~	P
7440-50-8	Copper	71.4		~~NE~~	P
7439-89-6	Iron	30200		~~NE~~	P
7439-92-1	Lead	468		~~NE~~	P
7439-95-4	Magnesium	3950		~~NE~~	P
7439-96-5	Manganese	451		~~NE~~	P
7439-97-6	Mercury	0.15		~~NE~~	CV
7440-02-0	Nickel	138		~~NE~~	P
7440-09-7	Potassium	3340		~~NE~~	P
7782-49-2	Selenium	1.7		~~NE~~	P
7440-22-4	Silver	0.080	U		P
7440-23-5	Sodium	810		~~NE~~	P
7440-28-0	Thallium	0.28	U		P
7440-62-2	Vanadium	26.6		~~NE~~	P
7440-66-6	Zinc	763		~~NE~~	P
57-12-5	Cyanide	0.48	U		CA

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10/1/13

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-01

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Matrix (soil/water): SOIL

Lab Sample ID: M1537-09

Level (low/med): MED

Date Received: 08/29/2013

% Solids: 86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9280			P
7440-36-0	Antimony	0.37	U	15	P
7440-38-2	Arsenic	6.6	1		P
7440-39-3	Barium	47.6			P
7440-41-7	Beryllium	0.37			P
7440-43-9	Cadmium	0.28	15		P
7440-70-2	Calcium	26200			P
7440-47-3	Chromium	12.3	15		P
7440-48-4	Cobalt	8.7			P
7440-50-8	Copper	18.6			P
7439-89-6	Iron	19500			P
7439-92-1	Lead	8.3	15		P
7439-95-4	Magnesium	8680			P
7439-96-5	Manganese	448			P
7439-97-6	Mercury	0.010	15		CV
7440-02-0	Nickel	19.8			P
7440-09-7	Potassium	820	15		P
7782-49-2	Selenium	0.62	U		P
7440-22-4	Silver	0.062	U		P
7440-23-5	Sodium	67.2			P
7440-28-0	Thallium	0.21	U		P
7440-62-2	Vanadium	12.1			P
7440-66-6	Zinc	48.7	15		P
57-12-5	Cyanide	0.46	U		CA

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-02

Lab Name: Spectrum Analytical, Inc. Contract: 11176967.00Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SM1537Matrix (soil/water): SOIL Lab Sample ID: M1537-12Level (low/med): MED Date Received: 08/29/2013% Solids: 84.8Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11600			P
7440-36-0	Antimony	1.1	~~15~~		P
7440-38-2	Arsenic	18.7	~~1~~		P
7440-39-3	Barium	73.3			P
7440-41-7	Beryllium	0.45			P
7440-43-9	Cadmium	0.58	~~15~~		P
7440-70-2	Calcium	2600			P
7440-47-3	Chromium	16.4	~~15~~		P
7440-48-4	Cobalt	10.5			P
7440-50-8	Copper	35.6			P
7439-89-6	Iron	26900			P
7439-92-1	Lead	23.9	~~15~~		P
7439-95-4	Magnesium	3890			P
7439-96-5	Manganese	522			P
7439-97-6	Mercury	0.021	~~15~~		CV
7440-02-0	Nickel	33.1			P
7440-09-7	Potassium	740	~~15~~		P
7782-49-2	Selenium	0.78	~~15~~		P
7440-22-4	Silver	0.054	U		P
7440-23-5	Sodium	~~40.0~~ 41.8	~~15~~		P
7440-28-0	Thallium	0.36	~~15~~		P
7440-62-2	Vanadium	15.6			P
7440-66-6	Zinc	137	~~15~~		P
57-12-5	Cyanide	0.45	U		CA

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Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-03

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1594Matrix (soil/water): SOILLab Sample ID: M1594-01Level (low/med): MEDDate Received: 08/30/2013% Solids: 84.1Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400			P
7440-36-0	Antimony	0.40	U		P
7440-38-2	Arsenic	7.4			P
7440-39-3	Barium	116			P
7440-41-7	Beryllium	0.51			P
7440-43-9	Cadmium	1.7			P
7440-70-2	Calcium	3270			P
7440-47-3	Chromium	18.3			P
7440-48-4	Cobalt	15.0			P
7440-50-8	Copper	15.3			P
7439-89-6	Iron	33600			P
7439-92-1	Lead	12.7			P
7439-95-4	Magnesium	4640			P
7439-96-5	Manganese	453			P
7439-97-6	Mercury	0.033			CV
7440-02-0	Nickel	24.5			P
7440-09-7	Potassium	769			P
7782-49-2	Selenium	1.2			P
7440-22-4	Silver	0.067	U		P
7440-23-5	Sodium	87.9			P
7440-28-0	Thallium	0.23	U		P
7440-62-2	Vanadium	18.6			P
7440-66-6	Zinc	58.0			P
57-12-5	Cyanide	0.43	U		CA

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Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FD-082913-MW

Lab Name: Spectrum Analytical, Inc. Contract: 11176967.00Lab Code: MITKEM Case No.: SAS No.: SDG No.: SM1594Matrix (soil/water): SOIL Lab Sample ID: M1594-02Level (low/med): MED Date Received: 08/30/2013% Solids: 82.9Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15000			P
7440-36-0	Antimony	0.42	U		P
7440-38-2	Arsenic	5.8			P
7440-39-3	Barium	104	E		P
7440-41-7	Beryllium	0.48			P
7440-43-9	Cadmium	2.2			P
7440-70-2	Calcium	1630			P
7440-47-3	Chromium	17.8			P
7440-48-4	Cobalt	10.9	E		P
7440-50-8	Copper	11.0			P
7439-89-6	Iron	26300	E		P
7439-92-1	Lead	15.4			P
7439-95-4	Magnesium	4080	E		P
7439-96-5	Manganese	298	E		P
7439-97-6	Mercury	0.0069			CV
7440-02-0	Nickel	22.5	E		P
7440-09-7	Potassium	766			P
7782-49-2	Selenium	1.3			P
7440-22-4	Silver	0.070	U		P
7440-23-5	Sodium	92.9			P
7440-28-0	Thallium	0.24	U		P
7440-62-2	Vanadium	18.6	E		P
7440-66-6	Zinc	64.1			P
57-12-5	Cyanide	0.51	U		CA

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SS-01

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Matrix (soil/water): SOIL

Lab Sample ID: M1537-01

Level (low/med): MED

Date Received: 08/27/2013

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700			P
7440-36-0	Antimony	1.7	~~1.5~~		P
7440-38-2	Arsenic	13.9	~~11.5~~		P
7440-39-3	Barium	130	~~1~~		P
7440-41-7	Beryllium	0.59			P
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium	3440			P
7440-47-3	Chromium	33.5	~~11.5~~		P
7440-48-4	Cobalt	12.9			P
7440-50-8	Copper	72.9	~~1~~		P
7439-89-6	Iron	21300			P
7439-92-1	Lead	~~491~~	~~1~~ R		P
7439-95-4	Magnesium	2920			P
7439-96-5	Manganese	369			P
7439-97-6	Mercury	0.085			CV
7440-02-0	Nickel	26.2	~~1~~		P
7440-09-7	Potassium	847			P
7782-49-2	Selenium	1.1	~~1.5~~		P
7440-22-4	Silver	~~1.69-0.62~~	~~1~~ U		P
7440-23-5	Sodium	137			P
7440-28-0	Thallium	0.53	~~1.5~~		P
7440-62-2	Vanadium	20.8			P
7440-66-6	Zinc	1300	~~1.5~~		P
57-12-5	Cyanide	0.43	U		CA

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Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SS-02

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Matrix (soil/water): SOIL

Lab Sample ID: M1537-02

Level (low/med): MED

Date Received: 08/27/2013

% Solids: 82.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11100			P
7440-36-0	Antimony	1.8	1.5		P
7440-38-2	Arsenic	13.3	11.5		P
7440-39-3	Barium	140	1		P
7440-41-7	Beryllium	0.59			P
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium	3320			P
7440-47-3	Chromium	62.0	11.5		P
7440-48-4	Cobalt	10.8			P
7440-50-8	Copper	99.8	1		P
7439-89-6	Iron	30900			P
7439-92-1	Lead	271	* R		P
7439-95-4	Magnesium	2950			P
7439-96-5	Manganese	424			P
7439-97-6	Mercury	0.29			CV
7440-02-0	Nickel	58.9	1		P
7440-09-7	Potassium	609			P
7782-49-2	Selenium	1.4	1.5		P
7440-22-4	Silver	1.53 0.20	1.5	U	P
7440-23-5	Sodium	51.2 46.5	1.5	U	P
7440-28-0	Thallium	0.46	1.5		P
7440-62-2	Vanadium	21.3			P
7440-66-6	Zinc	285	1.5		P
57-12-5	Cyanide	0.46	U		CA

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Comments:

INORGANIC ANALYSIS DATA SHEET

FD-082613

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1537Matrix (soil/water): SOILLab Sample ID: M1537-08Level (low/med): MEDDate Received: 08/27/2013% Solids: 81.7Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11400			P
7440-36-0	Antimony	1.7	<i>1.5</i>		P
7440-38-2	Arsenic	13.2	<i>11.5</i>		P
7440-39-3	Barium	137	<i>1</i>		P
7440-41-7	Beryllium	0.58			P
7440-43-9	Cadmium	1.8			P
7440-70-2	Calcium	4310			P
7440-47-3	Chromium	65.2	<i>11.5</i>		P
7440-48-4	Cobalt	10.4			P
7440-50-8	Copper	84.9	<i>1</i>		P
7439-89-6	Iron	28100			P
7439-92-1	Lead	~~252~~	<i>R</i>		P
7439-95-4	Magnesium	3610			P
7439-96-5	Manganese	397			P
7439-97-6	Mercury	0.30			CV
7440-02-0	Nickel	40.2	<i>1</i>		P
7440-09-7	Potassium	599			P
7782-49-2	Selenium	1.7			P
7440-22-4	Silver	~~1.19~~ <i>0.29</i>	<i>1.0</i>		P
7440-23-5	Sodium	47.2			P
7440-28-0	Thallium	0.47	<i>1.5</i>		P
7440-62-2	Vanadium	20.3			P
7440-66-6	Zinc	286	<i>1.5</i>		P
57-12-5	Cyanide	0.48	U		CA

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SS-03

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1537Matrix (soil/water): SOILLab Sample ID: M1537-03Level (low/med): MEDDate Received: 08/27/2013% Solids: 69.0Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13500			P
7440-36-0	Antimony	187	<i>1.5</i>		P
7440-38-2	Arsenic	28.5	<i>1.5</i>		P
7440-39-3	Barium	162	<i>1</i>		P
7440-41-7	Beryllium	0.67			P
7440-43-9	Cadmium	2.9			P
7440-70-2	Calcium	1900			P
7440-47-3	Chromium	189	<i>1.5</i>		P
7440-48-4	Cobalt	12.0			P
7440-50-8	Copper	78.0	<i>1</i>		P
7439-89-6	Iron	26100			P
7439-92-1	Lead	~~2320~~	<i>R</i>		P
7439-95-4	Magnesium	3500			P
7439-96-5	Manganese	877			P
7439-97-6	Mercury	0.15			CV
7440-02-0	Nickel	54.0	<i>1</i>		P
7440-09-7	Potassium	685			P
7782-49-2	Selenium	1.2	<i>1.5</i>		P
7440-22-4	Silver	~~1.87~~ <i>1.3</i>	<i>1.5</i>		P
7440-23-5	Sodium	~~62.5~~ <i>25.1</i>	<i>1.5</i>		P
7440-28-0	Thallium	0.99	<i>1.5</i>		P
7440-62-2	Vanadium	23.8			P
7440-66-6	Zinc	283	<i>1.5</i>		P
57-12-5	Cyanide	0.54	U		CA

Done
10/4/13

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SS-04

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Matrix (soil/water): SOIL

Lab Sample ID: M1537-04

Level (low/med): MED

Date Received: 08/27/2013

% Solids: 87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8960			P
7440-36-0	Antimony	1.9	15		P
7440-38-2	Arsenic	18.0	15		P
7440-39-3	Barium	145	1		P
7440-41-7	Beryllium	0.68			P
7440-43-9	Cadmium	1.5			P
7440-70-2	Calcium	12100			P
7440-47-3	Chromium	50.6	15		P
7440-48-4	Cobalt	9.7			P
7440-50-8	Copper	73.4	1		P
7439-89-6	Iron	35400			P
7439-92-1	Lead	224	R		P
7439-95-4	Magnesium	3430			P
7439-96-5	Manganese	335			P
7439-97-6	Mercury	0.19			CV
7440-02-0	Nickel	29.3	1		P
7440-09-7	Potassium	781			P
7782-49-2	Selenium	1.3	15		P
7440-22-4	Silver	1.67 ~~0.079~~	15		P
7440-23-5	Sodium	108			P
7440-28-0	Thallium	0.54	15		P
7440-62-2	Vanadium	22.5			P
7440-66-6	Zinc	326	15		P
57-12-5	Cyanide	0.47	U		CA

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SS-05

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1537Matrix (soil/water): SOILLab Sample ID: M1537-05Level (low/med): MEDDate Received: 08/27/2013% Solids: 94.5Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7910			P
7440-36-0	Antimony	5.4	<i>NS</i>		P
7440-38-2	Arsenic	23.5	<i>NS</i>		P
7440-39-3	Barium	88.0	<i>NS</i>		P
7440-41-7	Beryllium	0.30			P
7440-43-9	Cadmium	64.3			P
7440-70-2	Calcium	64300			P
7440-47-3	Chromium	1220	<i>NS</i>		P
7440-48-4	Cobalt	10.9			P
7440-50-8	Copper	640	<i>NS</i>		P
7439-89-6	Iron	43100			P
7439-92-1	Lead	~~344~~	<i>R</i>		P
7439-95-4	Magnesium	17900			P
7439-96-5	Manganese	533			P
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	423	<i>NS</i>		P
7440-09-7	Potassium	789			P
7782-49-2	Selenium	0.63	U		P
7440-22-4	Silver	6.4			P
7440-23-5	Sodium	104			P
7440-28-0	Thallium	1.1			P
7440-62-2	Vanadium	15.4			P
7440-66-6	Zinc	3260	<i>NS</i>		P
57-12-5	Cyanide	10.8			CA

04/28/13

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SS-06

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Matrix (soil/water): SOIL

Lab Sample ID: M1537-06

Level (low/med): MED

Date Received: 08/27/2013

% Solids: 90.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11900			P
7440-36-0	Antimony	2.4	✓		P
7440-38-2	Arsenic	11.3	✓		P
7440-39-3	Barium	133	✓		P
7440-41-7	Beryllium	0.52			P
7440-43-9	Cadmium	13.3			P
7440-70-2	Calcium	7570			P
7440-47-3	Chromium	298	✓		P
7440-48-4	Cobalt	14.6			P
7440-50-8	Copper	819	✓		P
7439-89-6	Iron	46000			P
7439-92-1	Lead	~~312~~	✓	R	P
7439-95-4	Magnesium	4240			P
7439-96-5	Manganese	596			P
7439-97-6	Mercury	0.17			CV
7440-02-0	Nickel	1320	✓		P
7440-09-7	Potassium	738			P
7782-49-2	Selenium	0.59	U		P
7440-22-4	Silver	3.2			P
7440-23-5	Sodium	58.5			P
7440-28-0	Thallium	0.41	✓		P
7440-62-2	Vanadium	17.7			P
7440-66-6	Zinc	1390	✓		P
57-12-5	Cyanide	3.8			CA

Q148
10/4/13

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SS-07

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Matrix (soil/water): SOIL

Lab Sample ID: M1537-10

Level (low/med): MED

Date Received: 08/29/2013

% Solids: 81.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200			P
7440-36-0	Antimony	~~1.17~~ 0.69	~~P~~ 10.5		P
7440-38-2	Arsenic	10.1	1.5		P
7440-39-3	Barium	116			P
7440-41-7	Beryllium	0.55			P
7440-43-9	Cadmium	0.72	1		P
7440-70-2	Calcium	9080			P
7440-47-3	Chromium	17.4	1.5		P
7440-48-4	Cobalt	9.6			P
7440-50-8	Copper	43.2			P
7439-89-6	Iron	22400			P
7439-92-1	Lead	~~102~~	R		P
7439-95-4	Magnesium	3850			P
7439-96-5	Manganese	406			P
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	23.0			P
7440-09-7	Potassium	852	1		P
7782-49-2	Selenium	2.1			P
7440-22-4	Silver	0.075	U		P
7440-23-5	Sodium	~~41.8~~ 58.6	~~P~~ U		P
7440-28-0	Thallium	0.26	U		P
7440-62-2	Vanadium	18.1			P
7440-66-6	Zinc	146	1.5		P
57-12-5	Cyanide	0.52	U		CA

OK
10/4/13

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SS-08

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Matrix (soil/water): SOIL

Lab Sample ID: M1537-11

Level (low/med): MED

Date Received: 08/29/2013

% Solids: 79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8560			P
7440-36-0	Antimony	0.46	U	5	P
7440-38-2	Arsenic	13.3	5		P
7440-39-3	Barium	104			P
7440-41-7	Beryllium	0.28	5		P
7440-43-9	Cadmium	4.7	1		P
7440-70-2	Calcium	2980			P
7440-47-3	Chromium	544	5		P
7440-48-4	Cobalt	8.9			P
7440-50-8	Copper	211			P
7439-89-6	Iron	21600			P
7439-92-1	Lead	277		R	P
7439-95-4	Magnesium	1880			P
7439-96-5	Manganese	284			P
7439-97-6	Mercury	0.31			CV
7440-02-0	Nickel	73.1			P
7440-09-7	Potassium	598	1		P
7782-49-2	Selenium	1.8			P
7440-22-4	Silver	1.83 ± 0.2	1	0	P
7440-23-5	Sodium	65.4			P
7440-28-0	Thallium	0.56	5		P
7440-62-2	Vanadium	18.0			P
7440-66-6	Zinc	603	5		P
57-12-5	Cyanide	2.2			CA

OK
10/4/13

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

GS-07

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1607

Matrix (soil/water): SOIL

Lab Sample ID: M1607-01

Level (low/med): MED

Date Received: 08/31/2013

% Solids: 78.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14100			P
7440-36-0	Antimony	0.41	~~P~~ J		P
7440-38-2	Arsenic	14.5			P
7440-39-3	Barium	157			P
7440-41-7	Beryllium	0.72			P
7440-43-9	Cadmium	1.5			P
7440-70-2	Calcium	8960			P
7440-47-3	Chromium	38.9			P
7440-48-4	Cobalt	14.2			P
7440-50-8	Copper	138			P
7439-89-6	Iron	37800			P
7439-92-1	Lead	211			P
7439-95-4	Magnesium	3900			P
7439-96-5	Manganese	512			P
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	33.9			P
7440-09-7	Potassium	1010			P
7782-49-2	Selenium	1.4			P
7440-22-4	Silver	3.2			P
7440-23-5	Sodium	707			P
7440-28-0	Thallium	0.19	U		P
7440-62-2	Vanadium	22.4			P
7440-66-6	Zinc	290			P
57-12-5	Cyanide	0.55	U		CA

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 10/9/13

Comments:

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** CC-01**Lab ID:** M1594-11**Project:** Triple Cities Metal Finishing**Collection Date:** 08/29/13 11:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	19	4.2 mg/Kg	1 09/13/2013 16:01	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation

Client Sample ID: CC-02

Lab ID: M1594-12

Project: Triple Cities Metal Finishing

Collection Date: 08/29/13 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		4.2	mg/Kg	1	09/13/2013 16:21	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** CC-03**Lab ID:** M1594-13**Project:** Triple Cities Metal Finishing**Collection Date:** 08/29/13 12:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	6.4	4.0 mg/Kg	1 09/13/2013 16:28	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

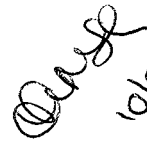
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** CC-04**Lab ID:** M1594-14**Project:** Triple Cities Metal Finishing**Collection Date:** 08/29/13 13:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	3600		1100	mg/Kg	250	09/13/2013 16:32	73588


10/9/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CC-04

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation

Client Sample ID: FD-082913-CC

Lab ID: M1594-16

Project: Triple Cities Metal Finishing

Collection Date: 08/29/13 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	1600 ✓	210 mg/Kg	50 09/13/2013 16:40	73588

APD
10/9/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** CC-05**Lab ID:** M1594-15**Project:** Triple Cities Metal Finishing**Collection Date:** 08/29/13 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent		30		8.2 mg/Kg		2 09/13/2013 16:36	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** GS-01**Lab ID:** M1594-03**Project:** Triple Cities Metal Finishing**Collection Date:** 08/29/13 11:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	4.6 mg/Kg	1 09/13/2013 15:27	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** GS-02**Lab ID:** M1594-04**Project:** Triple Cities Metal Finishing**Collection Date:** 08/29/13 12:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	4.9 mg/Kg	1 09/13/2013 15:30	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation

Client Sample ID: GS-03

Lab ID: M1594-05

Project: Triple Cities Metal Finishing

Collection Date: 08/29/13 12:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		4.6	mg/Kg	1	09/13/2013 15:34	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation

Client Sample ID: GS-04

Lab ID: M1594-06

Project: Triple Cities Metal Finishing

Collection Date: 08/29/13 13:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	180		120	mg/Kg		25 09/13/2013 15:38	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation

Client Sample ID: GS-05

Lab ID: M1594-07

Project: Triple Cities Metal Finishing

Collection Date: 08/29/13 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND			mg/Kg		0 09/13/2013 15:42	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** GS-06**Lab ID:** M1594-08**Project:** Triple Cities Metal Finishing**Collection Date:** 08/29/13 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		4.6	mg/Kg		109/13/2013 15:50	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** GS-07**Lab ID:** M1607-01**Project:** Triple Cities Metal Finishing**Collection Date:** 08/30/13 9:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	5.1 mg/Kg	1 09/13/2013 16:44	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** GS-08**Lab ID:** M1594-09**Project:** Triple Cities Metal Finishing**Collection Date:** 08/29/13 11:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	4.9 mg/Kg	1 09/13/2013 15:54	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

GS-08

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation

Client Sample ID: FD-082913-GS

Lab ID: M1594-10

Project: Triple Cities Metal Finishing

Collection Date: 08/29/13 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	5.0 mg/Kg	1 09/13/2013 15:58	73588

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation**Client Sample ID:** MW-01**Lab ID:** M1537-09**Project:** Triple Cities Metal Finishing**Collection Date:** 08/28/13 10:57

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		4.5	mg/Kg		1 09/04/2013 14:21	73453

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation**Client Sample ID:** MW-02**Lab ID:** M1537-12**Project:** Triple Cities Metal Finishing**Collection Date:** 08/28/13 15:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	4.6 mg/Kg	1 09/04/2013 14:27	73453

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** MW-03**Lab ID:** M1594-01**Project:** Triple Cities Metal Finishing**Collection Date:** 08/29/13 13:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	4.8 mg/Kg	1 09/13/2013 15:19	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

mw-03

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation
Client Sample ID: FD-082913-MW
Lab ID: M1594-02

Project: Triple Cities Metal Finishing
Collection Date: 08/29/13 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND	4.9 mg/Kg	1 09/13/2013 15:23	73588

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation

Client Sample ID: SS-01

Lab ID: M1537-01

Project: Triple Cities Metal Finishing

Collection Date: 08/26/13 12:15

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	~~ND~~ R	4.6 mg/Kg	1 09/04/2013 13:54	73453

01/14/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation**Client Sample ID:** SS-02**Lab ID:** M1537-02**Project:** Triple Cities Metal Finishing**Collection Date:** 08/26/13 12:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	~~ND~~ R	4.9 mg/Kg	109/04/2013 13:56	73453

OK
10/4/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

SS-02

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation

Client Sample ID: FD-082613

Lab ID: M1537-08

Project: Triple Cities Metal Finishing

Collection Date: 08/26/13 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	ND R	4.8 mg/Kg	109/04/2013 14:19	73453

JMS
10/4/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation**Client Sample ID:** SS-03**Lab ID:** M1537-03**Project:** Triple Cities Metal Finishing**Collection Date:** 08/26/13 12:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	~~ND~~ R	5.5 mg/Kg	109/04/2013 13:58	73453

QMS
10/4/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation

Client Sample ID: SS-04

Lab ID: M1537-04

Project: Triple Cities Metal Finishing

Collection Date: 08/26/13 12:50

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	~~ND~~ R	4.7 mg/Kg	109/04/2013 14:13	73453

DPR
10/4/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation

Client Sample ID: SS-05

Lab ID: M1537-05

Project: Triple Cities Metal Finishing

Collection Date: 08/26/13 13:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	~~ND~~ R	4.3 mg/Kg	109/04/2013 14:15	73453

Handwritten:
OK
10/4/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation
Client Sample ID: SS-06
Lab ID: M1537-06

Project: Triple Cities Metal Finishing
Collection Date: 08/26/13 13:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	~~ND~~ R	4.4 mg/Kg	1 09/04/2013 14:17	73453

Q48
10/4/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation**Client Sample ID:** SS-07**Lab ID:** M1537-10**Project:** Triple Cities Metal Finishing**Collection Date:** 08/28/13 12:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	~~ND~~ R	4.9 mg/Kg	109/04/2013 14:23	73453

Q428
10/4/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/13/2013

Client: URS Corporation**Client Sample ID:** SS-08**Lab ID:** M1537-11**Project:** Triple Cities Metal Finishing**Collection Date:** 08/28/13 12:50

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method				SW7196_S
Chromium, Hexavalent	~~ND~~ R	5.0 mg/Kg	109/04/2013 14:25	73453

09/13/13

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4567.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	6.6	
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.0	J
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.66	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

Handwritten signature and date 10/19/13

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4567.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U-5
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U-5
123-91-1	1,4-Dioxane	100	U-B
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

Handwritten: 10/10/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4567.D
Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4568.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	4.1	J
1634-04-4	Methyl tert-butyl ether	2.9	J
75-34-3	1,1-Dichloroethane	1.2	J
78-93-3	2-Butanone	5.0	U 5
156-59-2	cis-1,2-Dichloroethene	3.3	J
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	8.1	
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U 5
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

09/17/13

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: VLM4568.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

Handwritten signature
10/10/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4568.D
Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD-090513

mw-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0640.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/19/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	4.3	J
1634-04-4	Methyl tert-butyl ether	2.9	J
75-34-3	1,1-Dichloroethane	1.2	J
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	3.8	J
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	0.57	J
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	7.7	
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

mw-02

EPA SAMPLE NO.

FD-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0640.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/19/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	~~100~~ 5.0	U R
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

09/19/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

mw-02

EPA SAMPLE NO.

FD-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0640.D
Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/19/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4569.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		5.0	U
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		13	
67-64-1	Acetone		5.0	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		1.0	J
1634-04-4	Methyl tert-butyl ether		5.0	U
75-34-3	1,1-Dichloroethane		1.7	J
78-93-3	2-Butanone		5.0	U 5
156-59-2	cis-1,2-Dichloroethene		3.9	J
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
71-55-6	1,1,1-Trichloroethane		39	
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene	220 230		ND
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
127-18-4	Tetrachloroethene		4.8	ND
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethylbenzene		5.0	U

Handwritten signature
10/19/13

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4569.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U <i>5</i>
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U <i>5</i>
123-91-1	1,4-Dioxane	~~100~~	~~U~~ <i>R</i>
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

01/19/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4569.D
Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. _____ Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0641.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/19/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		20	U
74-87-3	Chloromethane		20	U
75-01-4	Vinyl chloride		20	U
74-83-9	Bromomethane		20	U
75-00-3	Chloroethane		20	U
75-69-4	Trichlorofluoromethane		20	U
75-35-4	1,1-Dichloroethene		9.7	DJ
67-64-1	Acetone		20	U
75-15-0	Carbon disulfide		20	U
75-09-2	Methylene chloride		20	U
156-60-5	trans-1,2-Dichloroethene		20	U
1634-04-4	Methyl tert-butyl ether		20	U
75-34-3	1,1-Dichloroethane		20	U
78-93-3	2-Butanone		20	U
156-59-2	cis-1,2-Dichloroethene		4.1	DJ
74-97-5	Bromochloromethane		20	U
67-66-3	Chloroform		20	U
71-55-6	1,1,1-Trichloroethane		40	D
56-23-5	Carbon tetrachloride		20	U
107-06-2	1,2-Dichloroethane		20	U
71-43-2	Benzene		20	U
79-01-6	Trichloroethene		220	D
78-87-5	1,2-Dichloropropane		20	U
75-27-4	Bromodichloromethane		20	U
10061-01-5	cis-1,3-Dichloropropene		20	U
108-10-1	4-Methyl-2-pentanone		20	U
108-88-3	Toluene		20	U
10061-02-6	trans-1,3-Dichloropropene		20	U
79-00-5	1,1,2-Trichloroethane		20	U
127-18-4	Tetrachloroethene		5.1	DJ
591-78-6	2-Hexanone		20	U
124-48-1	Dibromochloromethane		20	U
106-93-4	1,2-Dibromoethane		20	U
108-90-7	Chlorobenzene		20	U
100-41-4	Ethylbenzene		20	U

Handwritten signature and date: 9/19/13

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0641.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/19/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
179601-23-1	m,p-Xylene	20	U
95-47-6	o-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
103-65-1	n-Propylbenzene	20	U
108-67-8	1,3,5-Trimethylbenzene	20	U
98-06-6	tert-Butylbenzene	20	U
95-63-6	1,2,4-Trimethylbenzene	20	U
135-98-8	sec-Butylbenzene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
104-51-8	n-Butylbenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
123-91-1	1,4-Dioxane	20	U R
110-82-7	Cyclohexane	20	U
79-20-9	Methyl acetate	20	U
108-87-2	Methylcyclohexane	20	U

Handwritten signature
10/19/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-03DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0641.D
Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/19/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

Handwritten signature
10/13

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4571.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U 5
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U 5
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

Handwritten signature and date: 10/10/13

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4571.D
Level: (TRACE/LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

QAP
10/9/13

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4571.D
Level: (TRACE or LOW/MED) LOW Date Received: 09/06/2013
% Moisture: not dec. _____ Date Analyzed: 09/17/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

¹EPA-designated Registry Number.

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-01B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7883.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	1.3	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1'-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-01B
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7883.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (8.32268)	8.323	9.4	J
02		Unknown (10.79075)	10.791	9.3	J

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-02B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7884.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
108-95-2	Phenol		10	U
111-44-4	Bis(2-chloroethyl) ether		10	U
95-57-8	2-Chlorophenol		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	2,2'-oxybis(1-Chloropropane)		10	U
106-44-5	4-Methylphenol		10	U
621-64-7	N-Nitroso-di-n-propylamine		10	U
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
120-83-2	2,4-Dichlorophenol		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
111-91-1	Bis(2-chloroethoxy)methane		10	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		20	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		20	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		20	U
83-32-9	Acenaphthene		10	U
51-28-5	2,4-Dinitrophenol		20	U
100-02-7	4-Nitrophenol		20	U
132-64-9	Dibenzofuran		10	U
121-14-2	2,4-Dinitrotoluene		10	U
84-66-2	Diethylphthalate		10	U
7005-72-3	4-Chlorophenyl-phenylether		10	U
86-73-7	Fluorene		10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-02B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7884.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	1.3	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1'-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7884.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	57-10-3	n-Hexadecanoic acid	8.325	4.8	NJ
02	112-84-5	13-Docosenamide, (Z)-	10.724	6.3	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

mw-02

EPA SAMPLE NO.

FD-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-04B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7888.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

mw-02

EPA SAMPLE NO.

FD-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-04B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7888.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1'-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

mw-02

EPA SAMPLE NO.

FD-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-04B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7888.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	57-10-3	n-Hexadecanoic acid	8.322	4.3	NJ

²EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-01B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7883.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
108-95-2	Phenol	10	U	
111-44-4	Bis(2-chloroethyl)ether	10	U	
95-57-8	2-Chlorophenol	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U	
106-44-5	4-Methylphenol	10	U	
621-64-7	N-Nitroso-di-n-propylamine	10	U	
67-72-1	Hexachloroethane	10	U	
98-95-3	Nitrobenzene	10	U	
78-59-1	Isophorone	10	U	
88-75-5	2-Nitrophenol	10	U	
105-67-9	2,4-Dimethylphenol	10	U	
120-83-2	2,4-Dichlorophenol	10	U	
91-20-3	Naphthalene	10	U	
106-47-8	4-Chloroaniline	10	U	
111-91-1	Bis(2-chloroethoxy)methane	10	U	
87-68-3	Hexachlorobutadiene	10	U	
59-50-7	4-Chloro-3-methylphenol	10	U	
91-57-6	2-Methylnaphthalene	10	U	
77-47-4	Hexachlorocyclopentadiene	10	U	
88-06-2	2,4,6-Trichlorophenol	10	U	
95-95-4	2,4,5-Trichlorophenol	20	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	20	U	
131-11-3	Dimethylphthalate	10	U	
208-96-8	Acenaphthylene	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	20	U	
83-32-9	Acenaphthene	10	U	
51-28-5	2,4-Dinitrophenol	20	U	
100-02-7	4-Nitrophenol	20	U	
132-64-9	Dibenzofuran	10	U	
121-14-2	2,4-Dinitrotoluene	10	U	
84-66-2	Diethylphthalate	10	U	
7005-72-3	4-Chlorophenyl-phenylether	10	U	
86-73-7	Fluorene	10	U	

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7885.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
108-95-2	Phenol		10	U
111-44-4	Bis(2-chloroethyl)ether		10	U
95-57-8	2-Chlorophenol		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	2,2'-oxybis(1-Chloropropane)		10	U
106-44-5	4-Methylphenol		10	U
621-64-7	N-Nitroso-di-n-propylamine		10	U
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
120-83-2	2,4-Dichlorophenol		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
111-91-1	Bis(2-chloroethoxy)methane		10	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		20	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		20	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		20	U
83-32-9	Acenaphthene		10	U
51-28-5	2,4-Dinitrophenol		20	U
100-02-7	4-Nitrophenol		20	U
132-64-9	Dibenzofuran		10	U
121-14-2	2,4-Dinitrotoluene		10	U
84-66-2	Diethylphthalate		10	U
7005-72-3	4-Chlorophenyl-phenylether		10	U
86-73-7	Fluorene		10	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7885.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	1.1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1'-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03B
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3I7885.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) SEPF
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/12/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2013
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	57-10-3	n-Hexadecanoic acid	8.324	5.5	NJ
02	112-84-5	13-Docosenamide, (Z)-	10.702	6.5	NJ

²EPA-designated Registry Number.

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-01B
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E4H4250F.D/E4H4250R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
 Extraction: (Type) SEPF Date Extracted: 09/12/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E4H4251F.D/E4H4251R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013

Extraction: (Type) SEPF Date Extracted: 09/12/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>UG/L</u>	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO
AROCOR ORGANICS ANALYSIS DATA SHEET

mw-02
EPA SAMPLE NO.

FD-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-04B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: E4H4255F.D/E4H4255R.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Extraction: (Type) SEPF Date Extracted: 09/12/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/17/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO
 AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03B
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: E4H4252F.D/E4H4252R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
 Extraction: (Type) SEPF Date Extracted: 09/12/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-01

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1638

Matrix (soil/water): WATER

Lab Sample ID: M1638-01

Level (low/med): MED

Date Received: 09/06/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8180			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	7.0	~~P~~ 5		P
7440-39-3	Barium	~~200~~ 130	~~P~~ 5 U		P
7440-41-7	Beryllium	0.40	~~P~~ 5		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	37100			P
7440-47-3	Chromium	493			P
7440-48-4	Cobalt	17.6	~~P~~ 5		P
7440-50-8	Copper	42.6			P
7439-89-6	Iron	19200			P
7439-92-1	Lead	13.5			P
7439-95-4	Magnesium	28700			P
7439-96-5	Manganese	360			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	317			P
7440-09-7	Potassium	61800			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	8.5	~~P~~ 5		P
7440-23-5	Sodium	77800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	~~50~~ 15.0	~~P~~ 5 U		P
7440-66-6	Zinc	61.9			P
57-12-5	Cyanide	7.5	U		CA

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Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-02

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1638

Matrix (soil/water): WATER

Lab Sample ID: M1638-02

Level (low/med): MED

Date Received: 09/06/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	651			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	~~200~~ 80.1	~~P~~ U		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	3.3	~~P~~ J		P
7440-70-2	Calcium	131000			P
7440-47-3	Chromium	11.8	~~P~~ J		P
7440-48-4	Cobalt	5.8	~~P~~ J		P
7440-50-8	Copper	4.5	~~P~~ J		P
7439-89-6	Iron	982			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	30100			P
7439-96-5	Manganese	1370			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	~~50~~ 19.5	~~P~~ U		P
7440-09-7	Potassium	20500			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	177000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	16.6	~~P~~ J		P
57-12-5	Cyanide	7.5	U		CA

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10/11/13

Comments:

INORGANIC ANALYSIS DATA SHEET

FD-090513

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1638Matrix (soil/water): WATERLab Sample ID: M1638-04Level (low/med): MEDDate Received: 09/06/2013% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	576			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	~~200~~ 83.9	~~P~~ U		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	3.6	~~P~~ S		P
7440-70-2	Calcium	132000			P
7440-47-3	Chromium	11.6	~~P~~ S		P
7440-48-4	Cobalt	6.7	~~P~~ S		P
7440-50-8	Copper	4.8	~~P~~ S		P
7439-89-6	Iron	927			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	30300			P
7439-96-5	Manganese	1380			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	~~50~~ 20.0	~~P~~ U		P
7440-09-7	Potassium	22600			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	180000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	~~50~~ 1.9	~~P~~ U		P
7440-66-6	Zinc	17.9	~~P~~ S		P
57-12-5	Cyanide	7.5	U		CA


 10/11/13

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-03

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1638

Matrix (soil/water): WATER

Lab Sample ID: M1638-03

Level (low/med): MED

Date Received: 09/06/2013

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2800			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	~~200 99.5~~	~~U~~	U	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	118000			P
7440-47-3	Chromium	883			P
7440-48-4	Cobalt	3.7	~~U~~	S	P
7440-50-8	Copper	7.5	~~U~~	S	P
7439-89-6	Iron	4890			P
7439-92-1	Lead	5.5	~~U~~	S	P
7439-95-4	Magnesium	24900			P
7439-96-5	Manganese	337			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	~~50 11.4~~	~~U~~	U	P
7440-09-7	Potassium	5360			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	76800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	~~50 5.4~~	~~U~~	U	P
7440-66-6	Zinc	19.5	~~U~~	S	P
57-12-5	Cyanide	13.1	~~U~~	S	CA

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10/11/13

Comments:

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/20/2013

Client: URS Corporation

Client Sample ID: MW-01

Lab ID: M1638-01

Project: Triple Cities Metal Finishing

Collection Date: 09/05/13 17:17

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 3500D -- CR VI by Colorimetric Method							SM3500_CR+
Chromium, Hexavalent	ND		0.030	mg/L	1	09/06/2013 14:41	73516

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/20/2013

Client: URS Corporation

Client Sample ID: MW-02

Lab ID: M1638-02

Project: Triple Cities Metal Finishing

Collection Date: 09/05/13 15:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 3500D -- CR VI by Colorimetric Method							SM3500_CR+
Chromium, Hexavalent	ND		0.030	mg/L	1	09/06/2013 14:43	73516

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

mw-02

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/20/2013

Client: URS Corporation

Client Sample ID: FD-090513

Lab ID: M1638-04

Project: Triple Cities Metal Finishing

Collection Date: 09/05/13 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 3500D -- CR VI by Colorimetric Method				SM3500_CR+
Chromium, Hexavalent	ND	0.030 mg/L	1 09/06/2013 14:55	73516

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/20/2013

Client: URS Corporation**Client Sample ID:** MW-03**Lab ID:** M1638-03**Project:** Triple Cities Metal Finishing**Collection Date:** 09/05/13 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 3500D -- CR VI by Colorimetric Method							SM3500_CR+
Chromium, Hexavalent	1.0		0.15	mg/L		109/06/2013 14:46	73516

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDW-GW

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1615 Mod. Ref No.: _____ SDG No.: SM1615
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1615-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0301.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2013
% Moisture: not dec. Date Analyzed: 09/05/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-01-4	Vinyl chloride	5.0	U
75-35-4	1,1-Dichloroethene	13	
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	230 220	E/D
127-18-4	Tetrachloroethene	5.0	J
108-90-7	Chlorobenzene	5.0	U

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10/10/13

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDW-GWDL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1615 Mod. Ref No.: _____ SDG No.: SM1615
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1615-01ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0337.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2013
% Moisture: not dec. Date Analyzed: 09/06/2013
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
75-01-4	Vinyl chloride		20	U
75-35-4	1,1-Dichloroethene		14	DJ
78-93-3	2-Butanone		20	U
67-66-3	Chloroform		20	U
56-23-5	Carbon tetrachloride		20	U
107-06-2	1,2-Dichloroethane		20	U
71-43-2	Benzene		20	U
79-01-6	Trichloroethene		230	DB
127-18-4	Tetrachloroethene		5.3	DJ
108-90-7	Chlorobenzene		20	U

QWSP
10/10/13

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDW-SO

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1615 Mod. Ref No.: _____ SDG No.: SM1615
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1615-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4674.D
 Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2013
 % Moisture: not dec. Date Analyzed: 09/18/2013
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-01-4	Vinyl chloride		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
78-93-3	2-Butanone		5.0	U
67-66-3	Chloroform		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		1.9	J
79-01-6	Trichloroethene		3.6	J
127-18-4	Tetrachloroethene		5.0	U
108-90-7	Chlorobenzene		5.0	U

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

IDW-GW

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1615 Mod. Ref No.: _____ SDG No.: SM1615
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1615-01A
Sample wt/vol: 300 (g/mL) ML Lab File ID: S3I7576.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/31/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/05/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/05/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
106-46-7	1,4-Dichlorobenzene	33	U
95-48-7	2-Methylphenol	33	U
106-44-5	4-Methylphenol	33	U
67-72-1	Hexachloroethane	33	U
98-95-3	Nitrobenzene	33	U
87-68-3	Hexachlorobutadiene	33	U
88-06-2	2,4,6-Trichlorophenol	33	U
95-95-4	2,4,5-Trichlorophenol	67	U
121-14-2	2,4-Dinitrotoluene	33	U
118-74-1	Hexachlorobenzene	33	U
87-86-5	Pentachlorophenol	67	U
110-86-1	Pyridine	67	U

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

IDW-SO

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1615 Mod. Ref No.: _____ SDG No.: SM1615
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1615-02A
Sample wt/vol: 300 (g/mL) ML Lab File ID: S3I7541.D
Level: (LOW/MED) LOW Extraction: (Type) SEPF
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/31/2013
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/04/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/04/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	33	U
95-48-7	2-Methylphenol	33	U
106-44-5	4-Methylphenol	33	U
67-72-1	Hexachloroethane	33	U
98-95-3	Nitrobenzene	33	U
87-68-3	Hexachlorobutadiene	33	U
88-06-2	2,4,6-Trichlorophenol	33	U
95-95-4	2,4,5-Trichlorophenol	67	U
121-14-2	2,4-Dinitrotoluene	33	U
118-74-1	Hexachlorobenzene	33	U
87-86-5	Pentachlorophenol	67	U
110-86-1	Pyridine	67	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDW-GW

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1615 Mod. Ref No.: _____ SDG No.: SM1615
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1615-01A
 Sample wt/vol: 300 (g/mL) ML Lab File ID: E6A3726F.D/E6A3726R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/31/2013
 Extraction: (Type) SEPF Date Extracted: 09/05/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/05/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
58-89-9	gamma-BHC (Lindane)	0.17	U
76-44-8	Heptachlor	0.17	U
1024-57-3	Heptachlor epoxide	0.17	U
72-20-8	Endrin	0.33	U
72-43-5	Methoxychlor	1.7	U
8001-35-2	Toxaphene	17	U
12789-03-6	Chlordane (technical)	8.3	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDW-SO

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1615 Mod. Ref No.: _____ SDG No.: SM1615
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1615-02A
 Sample wt/vol: 300 (g/mL) ML Lab File ID: E6A3698F.D/E6A3698R.D
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/31/2013
 Extraction: (Type) SEPF Date Extracted: 09/04/2013
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/04/2013
 Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
58-89-9	gamma-BHC (Lindane)	0.17	U
76-44-8	Heptachlor	0.17	U
1024-57-3	Heptachlor epoxide	0.17	U
72-20-8	Endrin	0.33	U
72-43-5	Methoxychlor	1.7	U
8001-35-2	Toxaphene	17	U
12789-03-6	Chlordane (technical)	8.3	U

1 - FORM I HERB
CHLORINATED HERBICIDE ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDW-GW

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1615 Mod. Ref No.: _____ SDG No.: SM1615
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1615-01A
Sample wt/vol: 300 (g/mL) ML Lab File ID: E5J9408F.D/E5J9408R.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/31/2013
Extraction: (Type) SEPF Date Extracted: 09/05/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/17/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>µG/L</u>	Q
94-75-7	2,4-D	3.3	U
93-72-1	2,4,5-TP (Silvex)	0.33	U

1 - FORM I HERB
CHLORINATED HERBICIDE ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDW-SO

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1615 Mod. Ref No.: _____ SDG No.: SM1615
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1615-02A
Sample wt/vol: 300 (g/mL) ML Lab File ID: E5J9115F.D/E5J9115R.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 08/31/2013
Extraction: (Type) SEPF Date Extracted: 09/04/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/05/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	µG/L
94-75-7	2,4-D	3.3	U
93-72-1	2,4,5-TP (Silvex)	0.33	U

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

IDW-GW

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1615Matrix (soil/water): WATERLab Sample ID: M1615-01Level (low/med): MEDDate Received: 08/31/2013% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	101	~~U~~	<u>5</u>	P
7440-43-9	Cadmium	0.89	U		P
7440-47-3	Chromium	252			P
7439-92-1	Lead	4.2	U		P
7439-97-6	Mercury	0.028	U		CV
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P

Handwritten signature
10/11/13

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

IDW-SO

Lab Name: Spectrum Analytical, Inc. Contract: 11176967.00Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SM1615Matrix (soil/water): WATER Lab Sample ID: M1615-02Level (low/med): MED Date Received: 08/31/2013% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	1210		E	P
7440-43-9	Cadmium	19.0			P
7440-47-3	Chromium	0.64	U		P
7439-92-1	Lead	4.2	U		P
7439-97-6	Mercury	0.028	U		CV
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P

Comments:

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation

Client Sample ID: IDW-GW

Lab ID: M1615-01

Project: Triple Cities Metal Finishing

Collection Date: 08/30/13 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.0		1.0	S.U.		1 09/03/2013 17:13	R76321
SW846 1010 -- FLASHPOINT by Pensky-Martens Closed-Cup Method							SW1010_W
Ignitability	> 140			°F		1 09/17/2013 11:25	R76576
SW846 7.3.3.2 -- Reactive Cyanide Released from Wastes							SW7.3.3.2_W
Reactive Cyanide	ND		0.020	mg/L		1 09/16/2013 19:07	73671
SW846 7.3.4.2 -- Reactive Sulfide Released from Wastes							SW7.3.4.2_W
Reactive Sulfide	ND		0.030	mg/L		1 09/16/2013 16:25	73673

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/18/2013

Client: URS Corporation**Client Sample ID:** IDW-SO**Lab ID:** M1615-02**Project:** Triple Cities Metal Finishing**Collection Date:** 08/30/13 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 1010 -- FLASHPOINT by Pensky-Martens Closed-Cup Method							SW1010_S
Ignitability	> 140			°F		1 09/17/2013 8:45	R76576
SW846 7.3.3.2 -- Reactive Cyanide Released from Wastes							SW7.3.3.2_S
Reactive Cyanide	ND		1.2	mg/Kg		1 09/16/2013 18:47	73670
SW846 7.3.4.2 -- Reactive Sulfide Released from Wastes							SW7.3.4.2_S
Reactive Sulfide	1.8		1.2	mg/Kg		1 09/16/2013 16:11	73672
SW846 9045C -- Soil and Waste pH							SW9045_S
pH	8.2		1.0	S.U.		1 09/04/2013 10:02	R76322

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

ATTACHMENT B
SUPPORT DOCUMENTATION

CHAIN OF CUSTODY RECORD

PROJECT NO. 11176967-00002
 SITE NAME Elmira - Triple Cities
 SAMPLERS (PRINT/SIGNATURE) Tim Iffland

DELIVERY SERVICE: FedEx AIRBILL NO.: 8703-0251-2496

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS
SS-01	8/26/13	1215	G	SS-01	SO	3
SS-02	8/26/13	1225	G	SS-02	SO	3
SS-03	8/26/13	1235	G	SS-03	SO	3
SS-03	8/26/13	1235	G	SS-03-M5	SO	3
SS-03	8/26/13	1235	G	SS-03-M5D	SO	3
SS-04	8/26/13	1250	G	SS-04	SO	3
SS-05	8/26/13	1300	G	SS-05	SO	3
SS-06	8/26/13	1310	G	SS-06	SO	3
Equipment Blank	8/26/13	1330	G	EB-082613	SO	1
Field Duplicate	8/26/13	---	G	FD-082613	SO	3

MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLUDGE	WP - DRINKING WATER	WW - WASTE WATER	WG - GROUND WATER	SO - SOIL	DC - DRILL CUTTINGS	WL - LEACHATE	GS - SOIL GAS	WC - DRILLING WATER	WO - OCEAN WATER	WS - SURFACE WATER	WG - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE	LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TRIP BLANK	SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE												

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tim Iffland	8/26/13	1215	[Signature]	8/27/13	10:26
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

Distribution: Original accompanies shipment, copy to coordinator field files

500

URS

LAB Spectrum
 COOLER 1 of 1
 PAGE 1 of 1

REMARKS
 M1537

-01
 -02
 -03
 -03
 -03
 -04
 -05
 -06
 -07
 -08

SS-02

SPECIAL INSTRUCTIONS

For questions contact
 George K. S. Luk @
 716-856-5636

CHAIN OF CUSTODY RECORD

PROJECT NO. 11176967-00002
 SITE NAME Elmira Triple Cities
 SAMPLERS (PRINT/SIGNATURE) Tim Ifkovich / Tim Afflerbach

DELIVERY SERVICE: Fedex AIRBILL NO.: 8703 0251 2500

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLEID	MATRIX
MW-01	8/28/13	1057	G	MW-01	SO
SS-07	8/28/13	1225	G	SS-07	SO
SS-08	8/28/13	1250	G	SS-08	SO
MW-02	8/28/13	1540	G	MW-02	SO
MW-02	8/28/13	1540	G	MW-02-M5	SO
MW-02	8/28/13	1540	G	MW-02-MSD	SO
Equipment Release	8/28/13	1550	G	EB-082813	SO

TOTAL NO. OF CONTAINERS

TESTS

TCL VOCs + 10 TLCS
 8260B
 TCL SVOCs + 20 TLCS
 PEST. / PCBs
 TAC Metals, Mercury
 Cyanide, Hex. Chromium
 All of Above

BOTTLE TYPE AND PRESERVATIVE

202 Amber Jar
 Unpres.
 802 Amber Jar
 Unpres.
 VAPOR
 402 Amber Jar
 Unpres.
 1L Amber
 Unpres.
 VAPOR

REMARKS

M1537

09

10

11

12

12 + 3.85

limited volume

13

SAMPLE TYPE
 BEGINNING DEPTH (IN FEET)
 ENDING DEPTH (IN FEET)
 FIELD LOT NO. # (IRPMS ONLY)

URS

LAB Spectrum
 COOLER 1 of 1
 PAGE 1 of 1

SPECIAL INSTRUCTIONS

For questions contact
 George Kislik @
 716-856-5636

RECEIVED BY (SIGNATURE)

8/28/13 1715

RELINQUISHED BY (SIGNATURE)

8/28/13 1715

Distribution: Original accompanies shipment, copy to coordinator field files

3.1C

Agnes Huntley [Warwick]

From: Kisluk, George [george.kisluk@urs.com]

Sent: Thursday, August 29, 2013 1:41 PM

To: Agnes Huntley [RI]

Cc: Kropovitch, Ann Marie

Subject: RE: Triple Cities

Please cancel the analysis for EB-082813.

You should expect to receive a delivery of solid samples on Saturday, August 31, 2013

George

From: Agnes Huntley [RI] [mailto:ang@spectrum-analytical.com]

Sent: Thursday, August 29, 2013 1:06 PM

To: Kisluk, George

Cc: Kropovitch, Ann Marie

Subject: Triple Cities

Hi George,

We received EB-082813 today. Again, we only received one 1L amber with analysis "All of the above". We do not have enough sample to perform all the analyses, VOA, SVOA, Pest, PCB, metals, cyanide and hexavalent chromium. Is/are there any particular analyses we should concentrate on?

Thank you!

Agnes (Ng) Huntley

CLP Project Manager

Spectrum Analytical, featuring Hanibal Technology

Rhode Island Division

646 Camp Avenue

North Kingstown, RI 02852

(P) 401-732-3400

(F) 401-732-3499

Due to rising cost of rush shipments, Spectrum Analytical requests that you allow sufficient time for all sample bottle order requests, 3 days notice at a minimum. If you need an expedited bottle order request Spectrum Analytical will provide the bottles but will request that you pay for the shipping. Spectrum Analytical will continue to pay for all shipping previously agreed to, given proper notification. Thank you for your understanding and cooperation

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Agnes Huntley [Warwick]

From: Kisluk, George [george.kisluk@urs.com]
Sent: Tuesday, August 27, 2013 1:19 PM
To: Agnes Huntley [RI]
Cc: Kropovitch, Ann Marie
Subject: RE: Triple Cities,

Hi Agnes,
I will check with the field, but if anything, perform PCBs.
George

From: Agnes Huntley [RI] [mailto:ang@spectrum-analytical.com]
Sent: Tuesday, August 27, 2013 12:42 PM
To: Kisluk, George
Subject: Triple Cities,

Hi George,

We received samples today. We received sample EB-01. We only received one 1L amber bottle. The analysis listed is "All of the above". We do not have enough sample to perform VOA, SVOA, Pesticides, PCB, metals, cyanide and hexavalent chromium. What analyses are we to perform on EB-01 with only one 1L amber received?

Thank you,
Agnes

Agnes (Ng) Huntley

CLP Project Manager
Spectrum Analytical, featuring Hanibal Technology
Rhode Island Division
646 Camp Avenue
North Kingstown, RI 02852
(P) 401-732-3400
(F) 401-732-3499

Due to rising cost of rush shipments, Spectrum Analytical requests that you allow sufficient time for all sample bottle order requests, 3 days notice at a minimum. If you need an expedited bottle order request Spectrum Analytical will provide the bottles but will request that you pay for the shipping. Spectrum Analytical will continue to pay for all shipping previously agreed to, given proper notification. Thank you for your understanding and cooperation

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REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1537

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-73514 in batch 73514, recovery is below criteria for 1,4-Dioxane at 66% with criteria of (70-130).

LCS-73563 in batch 73563, recovery is below criteria for 1,4-Dioxane at 27% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-02 (M1537-12CMS) and MW-02 (M1537-12CMSD).

Percent recoveries were within the QC limits with the following exceptions:

MW-02 (M1537-12CMS), recovery is below criteria for 1,4-Dioxane at 29% with criteria of (70-130).

Replicate RPDs were within the advisory QC limits with the exception of the following:

MW-02 (M1537-12CMSD), Relative Percent Difference is greater than RPD limit for 1,4-Dioxane.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', is written over a horizontal line.

Signed: _____

Date: _____ 9/18/2013 _____

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-73563

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Lab Sample ID: LCS-73563 LCS Lot No.: _____
Date Extracted: 09/10/2013 Date Analyzed (1): 09/10/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2,4-Trimethylbenzene	50.0000	0.0000	52.8989	106		65 - 135
sec-Butylbenzene	50.0000	0.0000	52.7246	105		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	51.9541	104		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	51.1171	102		70 - 125
n-Butylbenzene	50.0000	0.0000	52.7939	106		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	51.0373	102		75 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	42.8960	86		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	50.7390	101		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	47.1462	94		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	49.4576	99		70 - 130
1,4-Dioxane	1000.0000	0.0000	267.7236	27	*	70 - 130
Cyclohexane	50.0000	0.0000	56.9170	114		70 - 130
Methyl acetate	50.0000	0.0000	45.0697	90		70 - 130
Methylcyclohexane	50.0000	0.0000	56.9461	114		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 58 outside limits

COMMENTS: _____

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-73514

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: M1537

Mod. Ref No.:

SDG No.: SM1537

Lab Sample ID: LCS-73514

LCS Lot No.:

Date Extracted: 09/05/2013

Date Analyzed (1): 09/05/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2,4-Trimethylbenzene	50.0000	0.0000	46.5797	93		65 - 135
sec-Butylbenzene	50.0000	0.0000	47.1150	94		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	46.8740	94		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	46.0569	92		70 - 125
n-Butylbenzene	50.0000	0.0000	47.0462	94		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	46.8448	94		75 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	47.1300	94		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	44.3982	89		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	43.2846	87		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	50.8841	102		70 - 130
1,4-Dioxane	1000.0000	0.0000	661.6308	66	*	70 - 130
Cyclohexane	50.0000	0.0000	50.1293	100		70 - 130
Methyl acetate	50.0000	0.0000	49.0865	98		70 - 130
Methylcyclohexane	50.0000	0.0000	47.4398	95		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 58 outside limits

COMMENTS:

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

Instrument ID: V1 Calibration Date(s): 09/05/2013 09/05/2013

Heated Purge: (Y/N) Y Calibration Time(s): 8:32 11:39

Purge Volume: 10.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = <u>V1M4164.D</u>	RRF020 = <u>V1M4163.D</u>					
RRF050 = <u>V1M4162.D</u>	RRF100 = <u>V1M4165.D</u>	RRF080 = <u>V1M4167.D</u>					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF080	RRF	%RSD
Isopropylbenzene	1.893	1.870	1.687	1.715	1.706	1.774	5.6
1,1,2,2-Tetrachloroethane	1.326	1.055	1.119	1.038	1.075	1.122	10.5
n-Propylbenzene	1.160	0.909	1.013	0.983	0.995	1.012	9.0
1,3,5-Trimethylbenzene	3.689	3.170	3.172	3.048	3.167	3.249	7.7
tert-Butylbenzene	3.490	3.455	3.257	3.179	3.241	3.324	4.2
1,2,4-Trimethylbenzene	3.772	3.166	3.086	3.052	3.116	3.238	9.3
sec-Butylbenzene	4.582	4.391	4.165	4.081	4.148	4.273	4.9
1,3-Dichlorobenzene	2.052	1.690	1.682	1.690	1.689	1.760	9.3
1,4-Dichlorobenzene	2.120	1.750	1.683	1.594	1.701	1.770	11.5
n-Butylbenzene	3.528	3.543	3.225	3.191	3.208	3.339	5.4
1,2-Dichlorobenzene	1.800	1.626	1.511	1.531	1.549	1.604	7.4
1,2-Dibromo-3-chloropropane	0.166	0.214	0.179	0.169	0.174	0.180	10.9
1,2,4-Trichlorobenzene	0.928	1.067	0.818	0.806	0.834	0.891	12.3
1,2,3-Trichlorobenzene	0.813	0.985	0.688	0.676	0.742	0.781	16.2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.306	0.315	0.340	0.337	0.331	0.326	4.5
1,4-Dioxane	0.006	0.004	0.003	0.002	0.004	0.004	41.4
Cyclohexane	0.679	0.654	0.707	0.718	0.692	0.690	3.6
Methyl acetate	0.414	0.412	0.436	0.429	0.422	0.423	2.4
Methylcyclohexane	0.513	0.590	0.547	0.560	0.537	0.549	5.2

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB1Q

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Lab File ID: V1M4169.D BFB Injection Date: 09/05/2013
Instrument ID: V1 BFB Injection Time: 13:09
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.1
75	30.0 - 60.0% of mass 95	51.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	73.6
175	5.0 - 9.0% of mass 174	5.6 (7.6)1
176	95.0 - 101.0% of mass 174	72.7 (98.8)1
177	5.0 - 9.0% of mass 176	4.6 (6.4)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501Q	VSTD0501Q	V1M4170.D	09/05/2013	13:26
02	LCS-73514	LCS-73514	V1M4171.D	09/05/2013	14:10
03	MB-73514	MB-73514	V1M4172.D	09/05/2013	14:35
04	SS-01	M1537-01C	V1M4184.D	09/05/2013	19:36
05	SS-02	M1537-02C	V1M4185.D	09/05/2013	20:02
06	SS-03	M1537-03C	V1M4186.D	09/05/2013	20:27
07	SS-04	M1537-04C	V1M4187.D	09/05/2013	20:52
08	SS-05	M1537-05C	V1M4188.D	09/05/2013	21:17
09	SS-06	M1537-06C	V1M4189.D	09/05/2013	21:42
10	FD-082613	M1537-08C	V1M4190.D	09/05/2013	22:07

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

Instrument ID: V1 Calibration Date: 09/05/2013 Time: 13:26

Lab File ID: V1M4170.D Init. Calib. Date(s): 09/05/2013 09/05/2013

EPA Sample No. (VSTD####) VSTD0501Q Init. Calib. Time(s): 8:32 11:39

Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,2,2-Tetrachloroethane	1.122	1.085	0.300	-3.3	20.0
n-Propylbenzene	1.012	1.007	0.100	-0.5	20.0
1,3,5-Trimethylbenzene	3.249	3.256	0.100	0.2	20.0
tert-Butylbenzene	3.324	3.327	0.100	0.1	20.0
1,2,4-Trimethylbenzene	3.238	3.146	0.100	-2.9	20.0
sec-Butylbenzene	4.273	4.262	0.100	-0.3	20.0
1,3-Dichlorobenzene	1.760	1.735	0.600	-1.4	20.0
1,4-Dichlorobenzene	1.770	1.714	0.500	-3.2	20.0
n-Butylbenzene	3.339	3.343	0.100	0.1	20.0
1,2-Dichlorobenzene	1.604	1.573	0.400	-1.9	20.0
1,2-Dibromo-3-chloropropane	0.180	0.174	0.050	-3.6	20.0
1,2,4-Trichlorobenzene	0.891	0.889	0.200	-0.2	20.0
1,2,3-Trichlorobenzene	0.781	0.759	0.100	-2.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.326	0.339	0.100	4.0	20.0
1,4-Dioxane	0.004	0.002	0.100	-33.3	20.0
Cyclohexane	0.690	0.725	0.100	5.1	20.0
Methyl acetate	0.423	0.439	0.100	4.0	20.0
Methylcyclohexane	0.549	0.566	0.100	3.1	20.0

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB1U

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Lab File ID: V1M4290.D BFB Injection Date: 09/10/2013
Instrument ID: V1 BFB Injection Time: 7:44
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.6
75	30.0 - 60.0% of mass 95	54.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	64.4
175	5.0 - 9.0% of mass 174	4.7 (7.3)1
176	95.0 - 101.0% of mass 174	63.7 (98.9)1
177	5.0 - 9.0% of mass 176	4.1 (6.5)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501U	VSTD0501U	V1M4291.D	09/10/2013	8:52
02	LCS-73563	LCS-73563	V1M4292.D	09/10/2013	9:45
03	MB-73563	MB-73563	V1M4294.D	09/10/2013	10:46
04	MW-01	M1537-09C	V1M4298.D	09/10/2013	12:28
05	SS-07	M1537-10C	V1M4299.D	09/10/2013	12:53
06	SS-08	M1537-11C	V1M4300.D	09/10/2013	13:18
07	MW-02	M1537-12C	V1M4301.D	09/10/2013	13:44
08	MW-02MS	M1537-12CMS	V1M4305.D	09/10/2013	15:24
09	MW-02MSD	M1537-12CMSD	V1M4306.D	09/10/2013	15:49

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Instrument ID: V1 Calibration Date: 09/10/2013 Time: 8:52
 Lab File ID: V1M4291.D Init. Calib. Date(s): 09/05/2013 09/05/2013
 EPA Sample No. (VSTD####) VSTD0501U Init. Calib. Time(s): 8:32 11:39
 Heated Purge: (Y/N) Y GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)
 Purge Volume: 10.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.244	0.229	0.100	-6.1	20.0
Chloromethane	0.665	0.633	0.100	-4.8	20.0
Vinyl chloride	0.489	0.484	0.100	-1.0	20.0
Bromomethane	0.249	0.284	0.100	14.2	20.0
Chloroethane	0.276	0.291	0.100	5.6	20.0
Trichlorofluoromethane	0.478	0.517	0.100	8.2	20.0
1,1-Dichloroethene	0.291	0.307	0.100	5.4	20.0
Acetone	0.067	0.056	0.100	-16.0	20.0
Carbon disulfide	0.916	1.065	0.100	16.4	20.0
Methylene chloride	0.339	0.352	0.100	3.7	20.0
trans-1,2-Dichloroethene	0.303	0.342	0.100	12.7	20.0
Methyl tert-butyl ether	0.995	0.972	0.100	-2.3	20.0
1,1-Dichloroethane	0.695	0.765	0.200	10.0	20.0
2-Butanone	0.050	0.042	0.100	-15.5	20.0
cis-1,2-Dichloroethene	0.319	0.348	0.100	9.3	20.0
Bromochloromethane	0.151	0.164	0.100	8.2	20.0
Chloroform	0.581	0.640	0.200	10.2	20.0
1,1,1-Trichloroethane	0.440	0.523	0.100	18.8	20.0
Carbon tetrachloride	0.428	0.485	0.100	13.3	20.0
1,2-Dichloroethane	0.504	0.549	0.100	9.0	20.0
Benzene	1.178	1.301	0.500	10.5	20.0
Trichloroethene	0.299	0.338	0.200	13.0	20.0
1,2-Dichloropropane	0.359	0.392	0.100	9.4	20.0
Bromodichloromethane	0.429	0.475	0.200	10.6	20.0
cis-1,3-Dichloropropene	0.524	0.576	0.200	9.9	20.0
4-Methyl-2-pentanone	0.503	0.404	0.100	-19.6	20.0
Toluene	1.111	1.209	0.400	8.9	20.0
trans-1,3-Dichloropropene	0.468	0.504	0.100	7.6	20.0
1,1,2-Trichloroethane	0.221	0.227	0.100	2.6	20.0
Tetrachloroethene	0.333	0.355	0.200	6.4	20.0
2-Hexanone	0.583	0.456	0.100	-21.8	20.0
Dibromochloromethane	0.428	0.439	0.100	2.8	20.0
1,2-Dibromoethane	0.364	0.354	0.100	-2.8	20.0
Chlorobenzene	1.022	1.058	0.500	3.6	20.0
Ethylbenzene	0.539	0.561	0.100	4.2	20.0
m,p-Xylene	0.677	0.698	0.100	3.1	20.0
o-Xylene	0.639	0.662	0.300	3.7	20.0
Styrene	1.110	1.109	0.300	-0.1	20.0
Bromoform	0.254	0.245	0.100	-3.5	20.0
Isopropylbenzene	1.774	1.818	0.100	2.5	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1537

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3
Instrument Type: GCMS-SEMI

Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

MW-01 (M1537-09A), recovery is below criteria for 2,4,6-Tribromophenol at 25% with criteria of (35-125).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-02 (M1537-12AMS), MW-02 (M1537-12AMSD), SS-03 (M1537-03AMS) and SS-03 (M1537-03AMSD).

Percent recoveries were within the QC limits with the following exceptions:

SS-03 (M1537-03AMSD), recovery is below criteria for Acetophenone at 46% with criteria of (50-150) and Fluoranthene at 55% with criteria of (55-115).

MW-02 (M1537-12AMS), recovery is below criteria for 2,4-Dimethylphenol at 25% with criteria of (30-105), 2,6-Dinitrotoluene at 36% with criteria of (50-110) and N-Nitroso-di-n-propylamine at 39% with criteria of (40-115).

MW-02 (M1537-12AMSD), recovery is below criteria for 2,4-Dimethylphenol at 22% with criteria of (30-105), 2,6-Dinitrotoluene at 29% with criteria of (50-110) and N-Nitroso-di-n-propylamine at 36% with criteria of (40-115).

Replicate RPDs were within the advisory QC limits with the exception of the following:

SS-03 (M1537-03AMSD), Relative Percent Difference is greater than RPD limit for Bis(2-ethylhexyl)phthalate.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

Manual integrations were performed on the following:

SS-01 (M1537-01A) Benzo(b)fluoranthene , Benzo(k)fluoranthene due to M2

SS-02 (M1537-02A) Benzo(b)fluoranthene , Benzo(k)fluoranthene
due to M2

SS-04 (M1537-04A) Benzo(b)fluoranthene , Benzo(k)fluoranthene
due to M2

SS-05 (M1537-05A) Benzo(b)fluoranthene due to M2

SS-06 (M1537-06A) Benzo(b)fluoranthene due to M2

FD-082613 (M1537-08A) Benzo(b)fluoranthene ,
Benzo(k)fluoranthene due to M2

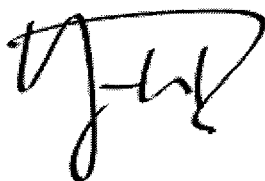
SS-07 (M1537-10A) Benzo(b)fluoranthene due to M2

SS-08 (M1537-11A) Benzo(b)fluoranthene due to M2

MW-02 (M1537-12AMSD) 2,3,4,6-Tetrachlorophenol ,
2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 3-Nitroaniline,
4-Chlorophenyl-phenylether, 4-Nitroaniline, 4-Nitrophenol,
Acenaphthene, Acenaphthene-d10, Dibenzofuran, Diethylphthalate,
Fluorene due to M6

SSTD0103T Benzo(b)fluoranthene , Benzo(k)fluoranthene due to M2

I certify that this data package is in compliance with the terms and
conditions agreed to by the client and Spectrum, both technically and
for completeness, except for the conditions noted above. Release of
the data contained in this hardcopy data package has been
authorized by the Laboratory Manager or designated person, as
verified by the following signature.



Signed: _____

Date: _____ 9/18/2013 _____

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPP3Z

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Lab File ID: S3I7780.D DFTPP Injection Date: 09/16/2013
Instrument ID: S3 DFTPP Injection Time: 13:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.3
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	10.0 - 80.0% of mass 198	48.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than mass 443	8.4
442	50.0 - 100% of mass 198	56.7
443	15.0 - 24.0% of mass 442	11.2 (19.7)2

1 - Value is % mass 69

2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0253Z	SSTD0253Z	S3I7781.D	09/16/2013	13:51
02	MB-73536	MB-73536	S3I7794.D	09/16/2013	18:35
03	LCS-73536	LCS-73536	S3I7795.D	09/16/2013	18:57
04	SS-01	M1537-01A	S3I7796.D	09/16/2013	19:18
05	SS-02	M1537-02A	S3I7797.D	09/16/2013	19:40
06	SS-03	M1537-03A	S3I7798.D	09/16/2013	20:02
07	SS-03MS	M1537-03AMS	S3I7799.D	09/16/2013	20:23
08	SS-03MSD	M1537-03AMSD	S3I7800.D	09/16/2013	20:44
09	SS-04	M1537-04A	S3I7801.D	09/16/2013	21:06
10	SS-05	M1537-05A	S3I7802.D	09/16/2013	21:27
11	SS-06	M1537-06A	S3I7803.D	09/16/2013	21:48
12	FD-082613	M1537-08A	S3I7804.D	09/16/2013	22:09
13	MW-01	M1537-09A	S3I7805.D	09/16/2013	22:31
14	SS-07	M1537-10A	S3I7806.D	09/16/2013	22:52
15	SS-08	M1537-11A	S3I7807.D	09/16/2013	23:13
16	MW-02	M1537-12A	S3I7808.D	09/16/2013	23:34
17	MW-02MS	M1537-12AMS	S3I7809.D	09/16/2013	23:55
18	MW-02MSD	M1537-12AMSD	S3I7810.D	09/17/2013	0:17

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Instrument ID: S3 Calibration Date: 09/16/2013 Time: 13:51
 Lab File ID: S3I7781.D Init. Calib. Date(s): 09/06/2013 09/06/2013
 EPA Sample No. (SSTD020##) SSTD0253Z Init. Calib. Time(s): 14:49 17:02
 GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenol	1.879	1.954	0.800	4.0	20.0
Bis(2-chloroethyl)ether	0.974	1.069	0.700	9.8	20.0
2-Chlorophenol	1.465	1.474	0.800	0.6	20.0
2-Methylphenol	1.359	1.371	0.700	0.9	20.0
2,2'-oxybis(1-Chloropropane)	1.614	1.783	0.010	10.5	20.0
4-Methylphenol	1.451	1.505	0.600	3.7	20.0
N-Nitroso-di-n-propylamine	1.022	1.070	0.500	4.6	20.0
Hexachloroethane	0.561	0.557	0.300	-0.7	20.0
Nitrobenzene	0.378	0.389	0.200	3.0	20.0
Isophorone	0.695	0.719	0.400	3.6	20.0
2-Nitrophenol	0.215	0.214	0.100	-0.4	20.0
2,4-Dimethylphenol	0.372	0.351	0.200	-5.8	20.0
2,4-Dichlorophenol	0.326	0.318	0.200	-2.4	20.0
Naphthalene	1.103	1.090	0.700	-1.1	20.0
4-Chloroaniline	0.480	0.480	0.010	-0.1	20.0
Bis(2-chloroethoxy)methane	0.424	0.435	0.300	2.5	20.0
Hexachlorobutadiene	0.192	0.180	0.010	-6.3	20.0
4-Chloro-3-methylphenol	0.336	0.341	0.200	1.3	20.0
2-Methylnaphthalene	0.732	0.731	0.400	-0.2	20.0
Hexachlorocyclopentadiene	0.297	0.297	0.050	0.2	20.0
2,4,6-Trichlorophenol	0.393	0.384	0.200	-2.4	20.0
2,4,5-Trichlorophenol	0.402	0.408	0.200	1.7	20.0
2-Chloronaphthalene	1.127	1.118	0.800	-0.8	20.0
2-Nitroaniline	0.332	0.352	0.010	6.0	20.0
Dimethylphthalate	1.314	1.282	0.010	-2.4	20.0
Acenaphthylene	1.862	1.842	0.900	-1.0	20.0
2,6-Dinitrotoluene	0.320	0.321	0.200	0.3	20.0
3-Nitroaniline	0.367	0.372	0.010	1.4	20.0
Acenaphthene	1.155	1.141	0.900	-1.2	20.0
2,4-Dinitrophenol	0.144	0.169	0.010	17.1	20.0
4-Nitrophenol	0.152	0.162	0.010	6.3	20.0
Dibenzofuran	1.689	1.671	0.800	-1.0	20.0
2,4-Dinitrotoluene	0.420	0.430	0.200	2.4	20.0
Diethylphthalate	1.283	1.680	0.010	30.9	20.0
4-Chlorophenyl-phenylether	0.685	0.675	0.400	-1.5	20.0
Fluorene	1.370	1.353	0.900	-1.3	20.0
4-Nitroaniline	0.363	0.379	0.010	4.4	20.0
4,6-Dinitro-2-methylphenol	0.133	0.140	0.010	5.3	20.0
N-Nitrosodiphenylamine	0.632	0.640	0.010	1.3	20.0
4-Bromophenyl-phenylether	0.210	0.205	0.100	-2.4	20.0
Hexachlorobenzene	0.214	0.210	0.100	-2.1	20.0
Pentachlorophenol	0.131	0.142	0.050	9.1	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1537

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria with the exception for INDC3JJ which did not pass for the closing CCV criteria due to sample matrix from the analytical sequence. All affected the samples were also analyzed on 9/9/13 after a passing opening CCV with similar closing CCV failures. Only the analytical results from 9/10/13 were reported in this data package.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

SS-02 (M1537-02A), recovery is below criteria for Decachlorobiphenyl on front column at 50% with criteria of (55-130).

SS-04 (M1537-04A), recovery is below criteria for Decachlorobiphenyl on front column at 52% with criteria of (55-130).

SS-06 (M1537-06A), recovery is below criteria for Decachlorobiphenyl on front column at 50% with criteria of (55-130).

MW-02 (M1537-12AMSD), recovery is below criteria for Decachlorobiphenyl on front column at 51% with criteria of (55-130).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-02

(M1537-12AMS), MW-02 (M1537-12AMSD), SS-03 (M1537-03AMS) and SS-03 (M1537-03AMSD).

Percent recoveries were within the QC limits with the following exceptions:

SS-03 (M1537-03AMS), recovery is below criteria for alpha-Chlordane on rear column at 64% with criteria of (65-120) and Endosulfan sulfate on front column at 57% with criteria of (60-135).

SS-03 (M1537-03AMSD), recovery is below criteria for alpha-Chlordane on rear column at 63% with criteria of (65-120) and Endosulfan sulfate on front column at 55% with criteria of (60-135).

MW-02 (M1537-12AMS), recovery is below criteria for 4,4'-DDE on rear column at 69% with criteria of (70-125), Endosulfan sulfate on rear column at 55% with criteria of (60-135), Methoxychlor on rear column at 54% with criteria of (55-145) and Methoxychlor on front column at 52% with criteria of (55-145).

MW-02 (M1537-12AMSD), recovery is below criteria for 4,4'-DDE on rear column at 64% with criteria of (70-125), Endosulfan sulfate on front column at 54% with criteria of (60-135), Heptachlor epoxide on front column at 63% with criteria of (65-130), Methoxychlor on rear column at 49% with criteria of (55-145) and Methoxychlor on front column at 47% with criteria of (55-145).

Replicate RPDs were within the advisory QC limits with the exception of the following:

MW-02 (M1537-12AMSD), Relative Percent Difference is greater than RPD limit for delta-BHC on front column.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

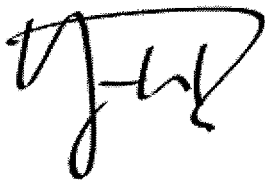
- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

TOXAPH4J6 Toxaphene on rear column due to M3

TOXAPH5J6 Toxaphene on rear column due to M3

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/18/2013 _____

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

SS-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Lab Sample ID: M1537-02A Date(s) Analyzed: 09/10/2013 09/10/2013
Instrument ID (1): E6 Instrument ID (2): E6
GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin aldehyde	1	6.787	6.755	6.895	6.2	13.0
	2	7.716	7.678	7.818	7.0	
alpha-Chlordane	1	5.474	5.428	5.568	23	408.4
	2	6.583	6.520	6.660	4.5	

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

SS-06

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Lab Sample ID: M1537-06A Date(s) Analyzed: 09/10/2013 09/10/2013
Instrument ID (1): E6 Instrument ID (2): E6
GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan I	1	5.615	5.569	5.709	2.6	30.2
	2	6.720	6.591	6.731	2.0	
Dieldrin	1	5.889	5.822	5.962	5.2	335.2
	2	6.901	6.875	7.015	23	
4,4'-DDT	1	6.500	6.458	6.598	20	138.7
	2	7.615	7.544	7.684	48	
Endrin ketone	1	7.488	7.434	7.574	8.0	74.4
	2	8.486	8.408	8.548	4.6	
Endrin aldehyde	1	6.798	6.755	6.895	6.5	62.2
	2	7.719	7.678	7.818	11	

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

SS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Lab Sample ID: M1537-05A Date(s) Analyzed: 09/10/2013 09/10/2013
Instrument ID (1): E6 Instrument ID (2): E6
GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Heptachlor epoxide	1	5.284	5.165	5.305	3.6	69.4
	2	6.194	6.145	6.285	2.1	
4,4'-DDT	1	6.498	6.458	6.598	7.2	23.1
	2	7.615	7.544	7.684	5.8	
Endrin aldehyde	1	6.794	6.755	6.895	6.0	7.5
	2	7.723	7.678	7.818	5.6	

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SS-02

CLIENT SAMPLE NO.

FD-082613

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Lab Sample ID: M1537-08A Date(s) Analyzed: 09/10/2013 09/10/2013
Instrument ID (1): E6 Instrument ID (2): E6
GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	6.525	6.458	6.598	5.4	49.1
	2	7.611	7.544	7.684	8.1	
alpha-Chlordane	1	5.481	5.428	5.568	22	600.6
	2	6.590	6.520	6.660	3.2	
gamma-Chlordane	1	5.367	5.292	5.432	3.1	30.9
	2	6.427	6.359	6.499	4.1	

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
Lab Sample ID: M1537-11A Date(s) Analyzed: 09/10/2013 09/10/2013
Instrument ID (1): E6 Instrument ID (2): E6
GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Dieldrin	1	5.888	5.822	5.962	5.6	128.7
	2	6.904	6.875	7.015	13	
4,4'-DDE	1	5.575	5.508	5.648	12	74.2
	2	6.748	6.679	6.819	7.0	
Endosulfan sulfate	1	7.219	7.176	7.316	11	80.1
	2	7.949	7.918	8.058	21	
4,4'-DDT	1	6.500	6.458	6.598	15	205.8
	2	7.617	7.544	7.684	47	
Endrin ketone	1	7.507	7.434	7.574	15	2.2
	2	8.478	8.408	8.548	16	

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1537

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8082A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C
Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E4
Instrument Type: GC-ECD

Description: HP6890
Manufacturer: Hewlett-Packard
Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest
capillary column.
GC Column used: 30 m X 0.53 mm ID [0.42 um thickness] CLPPestII
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

SS-01 (M1537-01A), recovery is below criteria for Decachlorobiphenyl on front column at 49% with criteria of (60-125).

SS-02 (M1537-02A), recovery is below criteria for Decachlorobiphenyl on rear column at 59% with criteria of (60-125) and Decachlorobiphenyl on front column at 41% with criteria of (60-125).

SS-03 (M1537-03A), recovery is below criteria for Decachlorobiphenyl on front column at 50% with criteria of (60-125).

SS-03 (M1537-03AMS), recovery is below criteria for Decachlorobiphenyl on front column at 47% with criteria of (60-125).

SS-03 (M1537-03AMSD), recovery is below criteria for Decachlorobiphenyl on front column at 45% with criteria of (60-125).

SS-04 (M1537-04A), recovery is below criteria for Decachlorobiphenyl on rear column at 51% with criteria of (60-125) and Decachlorobiphenyl on front column at 40% with criteria of (60-125).

SS-05 (M1537-05A), recovery is below criteria for Decachlorobiphenyl on rear column at 58% with criteria of (60-125) and Decachlorobiphenyl on front column at 45% with criteria of (60-125).

SS-06 (M1537-06A), recovery is below criteria for Decachlorobiphenyl on rear column at 48% with criteria of (60-125).

FD-082613 (M1537-08A), recovery is below criteria for Decachlorobiphenyl on rear column at 55% with criteria of (60-125) and Decachlorobiphenyl on front column at 42% with criteria of (60-125).

MW-01 (M1537-09A), recovery is below criteria for Decachlorobiphenyl on front column at 53% with criteria of (60-125).

SS-07 (M1537-10A), recovery is below criteria for Decachlorobiphenyl on front column at 53% with criteria of (60-125).

SS-08 (M1537-11A), recovery is below criteria for Decachlorobiphenyl on rear column at 48% with criteria of (60-125).

MW-02 (M1537-12A), recovery is below criteria for Decachlorobiphenyl on rear column at 54% with criteria of (60-125) and Decachlorobiphenyl on front column at 49% with criteria of (60-125).

MW-02 (M1537-12AMS), recovery is below criteria for Decachlorobiphenyl on front column at 52% with criteria of (60-125).

MW-02 (M1537-12AMSD), recovery is below criteria for Decachlorobiphenyl on front column at 52% with criteria of (60-125).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-02 (M1537-12AMS), MW-02 (M1537-12AMSD), SS-03 (M1537-03AMS) and SS-03 (M1537-03AMSD).

Percent recoveries were within the QC limits with the following exceptions:

SS-03 (M1537-03AMS), recovery is below criteria for Aroclor-1260 on front column at 60% with criteria of (60-130).

SS-03 (M1537-03AMSD), recovery is below criteria for Aroclor-1260 on front column at 58% with criteria of (60-130).

MW-02 (M1537-12AMS), recovery is below criteria for Aroclor-1260 on front column at 57% with criteria of (60-130).

MW-02 (M1537-12AMSD), recovery is below criteria for Aroclor-1260 on front column at 58% with criteria of (60-130).

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

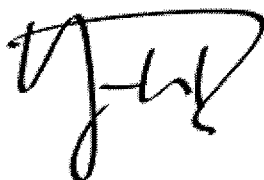
The following samples were manually integrated:

AR12481E4 Aroclor-1248 on front column due to M2

AR12485E4 Aroclor-1248 on front column due to M2

AR12486E4 Aroclor-1248 on front column due to M2

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 9/18/2013 _____

8H - FORM VIII ARO
AROCOR ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 08/20/2013 08/20/2013
 Instrument ID: E4

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>3.277</u>			DCB: <u>9.741</u>			
CLIENT SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT
28	AR16605E4	E4H3546F.D	8/20/2013	22:30	3.277	9.740
29	AR16603EN	E4H4021F.D	9/5/2013	16:01	3.272	9.731
30	MB-73426	E4H4024F.D	9/5/2013	17:02	3.277	9.737
31	LCS-73426	E4H4025F.D	9/5/2013	17:20	3.273	9.731
32	LCSD-73426	E4H4026F.D	9/5/2013	17:38	3.272	9.730
33	EB-082613	E4H4027F.D	9/5/2013	17:56	3.273	9.731
34	AR16603EO	E4H4029F.D	9/5/2013	18:33	3.272	9.729
35	AR16603ER	E4H4048F.D	9/9/2013	16:43	3.278	9.739
36	AR12543ER	E4H4051F.D	9/9/2013	17:56	3.272	9.730
37	MB-73496	E4H4056F.D	9/9/2013	19:26	3.273	9.730
38	LCS-73496	E4H4057F.D	9/9/2013	19:44	3.272	9.729
39	AR16603ES	E4H4063F.D	9/9/2013	21:33	3.272	9.730
40	AR12543ES	E4H4066F.D	9/9/2013	22:27	3.272	9.730
41	SS-01	E4H4067F.D	9/9/2013	22:45	3.272	9.731
42	SS-02	E4H4068F.D	9/9/2013	23:03	3.273	9.731
43	SS-03	E4H4069F.D	9/9/2013	23:21	3.271	9.730
44	SS-03MS	E4H4070F.D	9/9/2013	23:39	3.271	9.730
45	SS-03MSD	E4H4071F.D	9/9/2013	23:57	3.272	9.731
46	SS-04	E4H4072F.D	9/10/2013	0:15	3.272	9.730
47	SS-05	E4H4073F.D	9/10/2013	0:33	3.272	9.731
48	SS-06	E4H4074F.D	9/10/2013	0:51	3.272	9.729
49	FD-082613	E4H4075F.D	9/10/2013	1:09	3.272	9.731
50	MW-01	E4H4076F.D	9/10/2013	1:27	3.271	9.731
51	SS-07	E4H4077F.D	9/10/2013	1:45	3.271	9.730
52	SS-08	E4H4078F.D	9/10/2013	2:03	3.271	9.732
53	MW-02	E4H4079F.D	9/10/2013	2:21	3.272	9.730
54	MW-02MS	E4H4080F.D	9/10/2013	2:39	3.271	9.729

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
 DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 08/20/2013 08/20/2013
Instrument ID: E4

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN
BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>3.277</u>			DCB: <u>9.741</u>			
CLIENT SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #	
55 MW-02MSD	E4H4081F.D	9/10/2013	2:57	3.271	9.730	
56 AR16603ET	E4H4083F.D	9/10/2013	3:33	3.272	9.730	
57 AR12543ET	E4H4086F.D	9/10/2013	4:27	3.271	9.728	

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCOR ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 08/20/2013 08/20/2013
 Instrument ID: E4

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>3.988</u>			DCB: <u>12.157</u>			
CLIENT SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT
28	AR16605E4	E4H3546R.D	8/20/2013	22:30	3.988	12.155
29	AR16603EN	E4H4021R.D	9/5/2013	16:01	3.985	12.147
30	MB-73426	E4H4024R.D	9/5/2013	17:02	3.984	12.150
31	LCS-73426	E4H4025R.D	9/5/2013	17:20	3.985	12.146
32	LCSD-73426	E4H4026R.D	9/5/2013	17:38	3.984	12.146
33	EB-082613	E4H4027R.D	9/5/2013	17:56	3.985	12.149
34	AR16603EO	E4H4029R.D	9/5/2013	18:33	3.985	12.150
35	AR16603ER	E4H4048R.D	9/9/2013	16:43	3.982	12.149
36	AR12543ER	E4H4051R.D	9/9/2013	17:56	3.985	12.150
37	MB-73496	E4H4056R.D	9/9/2013	19:26	3.986	12.150
38	LCS-73496	E4H4057R.D	9/9/2013	19:44	3.986	12.151
39	AR16603ES	E4H4063R.D	9/9/2013	21:33	3.984	12.148
40	AR12543ES	E4H4066R.D	9/9/2013	22:27	3.985	12.147
41	SS-01	E4H4067R.D	9/9/2013	22:45	3.985	12.149
42	SS-02	E4H4068R.D	9/9/2013	23:03	3.985	12.149
43	SS-03	E4H4069R.D	9/9/2013	23:21	3.984	12.150
44	SS-03MS	E4H4070R.D	9/9/2013	23:39	3.984	12.148
45	SS-03MSD	E4H4071R.D	9/9/2013	23:57	3.985	12.150
46	SS-04	E4H4072R.D	9/10/2013	0:15	3.986	12.148
47	SS-05	E4H4073R.D	9/10/2013	0:33	3.984	12.149
48	SS-06	E4H4074R.D	9/10/2013	0:51	3.984	12.150
49	FD-082613	E4H4075R.D	9/10/2013	1:09	3.984	12.150
50	MW-01	E4H4076R.D	9/10/2013	1:27	3.985	12.147
51	SS-07	E4H4077R.D	9/10/2013	1:45	3.985	12.147
52	SS-08	E4H4078R.D	9/10/2013	2:03	3.985	12.150
53	MW-02	E4H4079R.D	9/10/2013	2:21	3.985	12.148
54	MW-02MS	E4H4080R.D	9/10/2013	2:39	3.985	12.150

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
 DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 08/20/2013 08/20/2013
Instrument ID: E4

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN
BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
TCX: <u>3.988</u>			DCB: <u>12.157</u>			
CLIENT SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT
55 MW-02MSD	E4H4081R.D	9/10/2013	2:57	3.985		12.149
56 AR16603ET	E4H4083R.D	9/10/2013	3:33	3.985		12.148
57 AR12543ET	E4H4086R.D	9/10/2013	4:27	3.985		12.146

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

7N - FORM VII ARO
 AROCLOR CALIBRATION VERIFICATION SUMMARY

Before

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 08/20/2013 08/20/2013

EPA Sample No. (AR####3##): AR16603ES Date Analyzed: 09/09/2013

Lab Sample ID: AR16603ES Time Analyzed: 21:33

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

EPA Sample No. (AR####3##): AR12543ES Date Analyzed: 09/09/2013

Lab Sample ID: AR12543ES Time Analyzed: 22:27

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		CF	CF	%D
		RT	FROM	TO			
AR1016	1	4.083	4.021	4.161	1014897.708	852172.5	-16.0
	2	4.617	4.556	4.696	1585285.417	1340600	-15.4
	3	5.224	5.163	5.303	835411.7708	708285	-15.2
AR1260	1	6.581	6.521	6.661	1361052.396	1162085	-14.6
	2	7.640	7.581	7.721	1059233.646	866945	-18.2
	3	8.003	7.944	8.084	2174675.417	1768422.5	-18.7
TCX		3.272	3.227	3.327	43179950	38531900	-10.8
DCB		9.730	9.641	9.841	41231887.5	36084775	-12.5
AR1254	1	6.677	6.618	6.758	1192518.438	845170	-29.1
	2	6.894	6.835	6.975	948843.3333	692755	-27.0
	3	7.212	7.153	7.293	1339384.063	974082.5	-27.3
TCX		3.272	3.227	3.327	43179950	33305350	-22.9
DCB		9.730	9.641	9.841	41231887.5	30278675	-26.6

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

7N - FORM VII ARO
AROCLOR CALIBRATION VERIFICATION SUMMARY

Before

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 08/20/2013 08/20/2013

EPA Sample No. (AR####3##): AR16603ES Date Analyzed: 09/09/2013

Lab Sample ID: AR16603ES Time Analyzed: 21:33

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

EPA Sample No. (AR####3##): AR12543ES Date Analyzed: 09/09/2013

Lab Sample ID: AR12543ES Time Analyzed: 22:27

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		CF	CF	%D
		RT	FROM	TO			
AR1016	1	5.146	5.080	5.220	2161198.646	2523325	16.8
	2	5.693	5.628	5.768	4178857.292	4857400	16.2
	3	5.855	5.789	5.929	2364793.75	2798407.5	18.3
AR1260	1	8.188	8.125	8.265	3467350.625	3974757.5	14.6
	2	8.638	8.573	8.713	3358101.042	4041110	20.3
	3	9.128	9.064	9.204	2352483.542	2623932.5	11.5
TCX		3.984	3.938	4.038	83494935	102731800	23.0
DCB		12.148	12.057	12.257	27829110	34148575	22.7
AR1254	1	7.135	7.069	7.209	2908684.063	2949127.5	1.4
	2	7.697	7.632	7.772	4125638.854	4155285	0.7
	3	8.400	8.336	8.476	2210332.292	2207147.5	-0.1
TCX		3.985	3.938	4.038	83494935	88814800	6.4
DCB		12.147	12.057	12.257	27829110	30098950	8.2

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO
AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

GC Column: CLPPest ID: 0.53 (mm) Calibration Date(s): 08/20/2013 08/20/2013

EPA Sample No. (AR####3##): AR16603ET Date Analyzed: 09/10/2013

Lab Sample ID: AR16603ET Time Analyzed: 3:33

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

EPA Sample No. (AR####3##): AR12543ET Date Analyzed: 09/10/2013

Lab Sample ID: AR12543ET Time Analyzed: 4:27

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		CF	CF	%D
		RT	FROM	TO			
AR1016	1	4.083	4.021	4.161	1014897.708	863080	-15.0
	2	4.616	4.556	4.696	1585285.417	1371785	-13.5
	3	5.223	5.163	5.303	835411.7708	717632.5	-14.1
AR1260	1	6.580	6.521	6.661	1361052.396	1149160	-15.6
	2	7.639	7.581	7.721	1059233.646	854872.5	-19.3
	3	8.003	7.944	8.084	2174675.417	1745940	-19.7
TCX		3.272	3.227	3.327	43179950	39251850	-9.1
DCB		9.730	9.641	9.841	41231887.5	34385425	-16.6
AR1254	1	6.676	6.618	6.758	1192518.438	875700	-26.6
	2	6.894	6.835	6.975	948843.3333	698465	-26.4
	3	7.211	7.153	7.293	1339384.063	987222.5	-26.3
TCX		3.271	3.227	3.327	43179950	33864700	-21.6
DCB		9.728	9.641	9.841	41231887.5	29323125	-28.9

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO
AROCOR CALIBRATION VERIFICATION SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537

GC Column: CLPPestII ID: 0.53 (mm) Calibration Date(s): 08/20/2013 08/20/2013

EPA Sample No. (AR####3##): AR16603ET Date Analyzed: 09/10/2013

Lab Sample ID: AR16603ET Time Analyzed: 3:33

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

EPA Sample No. (AR####3##): AR12543ET Date Analyzed: 09/10/2013

Lab Sample ID: AR12543ET Time Analyzed: 4:27

AROCOR COMPOUND	PEAK	RETENTION	RT WINDOW		CF	CF	%D
		RT	FROM	TO			
AR1016	1	5.145	5.080	5.220	2161198.646	2575442.5	19.2
	2	5.693	5.628	5.768	4178857.292	5069440	21.3
	3	5.854	5.789	5.929	2364793.75	2854842.5	20.7
AR1260	1	8.189	8.125	8.265	3467350.625	3855637.5	11.2
	2	8.638	8.573	8.713	3358101.042	3834682.5	14.2
	3	9.128	9.064	9.204	2352483.542	2434837.5	3.5
TCX		3.985	3.938	4.038	83494935	104708200	25.4
DCB		12.148	12.057	12.257	27829110	29075475	4.5
AR1254	1	7.134	7.069	7.209	2908684.063	3013502.5	3.6
	2	7.696	7.632	7.772	4125638.854	4235092.5	2.7
	3	8.400	8.336	8.476	2210332.292	2195697.5	-0.7
TCX		3.985	3.938	4.038	83494935	91389750	9.5
DCB		12.146	12.057	12.257	27829110	27222925	-2.2

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

SS-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Lab Sample ID: M1537-01A Date(s) Analyzed: 09/09/2013 09/09/2013
 Instrument ID (1): E4 Instrument ID (2): E4
 GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1260 COLUMN 1	1	6.581	6.521	6.661	29.9471	35.127303	
	2	7.640	7.581	7.721	40.6718		
	3	8.003	7.944	8.084	34.7630		
	4						
	5						
COLUMN 2	1	8.188	8.125	8.265	55.2223	56.902624	62.0
	2	8.642	8.573	8.713	71.9622		
	3	9.125	9.064	9.204	43.5233		
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

SS-08

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1537 Mod. Ref No.: _____ SDG No.: SM1537
 Lab Sample ID: M1537-11A Date(s) Analyzed: 09/10/2013 09/10/2013
 Instrument ID (1): E4 Instrument ID (2): E4
 GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.676	6.618	6.758	32.9181	140.256153	
	2	6.895	6.835	6.975	187.4214		
	3	7.211	7.153	7.293	200.4290		
	4						
	5						
COLUMN 1	1	7.131	7.069	7.209	77.2347	94.094742	49.1
	2	7.698	7.632	7.772	90.4215		
	3	8.402	8.336	8.476	114.6280		
	4						
	5						
COLUMN 2	1	7.131	7.069	7.209	77.2347	94.094742	49.1
	2	7.698	7.632	7.772	90.4215		
	3	8.402	8.336	8.476	114.6280		
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1537

SW846 6010C, SW846 7471B, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7471B, SW846 9012B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B

Soil Samples were prepared following procedures in laboratory test code: SW7471B

Soil Samples were prepared following procedures in laboratory test code: SW9012B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on samples: MW-02 (M1537-12BMS) and SS-03 (M1537-03BMS).

Percent recoveries were within the QC limits with the following exceptions:

SS-03 (M1537-03BMS), recovery is above criteria for Zinc at 127% with criteria of (80-120), recovery is below criteria for Arsenic at 48% with criteria of (80-120) and Chromium at 61% with criteria of

(80-120).

MW-02 (M1537-12BMS), recovery is below criteria for Antimony at 60% with criteria of (80-120).

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on samples: MW-02 (M1537-12BPDS) and SS-03 (M1537-03BPDS).

MW-02 (M1537-12BPDS) for Antimony due to recovery of this element outside of QC limits in the matrix spike.

SS-03 (M1537-03BPDS) for Arsenic, Zinc and Chromium due to recovery of this element outside of QC limits in the matrix spike.

E. Duplicate sample:

Duplicate analyses were performed on samples: MW-02 (M1537-12BDUP) and SS-03 (M1537-03BDUP).

Relative percent differences were within the QC limits with the following exceptions:

SS-03 (M1537-03BDUP), Duplicate analysis not within control limit for Antimony, Arsenic, Barium, Chromium, Copper, Lead and Nickel.

MW-02 (M1537-12BDUP), Duplicate analysis not within control limit for Arsenic, Cadmium, Chromium, Lead, Potassium and Zinc.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on samples: MW-02 (M1537-12BSD) and SS-03 (M1537-03BSD).

Percent differences were within the QC limits.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been

authorized by the Laboratory Manager or designated person, as
verified by the following signature.

Signed: Shawn B. Law

Date: 09/19/13

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

MW-02S

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Matrix (soil/water): SOIL

Level (low/med): MED

% Solids for Sample: 84.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Antimony	75-125	12.4	1.1	18.9	60	N	P
Arsenic	75-125	40.4	18.7	18.9	115		P
Barium	75-125	474	73.3	378	106		P
Beryllium	75-125	9.7	0.45	9.4	99		P
Cadmium	75-125	9.4	0.58	9.4	94		P
Chromium	75-125	52.9	16.4	37.8	97		P
Cobalt	75-125	104	10.5	94.2	100		P
Copper	75-125	86.5	35.6	46.9	108		P
Lead	75-125	41.7	23.9	18.9	94		P
Nickel	75-125	131	33.1	94.2	103		P
Selenium	75-125	16.9	0.78 B	18.9	85		P
Silver	75-125	46.6	0.054 U	46.9	99		P
Thallium	75-125	17.0	0.36 B	18.9	88		P
Vanadium	75-125	109	15.6	94.2	99		P
Zinc	75-125	253	137	94.2	123		P
Mercury	75-125	1.2	0.021 B	1.1	110		CV
Cyanide	75-125	4.9	0.45 U	5.0	97		CA

Comments:

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

SS-03S

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Matrix (soil/water): SOIL

Level (low/med): MED

% Solids for Sample: 69.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Antimony		20.0	187	28.4	-588		P
Arsenic	75-125	42.1	28.5	28.4	48	N	P
Barium	75-125	761	162	568	105		P
Beryllium	75-125	15.2	0.67	14.2	103		P
Cadmium	75-125	17.6	2.9	14.2	104		P
Chromium	75-125	223	189	56.8	61	N	P
Cobalt	75-125	161	12.0	142	105		P
Copper	75-125	149	78.0	70.6	101		P
Lead		339	2320	28.4	-6967		P
Nickel	75-125	200	54.0	142	103		P
Selenium	75-125	27.1	1.2 B	28.4	91		P
Silver	75-125	74.4	1.3 B	70.6	104		P
Thallium	75-125	27.5	0.99 B	28.4	93		P
Vanadium	75-125	168	23.8	142	102		P
Zinc	75-125	464	283	142	127	N	P
Mercury	75-125	1.3	0.15	1.2	97		CV
Cyanide	75-125	7.2	0.54 U	6.1	118		CA

Comments:

U.S. EPA - CLP

5B

EPA SAMPLE NO.

POST DIGEST SPIKE SAMPLE RECOVERY

SS-03A

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1537Matrix (soil/water): SOILLevel (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spike Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic		896.84	456.31	455.0	97		P
Chromium		3794.92	3018.39	1130.0	69		P
Zinc		6592.75	4533.67	2270.0	91		P

Comments:

U.S. EPA - CLP

6

EPA SAMPLE NO.

DUPLICATES

MW-02D

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1537Matrix (soil/water): SOILLevel (low/med): MED% Solids for Sample: 84.8% Solids for Duplicate: 84.8Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		11590.6086		12913.6634		10.8		P
Antimony	0.8	1.0596		1.2800		18.8		P
Arsenic		18.7326		23.3696		22	*	P
Barium		73.3385		75.6740		3.1		P
Beryllium	0.2	0.4485		0.4898		8.8		P
Cadmium	0.2	0.5801		0.9866		51.9	*	P
Calcium		2598.4717		2664.6360		2.5		P
Chromium		16.4105		24.3985		39.1	*	P
Cobalt		10.5416		11.1470		5.6		P
Copper		35.5992		32.2166		10		P
Iron		26924.6324		32446.2716		18.6		P
Lead		23.8580		44.8146		61	*	P
Magnesium		3885.2714		4557.0474		15.9		P
Manganese		522.3539		484.9778		7.4		P
Nickel		33.0914		35.2576		6.3		P
Potassium		740.4368		1069.2495		36.3	*	P
Selenium		0.7809	B	1.1398	B	37.4		P
Silver		0.0540	U	0.0530	U			P
Sodium	42.0	40.0063	B	42.3351		5.7		P
Thallium		0.3609	B	0.2579	B	33.3		P
Vanadium		15.6417		18.0428		14.3		P
Zinc		136.6331		304.1449		76	*	P
Mercury		0.0211	B	0.0177	B	17.5		CV
Cyanide		0.4500	U	0.4600	U			CA

U.S. EPA - CLP

6

EPA SAMPLE NO.

DUPLICATES

SS-03D

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1537Matrix (soil/water): SOILLevel (low/med): MED% Solids for Sample: 69.0% Solids for Duplicate: 69.0Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		13468.4247		11790.8172		13.3		P
Antimony	1.2	187.0204		2.5515		194.6	*	P
Arsenic		28.5039		11.5442		84.7	*	P
Barium		162.3248		132.5082		20.2	*	P
Beryllium	0.3	0.6712		0.5749		15.5		P
Cadmium		2.8819		2.6001		10.3		P
Calcium		1903.9432		1675.7669		12.7		P
Chromium		188.5453		133.9492		33.9	*	P
Cobalt	3.1	11.9722		10.8367		10		P
Copper		78.0238		62.9076		21.5	*	P
Iron		26124.5809		23352.3070		11.2		P
Lead		2319.2564		396.5186		141.6	*	P
Magnesium		3499.2132		3024.5884		14.6		P
Manganese		877.2392		809.7194		8		P
Nickel		54.0364		42.7265		23.4	*	P
Potassium		685.0634		601.1161		13.1		P
Selenium		1.1757	B	0.7900	U	200		P
Silver		1.3050	B	0.2266	B	140.8		P
Sodium		35.1354	B	28.5867	B	20.6		P
Thallium		0.9864	B	0.4326	B	78.1		P
Vanadium		23.8279		22.1619		7.2		P
Zinc		283.1975		257.5589		9.5		P
Mercury	0.1	0.1517		0.1531		0.9		CV
Cyanide		0.5400	U	0.5400	U			CA

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc.

Contract:

11176967.00002

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

MB-73404

OPTIMA3_130830A

Analyte	Initial Calibration		Continuing Calibration						Preparation		M
	Blank (ug/L)		Blank (ug/L)		Blank (ug/L)		Blank				
		C	08/30/13 8:45	C	08/30/13 9:22	C	08/30/13 10:08	C		C	
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	1.200	U	P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	0.425	B	P
Arsenic	4.3	U	4.3	U	4.3	U	4.3	U	0.410	U	P
Barium	1.1	U	2.6	B	3.0	B	3.7	B	0.049	B	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.002	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.015	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	6.100	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.8	B	0.059	B	P
Cobalt	0.7	U	0.7	U	1.1	B	1.0	B	0.044	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	0.170	B	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	1.500	U	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	0.170	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	0.630	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	0.130	U	P
Nickel	0.9	U	0.9	B	0.8	U	0.8	U	0.043	U	P
Potassium	87.2	B	204.6	B	76.0	U	76.0	U	6.730	B	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	0.640	U	P
Silver	6.9	U	6.9	U	6.9	U	6.9	U	0.079	B	P
Sodium	61.6	B	73.8	B	35.0	B	46.5	B	2.863	B	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	0.220	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	0.060	U	P
Zinc	4.9	U	4.9	U	4.9	U	8.1	B	0.380	B	P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc.

Contract:

11176967.00002

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1537

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

MB-73505

OPTIMA3_130906C

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	09/06/13 13:12	C	09/06/13 13:53	C		C		C	
Aluminum	66.0	U	66.0	U	66.0	U			1.200	U	P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	0.380	U	P
Arsenic	4.3	U	4.3	U	4.3	U			0.410	U	P
Barium	3.1	B	1.1	U	2.4	B			0.031	U	P
Beryllium	0.3	U	0.3	U	0.3	U			0.002	U	P
Cadmium	0.9	U	0.9	U	0.9	U			0.027	B	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	6.100	U	P
Chromium	0.6	U	0.6	U	0.6	U			0.025	B	P
Cobalt	0.9	B	0.7	U	0.7	B			0.044	U	P
Copper	3.6	U	3.6	U	3.6	U			0.110	U	P
Iron	31.0	U	31.0	U	51.2	B	31.0	U	1.500	U	P
Lead	4.2	U	4.2	U	4.2	U			0.234	B	P
Magnesium	76.0	U	76.0	U	76.0	U			0.706	B	P
Manganese	10.0	U	10.0	U	10.0	U			0.130	U	P
Nickel	0.9	U	0.8	U	0.8	U			0.043	U	P
Potassium	87.9	B	145.7	B	76.0	U			3.400	U	P
Selenium	12.0	U	12.0	U	12.0	U			0.640	U	P
Silver	6.9	U	6.9	U	6.9	U			0.064	U	P
Sodium	29.0	U	-31.3	B	-36.1	B			1.100	U	P
Thallium	6.2	U	6.2	U	6.2	U			0.220	U	P
Vanadium	1.1	U	1.1	U	1.1	U			0.060	U	P
Zinc	4.9	U	4.9	U	4.9	U			0.180	U	P

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1537

SW846 7196A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 7196A

IV. PREPARATION

Samples were prepared following procedures in laboratory test code:
SW846 7196A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: SPEC2
Instrument Type: SP

Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-02 (M1537-12BMS), MW-02 (M1537-12BMSI), SS-03 (M1537-03BMS), SS-03 (M1537-03BMSD), SS-03 (M1537-03BPDS) and SS-03 (M1537-03BMSI).

Percent recoveries were within the QC limits with the following exceptions:

SS-03 (M1537-03BMS), recovery is below criteria for Chromium, Hexavalent at 0% with criteria of (75-125).

SS-03 (M1537-03BMSD), recovery is below criteria for Chromium, Hexavalent at 0% with criteria of (75-125).

SS-03 (M1537-03BMSI), recovery is below criteria for Chromium, Hexavalent at 2% with criteria of (30-150).

SS-03 (M1537-03BPDS), recovery is below criteria for Chromium, Hexavalent at 67.2% with criteria of (85-115).

SS-03 (M1537-03BPDS) was repeated, recovery is below criteria for Chromium, Hexavalent at 64.9% with criteria of (85-115).

Replicate RPDs were within the advisory QC limits.

D. Duplicate sample:

Duplicate analyses were performed on samples: MW-02 (M1537-12BDUP) and SS-03 (M1537-03BDUP).

Relative percent differences were within the QC limits.

E. Dilutions:

The following samples were analyzed at dilution:

MW-02 (M1537-12BMSI), dilution factor: 10 for Chromium, Hexavalent

F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 09/13/2013

ANALYTICAL QC SUMMARY REPORT

Client: URS Corporation

Work Order: M1537

SW7196_S

Project: Triple Cities Metal Finishing

SW846 7196A -- CR+ by Colorimetric Method

Sample ID: MB-73453	SampType: MBLK	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: MB-73453	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 13:48	SeqNo: 1963331
Analyte	Result	MDL	SPK value	SPK Ref Val
Chromium, Hexavalent	ND	4.0	20.00	0
		RL	%REC LowLimit HighLimit	RPD Ref Val
		4.0	98.1 80 120	%RPD RPDLimit

Sample ID: LCS-73453	SampType: LCS	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: LCS-73453	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 13:50	SeqNo: 1963332
Analyte	Result	MDL	SPK value	SPK Ref Val
Chromium, Hexavalent	19.62	4.0	20.00	0
		RL	%REC LowLimit HighLimit	RPD Ref Val
		4.0	98.1 80 120	%RPD RPDLimit

Sample ID: LCSi-73453	SampType: LCSi	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: LCSi-73453	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 13:52	SeqNo: 1963333
Analyte	Result	MDL	SPK value	SPK Ref Val
Chromium, Hexavalent	339.1	40	322.0	0
		RL	%REC LowLimit HighLimit	RPD Ref Val
		40	105 80 120	%RPD RPDLimit

Sample ID: M1537-03BDUP	SampType: DUP	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: SS-03	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 14:00	SeqNo: 1963337
Analyte	Result	MDL	SPK value	SPK Ref Val
Chromium, Hexavalent	ND	6.1	0	0
		RL	%REC LowLimit HighLimit	RPD Ref Val
		6.1	0 0 0 0	%RPD RPDLimit

Sample ID: M1537-12BDUP	SampType: DUP	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: MW-02	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 14:31	SeqNo: 1963353
Analyte	Result	MDL	SPK value	SPK Ref Val
Chromium, Hexavalent	ND	4.6	0	0
		RL	%REC LowLimit HighLimit	RPD Ref Val
		4.6	0 0 0 0	%RPD RPDLimit

Sample ID: M1537-03BMS	SampType: MS	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: SS-03	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 14:02	SeqNo: 1963338
Analyte	Result	MDL	SPK value	SPK Ref Val
Chromium, Hexavalent	ND	5.8	29.22	0
		RL	%REC LowLimit HighLimit	RPD Ref Val
		5.8	0 75 125	%RPD RPDLimit

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: URS Corporation
Work Order: M1537

Work Order: M1537

Project: Triple Cities Metal Finishing

SW7196 S

SW846 7196A -- CR+ by Colorimetric Method

Sample ID: M1537-12BMS	SampType: MS	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: MW-02	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 14:32	SeqNo: 1963354
Analyte	Result	MDL	SPK Ref Val	SPK value
Chromium, Hexavalent	18.83	4.9	0	24.45
			%REC	LowLimit HighLimit
			77.0	75 125 0
Sample ID: M1537-03BMSD	SampType: MSD	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: SS-03	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 14:04	SeqNo: 1963339
Analyte	Result	MDL	SPK Ref Val	SPK value
Chromium, Hexavalent	ND	5.8	0	28.75
			%REC	LowLimit HighLimit
			0	75 125 0
Sample ID: M1537-03BPDS	SampType: PDS	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: SS-03	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 14:09	SeqNo: 1963342
Analyte	Result	MDL	SPK Ref Val	SPK value
Chromium, Hexavalent	18.51	5.5	0	27.55
			%REC	LowLimit HighLimit
			67.2	85 115 0
Sample ID: M1537-03BPDS	SampType: PDS	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: SS-03	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 14:11	SeqNo: 1963343
Analyte	Result	MDL	SPK Ref Val	SPK value
Chromium, Hexavalent	17.87	5.5	0	27.55
			%REC	LowLimit HighLimit
			64.9	85 115 0
Sample ID: M1537-12BPDS	SampType: PDS	TestCode: SW7196_S	Prep Date: 09/03/13 12:45	Run ID: SPEC2_130904A
Client ID: MW-02	Batch ID: 73453	Units: mg/Kg	Analysis Date: 09/04/13 14:36	SeqNo: 1963356
Analyte	Result	MDL	SPK Ref Val	SPK value
Chromium, Hexavalent	22.43	4.6	0	22.93
			%REC	LowLimit HighLimit
			97.8	85 115 0

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Qualifiers:	ND - Not Detected at the MDL	S - Recovery outside accepted recovery limits	MDL - Method Detection Limit	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	RL - Reporting Limit	
13.09.12.A				

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1594

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW5030B
Soil Samples were prepared following procedures in laboratory test code:
SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-73595 in batch 73595, recovery is above criteria for 1,4-Dioxane at 163% with criteria of (70-130).

LCS-73602 in batch 73602, recovery is above criteria for 1,4-Dioxane at 144% with criteria of (70-130) and trans-1,3-Dichloropropene at 127% with criteria of (65-125).

LCSD-73595 in batch 73595, recovery is above criteria for 1,4-Dioxane at 183% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

Manual integration was performed on the following:

GS-08 (M1594-09C) Ethylbenzene due to M6

VSTD00110H Bromomethane due to M3

VSTD0051V 1,4-Dioxane due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 9/18/2013 _____

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-73595

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: M1594

Mod. Ref No.:

SDG No.: SM1594

Lab Sample ID: LCSD-73595

LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS	
							RPD	REC.
1,3-Dichlorobenzene	50.0000	44.7608	90		9		40	70 - 125
1,4-Dichlorobenzene	50.0000	45.0777	90		8		40	70 - 125
n-Butylbenzene	50.0000	45.7650	92		10		40	65 - 140
1,2-Dichlorobenzene	50.0000	45.0451	90		8		40	75 - 120
1,2-Dibromo-3-chloropropan	50.0000	54.1334	108		11		40	40 - 135
1,2,4-Trichlorobenzene	50.0000	45.9490	92		13		40	65 - 130
1,2,3-Trichlorobenzene	50.0000	49.3988	99		14		40	60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	49.2905	99		18		40	70 - 130
1,4-Dioxane	1000.0000	1830.5950	183	*	12		40	70 - 130
Cyclohexane	50.0000	46.4491	93		8		40	70 - 130
Methyl acetate	50.0000	56.4216	113		9		40	70 - 130
Methylcyclohexane	50.0000	47.0697	94		9		40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 58 outside limits

Spike Recovery: 1 out of 58 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-73595

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: M1594

Mod. Ref No.:

SDG No.: SM1594

Lab Sample ID: LCS-73595

LCS Lot No.:

Date Extracted: 09/11/2013

Date Analyzed (1): 09/11/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2,4-Trimethylbenzene	50.0000	0.0000	43.9622	88		65 - 135
sec-Butylbenzene	50.0000	0.0000	42.4840	85		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	41.0229	82		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	41.3020	83		70 - 125
n-Butylbenzene	50.0000	0.0000	41.6792	83		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	41.3728	83		75 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	48.4174	97		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	40.6689	81		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	42.8933	86		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	41.6122	83		70 - 130
1,4-Dioxane	1000.0000	0.0000	1634.4742	163	*	70 - 130
Cyclohexane	50.0000	0.0000	42.9307	86		70 - 130
Methyl acetate	50.0000	0.0000	51.7108	103		70 - 130
Methylcyclohexane	50.0000	0.0000	42.9154	86		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 58 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-73602

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Lab Sample ID: LCS-73602 LCS Lot No.: _____
Date Extracted: 09/12/2013 Date Analyzed (1): 09/12/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2,4-Trimethylbenzene	2500.0000	0.0000	2442.6063	98		65 - 135
sec-Butylbenzene	2500.0000	0.0000	2367.8767	95		65 - 130
1,3-Dichlorobenzene	2500.0000	0.0000	2407.8835	96		70 - 125
1,4-Dichlorobenzene	2500.0000	0.0000	2441.8892	98		70 - 125
n-Butylbenzene	2500.0000	0.0000	2405.9076	96		65 - 140
1,2-Dichlorobenzene	2500.0000	0.0000	2426.1622	97		75 - 120
1,2-Dibromo-3-chloropropan	2500.0000	0.0000	2583.7123	103		40 - 135
1,2,4-Trichlorobenzene	2500.0000	0.0000	2529.6438	101		65 - 130
1,2,3-Trichlorobenzene	2500.0000	0.0000	2561.8418	102		60 - 135
1,1,2-Trichloro-1,2,2-trif	2500.0000	0.0000	2702.9344	108		70 - 130
1,4-Dioxane	50000.0000	0.0000	71985.5815	144	*	70 - 130
Cyclohexane	2500.0000	0.0000	2759.0177	110		70 - 130
Methyl acetate	2500.0000	0.0000	2931.2095	117		70 - 130
Methylcyclohexane	2500.0000	0.0000	2813.9706	113		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 58 outside limits

COMMENTS:

VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM

Case No.: M1594

SAS No.:

SDG No.:

SM1594

Instrument ID: V10

Calibration Date(s): 09/05/2013

09/05/2013

Heated Purge: (Y/N) N

8:52

12:06

Purge Volume: 5

(mL)

GC Column: DB-624

ID: 0.25

(mm)

Length: 30

(mm)

LAB FILE ID: RRF005 = V8D0284.D RRF020 = V8D0283.D RRF050 = V8D0282.D RRF100 = V8D0288.D RRF080 = V8D0289.D

RRF001 = V8D0286.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF080	RRF001	RRF	% RSD
1,4-Dioxane	0.004	0.004	0.003	0.003	0.003	0.002	0.003	21.4
Cyclohexane	0.716	0.800	0.683	0.730	0.640	0.671	0.707	7.9
Methyl acetate	0.493	0.490	0.452	0.425	0.404	0.487	0.458	8.3
Methylcyclohexane	0.457	0.497	0.448	0.465	0.405	0.430	0.450	7.0

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
 Instrument ID: V1 Calibration Date(s): 09/10/2013 09/10/2013
 Heated Purge: (Y/N) Y Calibration Time(s): 19:21 21:02
 Purge Volume: 10.0 (mL)
 GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____	RRF005 = V1M4311.D	RRF020 = V1M4312.D					
RRF050 = V1M4313.D	RRF100 = V1M4314.D	RRF200 = V1M4315.D					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF	%RSD
Isopropylbenzene	2.400	2.272	2.132	2.289	1.961	2.211	7.6
1,1,2,2-Tetrachloroethane	1.295	1.197	1.282	1.309	1.543	1.325	9.8
n-Propylbenzene	1.340	1.266	1.189	1.327	1.548	1.334	10.0
1,3,5-Trimethylbenzene	4.536	4.296	3.856	4.183	3.585	4.091	9.1
tert-Butylbenzene	4.561	4.212	3.865	4.193	4.908	4.348	9.2
1,2,4-Trimethylbenzene	4.553	4.091	3.758	4.092	3.441	3.987	10.4
sec-Butylbenzene	5.893	5.525	4.922	5.376	5.422	5.428	6.4
1,3-Dichlorobenzene	2.368	2.199	2.049	2.351	2.557	2.305	8.3
1,4-Dichlorobenzene	2.472	2.195	2.098	2.258	2.388	2.282	6.5
n-Butylbenzene	4.633	4.322	3.857	4.093	4.157	4.213	6.8
1,2-Dichlorobenzene	2.073	1.989	1.938	2.103	2.510	2.123	10.7
1,2-Dibromo-3-chloropropane	0.206	0.184	0.211	0.196	0.244	0.208	10.9
1,2,4-Trichlorobenzene	1.163	1.108	1.009	1.082	1.261	1.125	8.4
1,2,3-Trichlorobenzene	0.957	0.915	0.820	0.912	1.059	0.933	9.3
1,1,2-Trichloro-1,2,2-trifluoroethane	0.404	0.363	0.364	0.384	0.352	0.373	5.6
1,4-Dioxane	0.001	0.002	0.002	0.002	0.002	0.002	27.9
Cyclohexane	0.875	0.798	0.718	0.829	0.692	0.782	9.8
Methyl acetate	0.438	0.382	0.434	0.428	0.364	0.409	8.3
Methylcyclohexane	0.667	0.645	0.544	0.649	0.590	0.619	8.2

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1594

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3
Instrument Type: GCMS-SEMI

Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973
GC Column used: 30 m X 0.25 mm ID [0.25 um thickness] Rxi-5sil MS capillary column.

Instrument Code: S6
Instrument Type: GCMS-Semi
Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973
GC Column used: 30 m X 0.25 mm ID [0.25 um thickness] Rxi-5sil MS capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

CC-04 (M1594-14A), recovery is below criteria for 2,4,6-Tribromophenol at 30% with criteria of (35-125).

FD-082913-CC (M1594-16A), recovery is below criteria for 2,4,6-Tribromophenol at 30% with criteria of (35-125).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: CC-01 (M1594-11AMS) and CC-01 (M1594-11AMSD).

Percent recoveries were within the QC limits with the following exceptions:

CC-01 (M1594-11AMS), recovery is below criteria for 2,6-Dinitrotoluene at 42% with criteria of (50-110).

CC-01 (M1594-11AMSD), recovery is below criteria for 2,6-Dinitrotoluene at 42% with criteria of (50-110).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

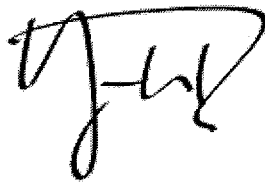
- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

Manual integrations were performed on the following:

SSTD0103T Benzo(b)fluoranthene , Benzo(k)fluoranthene due to M2

SSTD0256T 2,4-Dinitrophenol due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 9/19/13 _____

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPP6S

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Lab File ID: S6B5670F.D DFTPP Injection Date: 09/17/2013
Instrument ID: S6 DFTPP Injection Time: 11:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	57.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	58.3
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	10.0 - 80.0% of mass 198	49.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	31.2
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	15.4
442	50.0 - 100% of mass 198	84.6
443	15.0 - 24.0% of mass 442	16.8 (19.8)2

1 - Value is % mass 69

2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0256T	SSTD0256T	S6B5672A.D	09/17/2013	13:28
02	MB-73606	MB-73606	S6B5689.D	09/17/2013	20:13
03	MW-03	M1594-01A	S6B5690.D	09/17/2013	20:36
04	GS-01	M1594-03A	S6B5691.D	09/17/2013	21:00
05	GS-02	M1594-04A	S6B5692.D	09/17/2013	21:23
06	GS-03	M1594-05A	S6B5693.D	09/17/2013	21:46
07	GS-04	M1594-06A	S6B5694.D	09/17/2013	22:09
08	GS-05	M1594-07A	S6B5695.D	09/17/2013	22:32
09	GS-06	M1594-08A	S6B5696.D	09/17/2013	22:55
10	GS-08	M1594-09A	S6B5697.D	09/17/2013	23:18
11	FD-082913-GS	M1594-10A	S6B5698.D	09/17/2013	23:41

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594

Instrument ID: S6 Calibration Date: 09/17/2013 Time: 13:28

Lab File ID: S6B5672A.D Init. Calib. Date(s): 09/04/2013 09/16/2013

EPA Sample No. (SSTD020##) SSTD0256T Init. Calib. Time(s): 14:57 19:16

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenol	1.834	1.662	0.800	-9.4	20.0
Bis(2-chloroethyl)ether	0.884	0.847	0.700	-4.1	20.0
2-Chlorophenol	1.308	1.282	0.800	-2.0	20.0
2-Methylphenol	1.284	1.244	0.700	-3.1	20.0
2,2'-oxybis(1-Chloropropane)	1.479	1.259	0.010	-14.9	20.0
4-Methylphenol	1.345	1.185	0.600	-11.9	20.0
N-Nitroso-di-n-propylamine	1.207	1.144	0.500	-5.2	20.0
Hexachloroethane	0.653	0.644	0.300	-1.4	20.0
Nitrobenzene	0.462	0.477	0.200	3.3	20.0
Isophorone	0.773	0.786	0.400	1.7	20.0
2-Nitrophenol	0.204	0.209	0.100	2.6	20.0
2,4-Dimethylphenol	0.412	0.387	0.200	-6.3	20.0
2,4-Dichlorophenol	0.289	0.307	0.200	6.2	20.0
Naphthalene	1.050	1.060	0.700	1.0	20.0
4-Chloroaniline	0.428	0.437	0.010	2.0	20.0
Bis(2-chloroethoxy)methane	0.448	0.429	0.300	-4.2	20.0
Hexachlorobutadiene	0.231	0.240	0.010	3.8	20.0
4-Chloro-3-methylphenol	0.356	0.373	0.200	4.7	20.0
2-Methylnaphthalene	0.712	0.713	0.400	0.2	20.0
Hexachlorocyclopentadiene	0.310	0.286	0.050	-7.5	20.0
2,4,6-Trichlorophenol	0.381	0.373	0.200	-2.0	20.0
2,4,5-Trichlorophenol	0.396	0.367	0.200	-7.4	20.0
2-Chloronaphthalene	1.130	1.085	0.800	-4.0	20.0
2-Nitroaniline	0.416	0.420	0.010	0.9	20.0
Dimethylphthalate	1.363	1.293	0.010	-5.1	20.0
Acenaphthylene	1.872	1.769	0.900	-5.5	20.0
2,6-Dinitrotoluene	0.325	0.316	0.200	-2.7	20.0
3-Nitroaniline	0.320	0.314	0.010	-1.9	20.0
Acenaphthene	1.213	1.141	0.900	-5.9	20.0
2,4-Dinitrophenol	0.129	0.098	0.010	-23.9	20.0
4-Nitrophenol	0.169	0.183	0.010	8.1	20.0
Dibenzofuran	1.620	1.573	0.800	-2.9	20.0
2,4-Dinitrotoluene	0.414	0.409	0.200	-1.3	20.0
Diethylphthalate	1.298	1.250	0.010	-3.7	20.0
4-Chlorophenyl-phenylether	0.713	0.694	0.400	-2.7	20.0
Fluorene	1.410	1.353	0.900	-4.0	20.0
4-Nitroaniline	0.282	0.256	0.010	-9.3	20.0
4,6-Dinitro-2-methylphenol	0.112	0.082	0.010	-27.4	20.0
N-Nitrosodiphenylamine	0.638	0.614	0.010	-3.8	20.0
4-Bromophenyl-phenylether	0.224	0.227	0.100	1.1	20.0
Hexachlorobenzene	0.233	0.233	0.100	0.0	20.0
Pentachlorophenol	0.106	0.063	0.050	-40.6	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1594

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: CC-01 (M1594-11AMS) and CC-01 (M1594-11AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

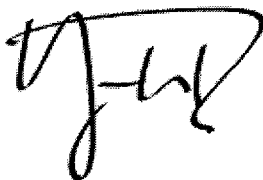
The following samples were manually integrated:

INDC3FO 4,4'-DDT on rear column due to M2

TOXAPH4J6 Toxaphene on rear column due to M3

TOXAPH5J6 Toxaphene on rear column due to M3

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/18/2013 _____

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

GS-05

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1594 Mod. Ref No.: _____ SDG No.: SM1594
Lab Sample ID: M1594-07A Date(s) Analyzed: 09/16/2013 09/16/2013
Instrument ID (1): E6 Instrument ID (2): E6
GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	6.502	6.458	6.598	6.5	55.4
	2	7.617	7.544	7.684	10	

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1594

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E4
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

MW-03 (M1594-01A), recovery is below criteria for Decachlorobiphenyl on front column at 59% with criteria of (60-125).

GS-02 (M1594-04A), recovery is below criteria for Decachlorobiphenyl on front column at 58% with criteria of (60-125).

GS-03 (M1594-05A), recovery is below criteria for Decachlorobiphenyl on front column at 52% with criteria of (60-125).

CC-01 (M1594-11AMSD), recovery is below criteria for Decachlorobiphenyl on front column at 60% with criteria of (60-125).

CC-05 (M1594-15A), recovery is below criteria for Decachlorobiphenyl on front column at 57% with criteria of (60-125).

FD-082913-CC (M1594-16A), recovery is below criteria for Decachlorobiphenyl on front column at 60% with criteria of (60-125).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: CC-01 (M1594-11AMS) and CC-01 (M1594-11AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

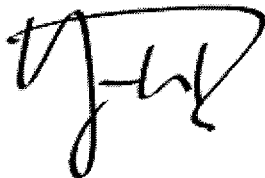
The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', is written over a horizontal line.

Signed: _____

Date: _____ 9/19/13 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1594

SW846 6010C, SW846 7471B, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7471B, SW846 9012B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B
Soil Samples were prepared following procedures in laboratory test code: SW7471B
Soil Samples were prepared following procedures in laboratory test code: SW9012B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS

Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: CC-01 (M1594-11AMS).

Percent recoveries were within the QC limits with the following exceptions:

CC-01 (M1594-11AMS), recovery is below criteria for Antimony at 22% with criteria of (80-120), Arsenic at 70% with criteria of (80-120), Chromium at 0% with criteria of (80-120) and Lead at 20% with criteria of (80-120).

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on sample: CC-01 (M1594-11APDS).

CC-01 (M1594-11APDS) for Antimony, Arsenic, Chromium, and Lead due to recoveries of these elements outside of QC limits in the matrix spike.

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1594

SW846 6010C, SW846 7471B, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7471B, SW846 9012B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3050B
Soil Samples were prepared following procedures in laboratory test code:
SW7471B
Soil Samples were prepared following procedures in laboratory test code:
SW9012B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS

Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: CC-01 (M1594-11AMS).

Percent recoveries were within the QC limits with the following exceptions:

CC-01 (M1594-11AMS), recovery is below criteria for Antimony at 22% with criteria of (80-120), Arsenic at 70% with criteria of (80-120), Chromium at 0% with criteria of (80-120) and Lead at 20% with criteria of (80-120).

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on sample: CC-01 (M1594-11APDS).

CC-01 (M1594-11APDS) for Antimony, Arsenic, Chromium, and Lead due to recoveries of these elements outside of QC limits in the matrix spike.

E. Duplicate sample:

Duplicate analyses were performed on sample: CC-01 (M1594-11ADUP).

Relative percent differences were within the QC limits with the following exceptions:

CC-01 (M1594-11ADUP), Duplicate analysis not within control limit for Arsenic, Chromium, Copper, Lead, Potassium, Sodium and Zinc.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on sample: CC-01 (M1594-11ASD).

Percent differences were within the QC limits with the exception of the following:

CC-01 (M1594-11ASD), Serial Dilution analysis not within control limit for Barium, Chromium, Cobalt, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Vanadium and Zinc.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 09/19/13

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

CC-01S

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1594

Matrix (soil/water): SOIL

Level (low/med): MED

% Solids for Sample: 95.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Antimony	75-125	5.1	0.39 U	23.1	22	N	P
Arsenic	75-125	23.9	7.8	23.1	70	N	P
Barium	75-125	471	63.2	462	88		P
Beryllium	75-125	11.0	0.24 B	11.5	94		P
Cadmium	75-125	9.8	0.22 B	11.5	83		P
Chromium	75-125	130	133	46.2	-5	N	P
Cobalt	75-125	106	5.4	115	88		P
Copper	75-125	84.4	39.1	57.3	79		P
Lead	75-125	26.4	21.7	23.1	20	N	P
Nickel	75-125	122	21.2	115	87		P
Selenium	75-125	20.4	0.66 U	23.1	89		P
Silver	75-125	56.0	0.82 B	57.3	96		P
Thallium	75-125	18.7	0.23 U	23.1	81		P
Vanadium	75-125	129	26.4	115	89		P
Zinc		224	464	115	-208		P
Mercury	75-125	0.84	0.012 B	0.82	102		CV
Cyanide	75-125	5.3	0.44 U	4.8	110		CA

Comments:

U.S. EPA - CLP

5B

EPA SAMPLE NO.

POST DIGEST SPIKE SAMPLE RECOVERY

CC-01A

Lab Name: Spectrum Analytical, Inc. Contract: 11176967.00Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SM1594Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spike Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Antimony		377.35	0.38 U	455.0	83		P
Arsenic		559.23	152.24	455.0	89		P
Chromium		3304.97	2590.27	113.0	633		P
Lead		786.95	424.40	455.0	80		P

Comments:

U.S. EPA - CLP

6

EPA SAMPLE NO.

DUPLICATES

CC-01D

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1594Matrix (soil/water): SOILLevel (low/med): MED% Solids for Sample: 95.7% Solids for Duplicate: 95.7Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		9306.3108		8885.5654		4.6		P
Antimony		0.3900	U	0.3900	U			P
Arsenic	1.0	7.7967		2.5345		101.9	*	P
Barium		63.1921		54.9139		14		P
Beryllium		0.2358	B	0.2523	B	6.8		P
Cadmium		0.2151	B	0.1550	B	32.5		P
Calcium		86452.2790		93411.8701		7.7		P
Chromium		132.6542		103.4129		24.8	*	P
Cobalt	2.6	5.4002		5.5680		3.1		P
Copper		39.0551		27.6496		34.2	*	P
Iron		12072.1705		13473.8575		11		P
Lead		21.7343		5.6707		117.2	*	P
Magnesium		7689.3190		7667.7280		0.3		P
Manganese		443.0801		388.0174		13.3		P
Nickel		21.1922		21.7307		2.5		P
Potassium		1254.0536		991.4186		23.4	*	P
Selenium		0.6600	U	0.6600	U			P
Silver		0.8176	B	0.5135	B	45.7		P
Sodium		405.8190		537.5376		27.9	*	P
Thallium		0.2300	U	0.2300	U			P
Vanadium		26.3799		22.8969		14.1		P
Zinc		464.0289		228.3733		68.1	*	P
Mercury		0.0120	B	0.0061	B	65.2		CV
Cyanide		0.4400	U	0.7967	B	200		CA

U.S. EPA - CLP

9

EPA SAMPLE NO.

ICP SERIAL DILUTIONS

CC-01

Lab Name: Spectrum Analytical, Inc.

Contract: 11176967.00

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1594

Matrix (soil/water): SOIL

Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	181719.85		190148.77		5		P
Antimony	9.30	U	46.50	U			P
Arsenic	152.24		170.98		12		P
Barium	1233.92		1401.81		14	E	P
Beryllium	4.60	B	5.60		22		P
Cadmium	4.20	B	4.45	U	100		P
Calcium	84405.60		80804.00		4		P
Chromium	2590.27		2977.14		15	E	P
Cobalt	105.45		124.64		18	E	P
Copper	762.61		806.24		6		P
Iron	235727.47		280192.18		19	E	P
Lead	424.40		487.61		15	E	P
Magnesium	150145.63		176194.06		17	E	P
Manganese	8651.81		10109.66		17	E	P
Nickel	413.81		488.37		18	E	P
Potassium	24487.30		27270.95		11	E	P
Selenium	12.00	U	60.00	U			P
Silver	15.97	B	34.50	U	100		P
Sodium	7924.23		8532.75		8		P
Thallium	6.20	U	31.00	U			P
Vanadium	515.11		582.76		13	E	P
Zinc	9060.87		10969.26		21	E	P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc.

Contract:

11176967.00002

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: SM1594

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

MB-73590

OPTIMA3_130912A

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	09/12/13 8:40	C	09/12/13 9:14	C	09/12/13 9:56	C		C	M
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	2.954	B	P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	0.380	U	P
Arsenic	4.3	U	4.6	B	4.3	U	4.3	U	0.410	U	P
Barium	3.8	B	2.4	B	2.9	B	2.9	B	0.127	B	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.004	B	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.015	U	P
Calcium	141.9	B	219.4	B	141.6	B	125.1	B	18.481	B	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.051	B	P
Cobalt	1.0	B	0.7	B	0.8	B	0.8	B	0.044	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	0.124	B	P
Iron	31.0	U	31.0	U	39.1	B	97.6	B	4.326	B	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	0.170	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	3.338	B	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	0.130	U	P
Nickel	1.1	B	0.8	U	1.0	B	0.8	U	0.043	U	P
Potassium	76.0	U	203.5	B	96.0	B	76.0	U	4.307	B	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	0.640	U	P
Silver	6.9	U	6.9	U	6.9	U	6.9	U	0.064	U	P
Sodium	51.7	B	37.6	B	36.9	B	29.0	U	1.837	B	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	0.220	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	0.060	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	0.549	B	P

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1594

SW846 7196A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 7196A

IV. PREPARATION

Samples were prepared following procedures in laboratory test code:
SW846 7196A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: SPEC2
Instrument Type: SP

Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: CC-01 (M1594-11AMS) and CC-01 (M1594-11AMSI).

Percent recoveries were within the QC limits.

D. Duplicate sample:

Duplicate analyses were performed on sample: CC-01 (M1594-11ADUP).

Relative percent differences were within the QC limits the following exceptions:

CC-01 (M1594-11ADUP), , Relative Percent Difference is greater than reported RPD limit, recovery is below criteria for Chromium, Hexavalent at 32.9% with criteria of (0-20).

E. Dilutions:

The following samples were analyzed at dilution:

GS-04 (M1594-06B), dilution factor: 25 for Chromium, Hexavalent
CC-01 (M1594-11AMSI), dilution factor: 25 for Chromium, Hexavalent
CC-04 (M1594-14A), dilution factor: 250 for Chromium, Hexavalent

CC-05 (M1594-15A), dilution factor: 2 for Chromium, Hexavalent
FD-082913-CC (M1594-16A), dilution factor: 50 for Chromium,
Hexavalent

F. Samples:

No other unusual occurrences were noted during sample analysis.

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A handwritten signature in black ink, consisting of a series of loops and a final upward stroke, positioned above a horizontal line.

Signed: _____

Date: 09/18/2013

M1607

CHAIN OF CUSTODY RECORD

PROJECT NO.	SITE NAME
11176 967.00003	Elmire - Triple Cities
SAMPLERS (PRINT/SIGNATURE)	

Tim Tebow is / Tim Tebow

DELIVERY SERVICE: Fedex AIRBILL NO.: 8035 3913 1947

Fedex AIRBILL NO.: 70

NO.# OF
NERS

BOTTLE TYPE AND PRESERVATIVE

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2000

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207
71
71
207
208

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4171

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[illegible]

[illegible][illegible]

WL - LEACHATE
GS - SOIL GAS
WS - SURFACE WATER
WO - OCEAN WATER

WC - DRILLING WATER	WQ - WATER FIELD
SAMPLE	

(# - SEQUENTIAL NUMBER (FROM 1 TO 9))

DATE	TIME	SPECIAL INS
11		

8/21/13	10:10	for

DATE	TIME

920			

71

100

120

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URS-F-075C/1 OF 1/ColCR/GCM

25

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1607

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-73648 in batch 73648, recovery is below criteria for 1,4-Dioxane at 47% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

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A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 9/19/2013 _____

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-73648

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM

Case No.: M1607

Mod. Ref No.:

SDG No.: SM1607

Lab Sample ID: LCS-73648

LCS Lot No.:

Date Extracted: 09/13/2013

Date Analyzed (1): 09/13/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2,4-Trimethylbenzene	50.0000	0.0000	49.9180	100		65 - 135
sec-Butylbenzene	50.0000	0.0000	49.6176	99		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	46.4853	93		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	46.9012	94		70 - 125
n-Butylbenzene	50.0000	0.0000	46.7590	94		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	45.8786	92		75 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	43.6562	87		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	45.4912	91		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	42.6945	85		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	46.1175	92		70 - 130
1,4-Dioxane	1000.0000	0.0000	469.0636	47	*	70 - 130
Methylcyclohexane	50.0000	0.0000	48.9625	98		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 56 outside limits

COMMENTS:

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA
Contract:

Lab Name: Spectrum Analytical, Inc.

Lab Code: MITKEM Case No.: M1607 SAS No.: SDG No.: SM1607

Instrument ID: V1 Calibration Date(s): 09/13/2013 09/13/2013

Heated Purge: (Y/N) Y Calibration Times: 19:33 21:39

Purge Volume: 10 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V1M4480.D RRF020 = V1M4479.D RRF050 = V1M4484.D RRF100 = V1M4482.D RRF200 = V1M4481.D
RRF080 = V1M4483.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF080	RRF	% RSD
1,4-Dioxane	0.013	0.007	0.005	0.005		0.005	0.007	50.0
Cyclohexane	0.397	0.449	0.476	0.467	0.491		0.456	7.9
Methyl acetate	0.430	0.449	0.393	0.416	0.405		0.418	5.2
Methylcyclohexane	0.390	0.437	0.424	0.428	0.446		0.425	5.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1607

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3
Instrument Type: GCMS-SEMI

Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'JHL' with a stylized flourish at the end.

Signed: _____

Date: _____ 9/18/2013 _____

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-73450

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Lab File ID: S3I7532.D Lab Sample ID: MB-73450
Instrument ID: S3 Date Extracted: 09/03/2013
Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 09/04/2013
Level: (LOW/MED) LOW Time Analyzed: 12:36
Extraction: (Type) SONC GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-73450	LCS-73450	S3I7533.D	09/04/2013
02	GS-07	M1607-01A	S3I7560.D	09/04/2013

COMMENTS:

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-73450

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-73450
Sample wt/vol: 15.0 (g/mL) G Lab File ID: S3I7532.D
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____
Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/03/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/04/2013
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	140	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
92-52-4	1,1'-Biphenyl	330	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
58-90-2	2,3,4,6-Tetrachlorophenol	330	U
98-86-2	Acetophenone	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
105-60-2	Caprolactam	330	U

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

CLIENT SAMPLE NO.

DFTPP3R

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607
Lab File ID: S3I7530A.D DFTPP Injection Date: 09/04/2013
Instrument ID: S3 DFTPP Injection Time: 11:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	40.0
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	47.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than mass 443	8.3
442	50.0 - 100% of mass 198	57.1
443	15.0 - 24.0% of mass 442	11.5 (20.2)2

1 - Value is % mass 69

2 - Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0253R	SSTD0253R	S3I7531.D	09/04/2013	11:57
02	MB-73450	MB-73450	S3I7532.D	09/04/2013	12:36
03	LCS-73450	LCS-73450	S3I7533.D	09/04/2013	12:57
04	GS-07	M1607-01A	S3I7560.D	09/04/2013	22:53

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1607 Mod. Ref No.: _____ SDG No.: SM1607

Instrument ID: S3 Calibration Date: 09/04/2013 Time: 11:57

Lab File ID: S3I7531.D Init. Calib. Date(s): 08/22/2013 08/22/2013

EPA Sample No. (SSTD020##) SSTD0253R Init. Calib. Time(s): 15:10 17:08

GC Column: Rxi-5sil MS ID: 0.25 (mm)

COMPOUND	RRF	RRF025	MIN RRF	%D	MAX %D
Phenol	1.894	1.951	0.800	3.0	20.0
Bis(2-chloroethyl)ether	1.069	0.932	0.700	-12.8	20.0
2-Chlorophenol	1.454	1.545	0.800	6.3	20.0
2-Methylphenol	1.383	1.434	0.700	3.7	20.0
2,2'-oxybis(1-Chloropropane)	1.686	1.651	0.010	-2.1	20.0
4-Methylphenol	1.462	1.546	0.600	5.7	20.0
N-Nitroso-di-n-propylamine	1.106	1.065	0.500	-3.7	20.0
Hexachloroethane	0.583	0.564	0.300	-3.2	20.0
Nitrobenzene	0.391	0.403	0.200	3.2	20.0
Isophorone	0.738	0.732	0.400	-0.8	20.0
2-Nitrophenol	0.174	0.226	0.100	30.0	20.0
2,4-Dimethylphenol	0.401	0.392	0.200	-2.1	20.0
2,4-Dichlorophenol	0.324	0.352	0.200	8.6	20.0
Naphthalene	1.113	1.172	0.700	5.2	20.0
4-Chloroaniline	0.495	0.515	0.010	4.0	20.0
Bis(2-chloroethoxy)methane	0.437	0.444	0.300	1.6	20.0
Hexachlorobutadiene	0.212	0.205	0.010	-3.3	20.0
4-Chloro-3-methylphenol	0.350	0.362	0.200	3.3	20.0
2-Methylnaphthalene	0.764	0.787	0.400	3.0	20.0
Hexachlorocyclopentadiene	0.311	0.210	0.050	-32.2	20.0
2,4,6-Trichlorophenol	0.374	0.422	0.200	12.8	20.0
2,4,5-Trichlorophenol	0.408	0.448	0.200	9.8	20.0
2-Chloronaphthalene	1.113	1.202	0.800	8.0	20.0
2-Nitroaniline	0.318	0.355	0.010	11.7	20.0
Dimethylphthalate	1.372	1.400	0.010	2.0	20.0
Acenaphthylene	1.908	2.007	0.900	5.2	20.0
2,6-Dinitrotoluene	0.286	0.341	0.200	18.9	20.0
3-Nitroaniline	0.351	0.403	0.010	14.5	20.0
Acenaphthene	1.197	1.224	0.900	2.2	20.0
2,4-Dinitrophenol	0.084	0.081	0.010	-3.3	20.0
4-Nitrophenol	0.155	0.184	0.010	19.1	20.0
Dibenzofuran	1.725	1.811	0.800	5.0	20.0
2,4-Dinitrotoluene	0.354	0.460	0.200	30.2	20.0
Diethylphthalate	1.511	1.350	0.010	-10.7	20.0
4-Chlorophenyl-phenylether	0.714	0.733	0.400	2.7	20.0
Fluorene	1.423	1.485	0.900	4.4	20.0
4-Nitroaniline	0.356	0.405	0.010	14.0	20.0
4,6-Dinitro-2-methylphenol	0.087	0.092	0.010	5.3	20.0
N-Nitrosodiphenylamine	0.643	0.675	0.010	4.9	20.0
4-Bromophenyl-phenylether	0.228	0.222	0.100	-2.6	20.0
Hexachlorobenzene	0.246	0.230	0.100	-6.6	20.0
Pentachlorophenol	0.106	0.159	0.050	50.0	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1607

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies

generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

TOXAPH4J6 Toxaphene on rear column due to M3

TOXAPH5J6 Toxaphene on rear column due to M3

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/19/2013 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1607

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E4
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

GS-07 (M1607-01A), recovery is below criteria for Decachlorobiphenyl on front column at 57% with criteria of (60-125).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

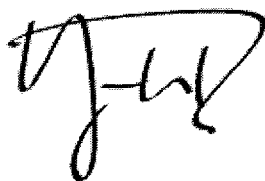
The following samples were manually integrated:

AR12481E4 Aroclor-1248 on front column due to M2

AR12485E4 Aroclor-1248 on front column due to M2

AR12486E4 Aroclor-1248 on front column due to M2

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/19/2013 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1607

SW846 6010C, SW846 7471B, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7471B, SW846 9012B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B

Soil Samples were prepared following procedures in laboratory test code: SW7471B

Soil Samples were prepared following procedures in laboratory test code: SW9012B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 09/20/13

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1607

SW846 7196A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 7196A

IV. PREPARATION

Samples were prepared following procedures in laboratory test code:
SW846 7196A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: SPEC2
Instrument Type: SP

Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

D. Duplicate sample:

No client-requested laboratory duplicate analyses were included in this SDG.

E. Dilutions:

No sample required dilution in this SDG.

F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, consisting of a stylized 'A' or 'M' shape with a horizontal line extending to the right.

Signed: _____

Date: 09/18/2013

CHAIN OF CUSTODY RECORD

PROJECT NO. 11176967.00002 SITE NAME Elmira - Triple Cities
 SAMPLERS (PRINT/SIGNATURE) Tim Izkovich / Tim Afford

DELIVERY SERVICE: FedEx AIRBILL NO.: 8035 3913 1978

LOCATION IDENTIFIER	DATE	TIME	COMPI/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS
MW-01	9/5/13	1717	G	MW-01	WG	7
MW-02	9/5/13	1510	G	MW-02	WG	9
MW-03	9/5/13	1640	G	MW-03	WG	9
MW-03	9/5/13	1640	G	MW-03-MS	WG	9
MW-03	9/5/13	1640	G	MW-03-MSD	WG	9
Field Duplicate	9/5/13	---	G	FD-090513	WG	9
Trip Blank	9/5/13	---	-	TB-090513	-	2

MATRIX CODES	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WM - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WO - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY		

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
<u>Tim Afford</u>	9/5/13	1830	<u>FedEx</u>	9/5/13	
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
<u>FedEx</u>	9/6/13	9:49	<u>George K. Sisk</u>	9/6/13	9:49
Distribution: Original accompanies shipment, copy to coordinator field files 3.2, 4.1, 3.4, C					

For questions contact
 George K. Sisk @
 716-856-5636

URS

LAB Spectrom
 COOLER 1 of 3
 PAGE 1 of 1

BOTTLE TYPE AND PRESERVATIVE

REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (RIPMS ONLY)
M16038	N1			
-01 imp. feed velocity	N1			
-02	N1			
-03	N1			
-03	MS			
-03	SD			
-04 MW-Q2	FD			
-05	TB			

Collected 9/5/13

TESTS

TCL VOCs + 10 TICs	8260B	TCL VOCs + 20 TICs	8270C	TCL PCBs	TAL Metals	Cyanide	Hex.	Chromium

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1638

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times with the following exceptions:

MW-03 (M1638-03AMS) exceed by 4 Days due to instrument issues.
MW-03 (M1638-03AMSD) exceed by 4 Days due to instrument issues.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-73823 in batch 73823, recovery is below criteria for Benzene at 80% with criteria of (80-120).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-03 (M1638-03AMS) and MW-03 (M1638-03AMSD).

Percent recoveries were within the QC limits with the following exceptions:

MW-03 (M1638-03AMS), recovery is above criteria for 2-Hexanone at 135% with criteria of (55-130), recovery is below criteria for 1,1,2-Trichloro-1,2,2-trifluoroethane at 61% with criteria of (70-130), 1,2-Dichloropropane at 72% with criteria of (75-125), Benzene at 68% with criteria of (80-120), cis-1,2-Dichloroethene at 68% with criteria of (70-125), cis-1,3-Dichloropropene at 56% with criteria of (70-130), Cyclohexane at 62% with criteria of (70-130), Methyl acetate at 33% with criteria of (70-130), Methylcyclohexane at 47% with criteria of (70-130), Toluene at 70% with criteria of (75-120) and Trichloroethene at 0% with criteria of (70-125).

MW-03 (M1638-03AMSD), recovery is above criteria for 2-Hexanone at 140% with criteria of (55-130), recovery is below criteria for 1,1,2-Trichloro-1,2,2-trifluoroethane at 64% with criteria of (70-130), Benzene at 71% with criteria of (80-120), cis-1,3-Dichloropropene at 60% with criteria of (70-130), Cyclohexane at 64% with criteria of (70-130), Methyl acetate at 29% with criteria of (70-130), Methylcyclohexane at 50% with criteria of (70-130), Toluene at 73% with criteria of (75-120) and Trichloroethene at 0% with criteria of (70-125).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:

MW-03 (M1638-03ADL) : Dilution Factor: 4

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data

quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

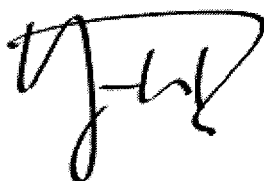
Manual integration was performed on the following:

LCS-73656 Methylene chloride due to M6

VSTD0011D 1,1,2-Trichloroethane due to M3

VSTD0051D 4-Methyl-2-pentanone due to M3

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/25/2013 _____

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

M1638

Lab Name: Spectrum Analytical, Inc.

Contract:

Lab Code: MITKEM Case No.: M1638 SAS No.: SDG No.: SM1638

Instrument ID: V1 Calibration Date(s): 09/16/2013 09/16/2013

Heated Purge: (Y/N) N Calibration Times: 7:23 9:44

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V1M4524.D RRF020 = V1M4523.D RRF050 = V1M4522.D RRF100 = V1M4527.D RRF080 = V1M4528.D											
RRF001 = V1M4525.D											
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF080	RRF001	RRF	% RSD			
1,4-Dioxane	0.003	0.002	0.002	0.002	0.002	0.003	0.002	19.3			
Cyclohexane	0.629	0.612	0.567	0.599	0.545	0.644	0.599	6.2			
Methyl acetate	0.279	0.267	0.231	0.243	0.212	0.293	0.254	12.0			
Methylcyclohexane	0.449	0.451	0.392	0.437	0.397	0.512	0.439	9.9			

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc.

Contract:

Lab Code: MITKEM Case No.: M1638 SAS No.: SDG No.: SM1638

Instrument ID: V10 Calibration Date(s): 09/18/2013 09/18/2013

Heated Purge: (Y/N) N Calibration Times: 13:17 17:11

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V8D0617.D RRF020 = V8D0616.D RRF050 = V8D0611.D RRF100 = V8D0614.D RRF200 = V8D0613.D

RRF001 = V8D0619.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001	RRF	% RSD
1,4-Dioxane	0.005	0.005	0.005	0.005	0.005	0.003	0.004	18.8
Cyclohexane	0.816	0.852	0.671	0.758	0.701	0.817	0.769	9.3
Methyl acetate	0.431	0.407	0.355	0.323	0.344	0.503	0.394	17.0
Methylcyclohexane	0.677	0.723	0.584	0.671	0.607	0.641	0.650	7.8

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB1F

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Lab File ID: V1M4554.D BFB Injection Date: 09/16/2013
Instrument ID: V1 BFB Injection Time: 21:54
GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.2
75	30.0 - 60.0% of mass 95	52.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	69.6
175	5.0 - 9.0% of mass 174	5.0 (7.1)1
176	95.0 - 101.0% of mass 174	68.2 (97.9)1
177	5.0 - 9.0% of mass 176	4.5 (6.6)2

1 - Value is % mass 174

2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501F	VSTD0501F	V1M4556.D	09/16/2013	22:41
02	LCS-73656	LCS-73656	V1M4557.D	09/16/2013	23:04
03	MB-73656	MB-73656	V1M4560.D	09/17/2013	0:14
04	MW-01	M1638-01A	V1M4567.D	09/17/2013	2:59
05	MW-02	M1638-02A	V1M4568.D	09/17/2013	3:22
06	MW-03	M1638-03A	V1M4569.D	09/17/2013	3:45
07	TB-090513	M1638-05A	V1M4571.D	09/17/2013	4:32

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638

Instrument ID: V1 Calibration Date: 09/16/2013 Time: 22:41

Lab File ID: V1M4556.D Init. Calib. Date(s): 09/16/2013 09/16/2013

EPA Sample No. (VSTD####) VSTD0501F Init. Calib. Time(s): 7:23 9:44

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.199	0.159	0.100	-20.3	20.0
Chloromethane	0.595	0.527	0.100	-11.4	20.0
Vinyl chloride	0.455	0.413	0.100	-9.3	20.0
Bromomethane	0.272	0.247	0.100	-9.3	20.0
Chloroethane	0.293	0.266	0.100	-9.2	20.0
Trichlorofluoromethane	0.447	0.403	0.100	-9.9	20.0
1,1-Dichloroethene	0.275	0.248	0.100	-9.7	20.0
Acetone	0.046	0.055	0.100	19.4	20.0
Carbon disulfide	0.936	1.057	0.100	12.9	20.0
Methylene chloride	0.264	0.309	0.100	17.0	20.0
trans-1,2-Dichloroethene	0.301	0.285	0.100	-5.5	20.0
Methyl tert-butyl ether	0.686	0.749	0.100	9.1	20.0
1,1-Dichloroethane	0.712	0.675	0.200	-5.2	20.0
2-Butanone	0.041	0.050	0.100	20.7	20.0
cis-1,2-Dichloroethene	0.329	0.303	0.100	-7.9	20.0
Bromochloromethane	0.147	0.151	0.100	3.2	20.0
Chloroform	0.594	0.566	0.200	-4.8	20.0
1,1,1-Trichloroethane	0.451	0.383	0.100	-15.1	20.0
Carbon tetrachloride	0.420	0.373	0.100	-11.2	20.0
1,2-Dichloroethane	0.476	0.487	0.100	2.4	20.0
Benzene	1.212	1.126	0.500	-7.1	20.0
Trichloroethene	0.298	0.284	0.200	-4.9	20.0
1,2-Dichloropropane	0.376	0.358	0.100	-4.8	20.0
Bromodichloromethane	0.429	0.427	0.200	-0.3	20.0
cis-1,3-Dichloropropene	0.522	0.508	0.200	-2.7	20.0
4-Methyl-2-pentanone	0.550	0.586	0.100	6.5	20.0
Toluene	1.124	1.050	0.400	-6.6	20.0
trans-1,3-Dichloropropene	0.432	0.441	0.100	2.1	20.0
1,1,2-Trichloroethane	0.207	0.203	0.100	-1.9	20.0
Tetrachloroethene	0.316	0.420	0.200	32.9	20.0
2-Hexanone	0.487	0.552	0.100	13.3	20.0
Dibromochloromethane	0.378	0.392	0.100	3.7	20.0
1,2-Dibromoethane	0.284	0.316	0.100	11.2	20.0
Chlorobenzene	1.012	0.928	0.500	-8.3	20.0
Ethylbenzene	0.525	0.492	0.100	-6.3	20.0
m,p-Xylene	0.652	0.609	0.100	-6.6	20.0
o-Xylene	0.636	0.586	0.300	-7.8	20.0
Styrene	1.025	1.006	0.300	-1.9	20.0
Bromoform	0.182	0.208	0.100	14.6	20.0
Isopropylbenzene	1.650	1.552	0.100	-5.9	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638

Instrument ID: V1 Calibration Date: 09/16/2013 Time: 22:41

Lab File ID: V1M4556.D Init. Calib. Date(s): 09/16/2013 09/16/2013

EPA Sample No. (VSTD####) VSTD0501F Init. Calib. Time(s): 7:23 9:44

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
1,1,2,2-Tetrachloroethane	0.734	0.752	0.300	2.4	20.0
n-Propylbenzene	0.941	0.849	0.100	-9.8	20.0
1,3,5-Trimethylbenzene	2.903	2.793	0.100	-3.8	20.0
tert-Butylbenzene	3.178	2.483	0.100	-21.9	20.0
1,2,4-Trimethylbenzene	2.980	2.774	0.100	-6.9	20.0
sec-Butylbenzene	3.656	3.380	0.100	-7.6	20.0
1,3-Dichlorobenzene	1.689	1.518	0.600	-10.2	20.0
1,4-Dichlorobenzene	1.591	1.520	0.500	-4.4	20.0
n-Butylbenzene	2.840	2.568	0.100	-9.6	20.0
1,2-Dichlorobenzene	1.488	1.378	0.400	-7.4	20.0
1,2-Dibromo-3-chloropropane	0.100	0.116	0.050	15.9	20.0
1,2,4-Trichlorobenzene	0.771	0.705	0.200	-8.5	20.0
1,2,3-Trichlorobenzene	0.630	0.543	0.100	-13.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.238	0.151	0.100	-36.4	20.0
1,4-Dioxane	0.002	0.002	0.100	-1.4	20.0
Cyclohexane	0.599	0.499	0.100	-16.7	20.0
Methyl acetate	0.254	0.279	0.100	9.8	20.0
Methylcyclohexane	0.439	0.362	0.100	-17.7	20.0

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1638

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3

Instrument Type: GCMS-SEMI

Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-03 (M1638-03BMS) and MW-03 (M1638-03BMSD).

Percent recoveries were within the QC limits with the following exceptions:

Replicate RPDs were within the advisory QC limits with the exception of the following:

MW-03 (M1638-03BMSD), Relative Percent Difference is greater than RPD limit for 2,4-Dimethylphenol, 4-Chloroaniline.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

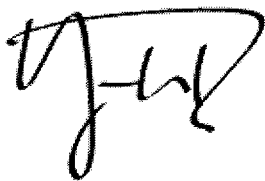
Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

Manual integrations were performed on the following:

SSTD0103T Benzo(b)fluoranthene , Benzo(k)fluoranthene due to M2

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/25/2013 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1638

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-03 (M1638-03BMS) and MW-03 (M1638-03BMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

INDC3FO 4,4'-DDT on rear column due to M2

TOXAPH4J6 Toxaphene on rear column due to M3

TOXAPH5J6 Toxaphene on rear column due to M3

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/25/2013 _____

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E6A3921F.D/E6A3921R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013

Extraction: (Type) SEPF Date Extracted: 09/12/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-02

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E6A3922F.D/E6A3922R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013

Extraction: (Type) SEPF Date Extracted: 09/12/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

mw-02

EPA SAMPLE NO.

FD-090513

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-04B
Sample wt/vol: 1000 (g/mL) ML Lab File ID: E6A3926F.D/E6A3926R.D
% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013
Extraction: (Type) SEPF Date Extracted: 09/12/2013
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013
Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-03

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: M1638 Mod. Ref No.: _____ SDG No.: SM1638

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1638-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E6A3923F.D/E6A3923R.D

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 09/06/2013

Extraction: (Type) SEPF Date Extracted: 09/12/2013

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2013

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1638

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E4
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-03 (M1638-03BMS) and MW-03 (M1638-03BMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

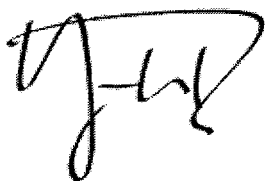
The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 9/25/2013 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1638

SW846 6010C, SW846 7470A, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7470A, SW846 9012B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A

Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

Aqueous Samples were prepared following procedures in laboratory test code: SW9012B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on samples: MW-03 (M1638-03DMS) and MW-03 (M1638-03EMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analyses were performed on samples: MW-03 (M1638-03DDUP) and MW-03 (M1638-03EDUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

Serial Dilution analysis was performed on sample: MW-03 (M1638-03ESD).

Percent differences were within the QC limits with the exception of the following:

MW-03 (M1638-03ESD), Serial Dilution analysis not within control limit for Barium.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____



Date: 09/25/13

U.S. EPA - CLP
14
ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 11176967.00002
 Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SM1638
 Instrument ID Number: OPTIMA3 Method: P
 Start Date: 09/11/2013 End Date: 09/11/2013

OPTIMA3_130911A

EPA Sample No.	D/F	Time	R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V N
S0	1.0	0955		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
S1	1.0	0959		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
S2	1.0	1002		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
S3	1.0	1006		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
ICV	1.0	1010		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
ICB	1.0	1013		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
ZZZZZZ	1.0	1017																							
ICSA	1.0	1021		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
ICSAB	1.0	1024		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
CCV	1.0	1028		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
CCB	1.0	1032		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
PBW	1.0	1036		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
LCSW	1.0	1039		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MW-01	1.0	1043		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MW-02	1.0	1047		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MW-03	1.0	1050		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MW-03D	1.0	1054		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MW-03S	1.0	1058		X	X	X	X	X		X	X	X	X	X		X			X	X		X	X	X	X
MW-03L	5.0	1102		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
CCV	1.0	1105		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
CCB	1.0	1109		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
ZZZZZZ	1.0	1113																							
FD-090513	1.0	1116		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
ZZZZZZ	1.0	1120																							
ZZZZZZ	1.0	1124																							
ZZZZZZ	1.0	1127																							
ZZZZZZ	1.0	1131																							
ZZZZZZ	1.0	1135																							
ZZZZZZ	5.0	1138																							
CCV	1.0	1142		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
CCB	1.0	1146		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc.Contract: 11176967.00002Lab Code: MITKEM

Case No.: _____

SAS No.: _____

SDG No.: SM1638Preparation Blank Matrix (soil/water): WATER

Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L**MB-73574****OPTIMA3_130911A**

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)				Preparation Blank		C	M
		C	09/11/13 10:32	C	09/11/13 11:09	C	09/11/13 11:46	C		
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U		P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U		P
Arsenic	4.3	U	4.3	U	4.3	U	4.3	U		P
Barium	3.6	B	2.4	B	3.3	B	3.4	B	1.100	U
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.260	U
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.890	U
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	110.000	U
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.640	U
Cobalt	0.7	B	0.7	U	0.7	U	0.7	U	0.670	U
Copper	3.6	U	3.6	U	3.6	U	3.6	U	3.600	U
Iron	31.0	U	31.0	U	31.0	U	31.0	U	31.000	U
Lead	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U
Nickel	0.9	B	0.8	U	1.1	B	1.0	B	0.850	U
Potassium	76.0	U	109.1	B	159.1	B	250.2	B	76.000	U
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	12.000	U
Silver	6.9	U	6.9	U	6.9	U	6.9	U	6.900	U
Sodium	29.0	U	39.0	B	63.5	B	80.2	B	29.000	U
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	6.200	U
Vanadium	1.1	U	1.1	U	1.1	U	1.3	B	1.100	U
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	4.900	U

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1638

SM 3500D

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SM 3500D

IV. PREPARATION

Samples were prepared following procedures in laboratory test code: SM 3500D

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: SPEC2

Instrument Type: SP

Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-03 (M1638-03CMS) and MW-03 (M1638-03CMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

D. Duplicate sample:

Duplicate analyses were performed on sample: MW-03 (M1638-03CDUP).

Relative percent differences were within the QC limits.

E. Dilutions:

No sample required dilution in this SDG.

F. Samples:

No other unusual occurrences were noted during sample analysis.

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A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke at the end.

Signed: _____

Date: 09/20/2013

MIGIS-WASTE

CHAIN OF CUSTODY RECORD

PROJECT NO.	1176967.00002	SITE NAME	Elmire - Triple Cities
SAMPLERS (PRINT/SIGNATURE)			

Tim T. Kneissl / Tim Kneissl

DELIVERY SERVICE: Fedex AIRBILL NO.: 8035 3913 1947

AIRBILL NO.: 70

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX
G S-07	8/30/13	0900	G	GS-07	SO
IDW-GW	8/30/13	1700	C	IDW-GW	WG
99W-50	8/30/13	1730	C	IDW-50	SO

[illegible]

MATRIX CODES	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WW - DRINKING WATER WW - WASTE WATER	WG - GROUND SO - SOIL DC - DRILL CUTtings
SAMPLE TYPE CODES	TBA - TRIP BLANK SDW - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL MS# - MATRIX

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
<i>Tim Affarant</i>	8/30/83	1:10	<i>[Signature]</i>
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB

Distribution: Original accompanies shipment, copy to coordinator field files

UFSF-075C/1 OF 1/CofCR/GCM

Page 3 of 871

SPECIAL INSTRUCTIONS

For questions contact
George Kishuk @

716-856-5636

2000

Distribution: Original accompanies shipment, copy to coordinator field files

UFSF-075C/1 OF 1/CofCRV/GCM

Page 3 of 871

SPECIAL INSTRUCTIONS

For questions contact
George Kishuk @

716-856-5636

2000

Distribution: Original accompanies shipment, copy to coordinator field files

UFSF-075C/1 OF 1/CofCRV/GCM

Page 3 of 871

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1615

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on sample: IDW-SO
(M1615-02AMS).

Percent recoveries were within the QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:

IDW-GW (M1615-01ADL) : Dilution Factor: 4

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 9/20/2013 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1615

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S3
Instrument Type: GCMS-SEMI

Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973
GC Column used: 30 m X 0.25 mm ID [0.25 um thickness] Rxi-5sil MS
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on sample: IDW-SO
(M1615-02AMS).

Percent recoveries were within the QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

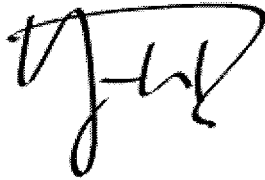
G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

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A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 9/18/2013 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1615

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8081B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

GC Column used: 30 m X 0.53 mm ID [0.42 um thickness] CLPPestII capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on sample: IDW-SO (M1615-02AMS).

Percent recoveries were within the QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

TOXAPH4J6 Toxaphene on rear column due to M3

TOXAPH5J6 Toxaphene on rear column due to M3

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/20/2013 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1615

SW846 8151A, Chlorinated Herbicides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8151A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

GC Column used: 30 m X 0.53 mm ID [0.42 um thickness] CLPPestII capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on sample: IDW-SO (M1615-02AMS).

Percent recoveries were within the QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 9/20/2013 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1615

SW846 6010C, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7470A

IV. PREPARATION

Aqueous Samples were filtered in the laboratory prior to preparation following procedures in test codes: SW3005A, SW7470A.

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA

Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: IDW-SO (M1615-02AMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on sample: IDW-SO (M1615-02ASD).

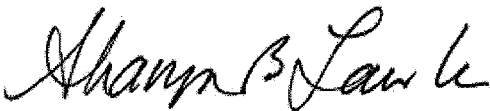
Percent differences were within the QC limits with the exception of the following:

IDW-SO (M1615-02ASD-TCLP), Serial Dilution analysis not within control limit for Barium.

G. Samples:

No other unusual occurrences were noted during sample analysis.

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Signed: 

Date: 09/20/13

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : URS Corporation

Project: Triple Cities Metal Finishing

Laboratory Workorder / SDG #: M1615

SM 4500 H+ B, SW846 1010, SW846 7.3.3.2, SW846 7.3.4.2, SW846
9045C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SM 4500 H+ B, SW846 1010, SW846 7.3.3.2, SW846 7.3.4.2, SW846 9045C

IV. PREPARATION

Samples were prepared following procedures in laboratory test code: SM 4500 H+ B, SW846 1010, SW846 7.3.3.2, SW846 7.3.4.2, SW846 9045C

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FLASH1
Instrument Type: WC
Description: Flash Point
Manufacturer: Koehler
Model: K16200

Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics
Model: Quik-Chem 8000

Instrument Code: SPEC2
Instrument Type: SP
Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

Instrument Code: WC03
Instrument Type: Probe
Description: pH Meter
Manufacturer: Oakton Instruments
Model: Bench 2700 Series

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

The lab control sample for reactive cyanide typically results in a percent recovery of from zero to approximately 10%. This indicates the analysis is only measuring the correct type of cyanide. The LCS is performed with a "total" cyanide spike, only a small portion of which is "reactive". Recovery of significantly greater

than this level in the analysis of the LCS indicates the test is over estimating the concentration of reactive cyanide.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

D. Duplicate sample:

Duplicate analyses were performed on samples: IDW-GW (M1615-01BDUP) and IDW-SO (M1615-02BDUP).

Relative percent differences were within the QC limits.

E. Dilutions:

No sample required dilution in this SDG.

F. Samples:

For Flashpoint analysis, the result of "No Flash" indicates that no flash was observed, or that non-ignitable vapors from the sample extinguished the test flame at the temperature indicated. Where non-flammable vapors from the sample extinguished the test flame below 140 degrees, the sample temperature was elevated to at least 140 degrees, and re-exposed to the test flame.

No other unusual occurrences were noted during sample analysis.

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Signed:  _____

Date: 09/18/2013