ARCADIS U.S., Inc.
855 Route 146
Suite 210
Clifton Park
New York 12065
Tel 518 250 7300
Fax 518 250 7301
www.arcadis-us.com

ENVIRONMENT

Mr. Larry Alden, P.E.
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7016

Subject:
Supplemental Sampling Summary Report
Henry Johnson Boulevard Properties
City of Albany, New York
Project No. E401049

Date:
December 22, 2014

Contact:
Stefan Bagnato

Phone:
518-250-7360

Email:
Stefan.Bagnato@arcadis-us.com

Our ref:
04279009.0000

Dear Mr. Rogers:

On behalf of the Albany Community Development Agency (ACDA), ARCADIS U.S., Inc. (ARCADIS) has prepared this summary of supplemental sampling activities to summarize the analytical results for soil samples collected in October 2014 to further delineate soil that may contain chlorinated volatile organic compounds (CVOCs) at concentrations in excess of the corresponding 6 NYCRR Part 375 Soil Cleanup Objectives on the above-referenced site.

FIELD ACTIVITIES

On October 27, 2014, eight soil borings, designated SB-87 through SB-94 were advanced at the Henry Johnson Boulevard Properties site in the vicinity of monitoring wells MW-10R and MW-22R down-gradient of Soil Removal Area (SRA) 2. The locations of the soil borings are shown on Figure 1. Normal utility clearance activities, including reviewing available site drawings and contacting Dig Safely New York were performed. Boring locations were hand cleared to five feet below ground surface (bgs) prior to commencing drilling activities. Each boring was advanced to a depth of 12 feet bgs, using a macrocore sampler and direct push drilling techniques by Precision Environmental Services Inc. Upon retrieval, each macro-core was opened and the soil was screened using a photoionization detector (PID), visually inspected for indications of contamination (e.g., staining and/or sheens) and buried debris, and classified by the on-site field geologist. Soil samples were collected from each soil boring from directly above the water table or native clay layer. Soil samples were sent to Spectrum Analytical Inc. in North Kingstown, Rhode Island for analysis of Target Compound List (TCL) volatile organic compounds (VOCs) by United Stated Environmental Protection Agency (USEPA) Method 8260. Analytical Laboratory Reporting Forms are included in

Attachment 1. Soil boring logs are included in Attachment 2. Grab groundwater sampling was attempted at soil borings SB-87, SB-90, and SB-92 using a screen point sampler, however, groundwater samples could not be obtained due to slow recovery.

Data validation was performed to ensure that the data was of sufficient quality to support the project objectives. The Data Usability Summary Report is included in Attachment 3. Sample processing was generally conducted in compliance with the analytical protocol requirements and quality criteria. All data were classified as usable with some minor qualification. Additional discussion is provided in the DUSR narrative in Attachment 3.

RESULTS

Analytical results for soil samples are summarized in Table 1 and on Figure 1. As shown in Table 1, acetone, methylene chloride, tetrachloroethene, and trichloroethene were detected at low levels in some of the soil samples collected in October 2014. However, none of the soil samples collected during this sampling event contained concentrations of CVOCs greater than the applicable 6 NYCRR Part 375 Soil Cleanup Objectives.

Consistent with prior sampling during the Phase II Environmental Site Assessment, Remedial Investigation, and SRA 2 confirmation sampling, the results of the October 2014 soil sampling indicate that significant residual soil CVOC mass is not likely present in the down-gradient vicinity of SRA 2.

If you have any questions concerning this matter, please call me or Bruce Nelson at (518) 250-7300.

Sincerely,

ARCADIS U.S., Inc.

Stefan Bagnato, P.G.
Project Geologist

Attachments

Copies:
Luis Perez, ACDA
Michael Komoroske, NYSDEC

HENRY JOHNSON BOULEVARD

(A.K.A. NORTHERN BOULEVARD)

ASPHALT PAVEMENT

CLINTON AVE.

ASPHALT PAVEMENT

SOIL REMOVAL AREA 2

HJB-SB-93	10/27/14
Compound	Depth (ft bgs)
	2-3
Methylene Chloride	4.5 J
Tetrachloroethene	14 J

HJB-SB-42	6/13/06	
Compound	Depth (ft bgs)	
	5-7	10-12
TCL VOCs	ND	ND

HJB-SB-88	10/27/14
Compound	Depth (ft bgs)
	4-5
Methylene Chloride	2.7 JL
Tetrachloroethene	5.2 JL

HJB-SB-92	10/27/14
Compound	Depth (ft bgs)
	3-4
Tetrachloroethene	1.5 J

HJB-SB-94	10/27/14
Compound	Depth (ft bgs)
	1-2
Tetrachloroethene	2.8 JL

HJB-SB-2	7/13/04
Compound	Depth (ft bgs)
	1-2
Tetrachloroethene	810

HJB-SB-91	10/27/14
Compound	Depth (ft bgs)
	3-4
Methylene Chloride	1.8 JL
Tetrachloroethene	1.3 JL

HJB-SRA-2S	5/30/07
Compound	Depth (ft bgs)
	3.5
Tetrachloroethene	130

HJB-SB-43	6/13/06	
Compound	Depth (ft bgs)	
	5-7	10-12
TCL VOCs	ND	ND

HJB-SB-89	10/27/14
Compound	Depth (ft bgs)
	5-6
Tetrachloroethene	810 J
Trichloroethene	17 J

HJB-SB-90	10/27/14
Compound	Depth (ft bgs)
	3-4
Methylene Chloride	2.1 JL
Tetrachloroethene	110 JL
Trichloroethene	1.2 JL

HJB-SB-87	10/27/14
Compound	Depth (ft bgs)
	7-8
Acetone	7.5 J
Tetrachloroethene	2.8 J

ST. NO. 124 ST. NO. 126 ST. NO. 128 ST. NO. 130 ST. NO. 132

ST. NO. 337 ST. NO. 335 ST. NO. 333

SB-42/MW10 SB-88 SB-92 SB-93 SB-91 SB-94 SB-2 SB-90 SV-7 MW-10R SB-89 SB-43 SV-7R MW-22R SB-87

SB-1/MW-4R SV-9R IW-1 SV-10 MW-11R SB-54/MW11

FOUNDATION REMAINS BLOCK WALL

SV-4 SB-63/MW14 SV-5 SB-62/MW13 SB-65/MW16 SV-8 SB-40/SV-11 SB-61/MW-12

BUILDING BUILDING VACANT LOT BLOCK

SB-33/SV-12 SB-15 MW-3 SB-13 MW-1 SB-17 MW-2 MW-2R SB-28/SV-13 POLE SB-35/SV-14 SB-26/MW-8 SB-44/MW-9 CONC. WALL

NOTE: Soil VOC concentrations for detected compounds given in ug/kg.

- Concentration exceeds corresponding 6 NYCRR Part 375 Commercial Soil Cleanup Objective.
- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.
- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

LEGEND

SB-1/MW-4R	REPLACEMENT WELL
SV-7R	REPLACEMENT VAPOR POINT
SB-54/MW-11	SOIL BORING/MONITORING WELL
SB-11	SOIL VAPOR MONITORING POINT
SB-43	SOIL BORING
	INJECTION WELL
	LIMITS OF WORK
	SRA-2 CONFIRMATION SAMPLE

10 0 10 20

SCALE: 1" = 20'

ARCADIS

CITY OF ALBANY
ALBANY, NEW YORK
HENRY JOHNSON BOULEVARD ERP

SUMMARY OF SOIL VOC SAMPLING RESULTS

SCALE: AS SHOWN

NOVEMBER 2014

FIGURE 1

TABLE 1
SUMMARY OF SOIL SAMPLING RESULTS (VOCs)
HENRY JOHNSON BOULEVARD PROPERTIES
ALBANY, NEW YORK

Sample/Boring ID Sample Depth (feet) Sampling Date Matrix Units	6 NYCRR Part Unrestricted Use Soil Cleanup Objective µg/kg	6 NYCRR Part 375 Residential Soil Cleanup Objective µg/kg	6 NYCRR Part 375 Commercial Soil Cleanup Objective µg/kg	SB-87 7-8 10/27/14 SOIL µg/kg	SB-88 4-5 10/27/14 SOIL µg/kg	SB-88 DUP-01 10/27/14 SOIL µg/kg	SB-89 5-6 10/27/14 SOIL µg/kg	SB-90 3-4 10/27/14 SOIL µg/kg	SB-91 3-4 10/27/14 SOIL µg/kg	SB-92 3-4 10/27/14 SOIL µg/kg	SB-93 2-3 10/27/14 SOIL µg/kg	SB-94 1-2 10/27/14 SOIL µg/kg
VOCs												
Acetone	50	100,000	500,000	7.5 J	6.1 U	6.4 UJ	42 UJ	5.2 U	4.9 U	5.5 U	6.4 UJ	5.6 U
Methylene Chloride	50	51,000	500,000	7.2 UJ	2.7 JL	6.4 UJ	42 UJ	2.1 JL	1.8 JL	5.5 U	4.5 J	2.8 JL
Tetrachloroethene	1,300	5,500	150,000	2.8 J	5.2 JL	2.7 J	810 J	110 JL	1.3 JL	1.5 J	14 J	5.6 U
Trichloroethene	470	10,000	200,000	7.2 UJ	6.1 U	6.4 UJ	17 J	1.2 JL	4.9 U	5.5 U	6.4 UJ	5.6 U

Notes:

- Concentration exceeds corresponding 6 NYCRR Part 375 Commercial Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.
L - Biased low; sample not collected according to 5035-L/5035A-L specifications.

Attachment 1

Analytical Laboratory Reporting Forms

Report Date:
13-Nov-14 15:50

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: N2023
Project : Henry Johnson Blvd
Project #:

Attn: Stefan Bagnato

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
N2023-01	SB-92-102714 3-4	Soil	27-Oct-14 13:40	28-Oct-14 09:00
N2023-02	SB-91-102714 3-4	Soil	27-Oct-14 13:05	28-Oct-14 09:00
N2023-03	SB-94-102714 1-2	Soil	27-Oct-14 14:50	28-Oct-14 09:00
N2023-04	SB-87-102714 7-8	Soil	27-Oct-14 09:55	28-Oct-14 09:00
N2023-05	SB-90-102714 3-4	Soil	27-Oct-14 12:30	28-Oct-14 09:00
N2023-06	SB-88-102714 4-5	Soil	27-Oct-14 11:00	28-Oct-14 09:00
N2023-07	SB-93-102714 2-3	Soil	27-Oct-14 14:30	28-Oct-14 09:00
N2023-08	SB-89-102714 5-6	Soil	27-Oct-14 11:45	28-Oct-14 09:00
N2023-09	DUP-01-102714	Soil	27-Oct-14 00:00	28-Oct-14 09:00
N2023-10	TRIPBLANK-102714	Aqueous	27-Oct-14 00:00	28-Oct-14 09:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Data Summary Pack *

646 Camp Ave · North Kingstown, RI 02852-4008 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Henry Johnson Blvd **SDG :** N2023

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
SB-92-102714 3-4	N2023-01	SW8260_LOW_S				
SB-91-102714 3-4	N2023-02	SW8260_LOW_S				
SB-94-102714 1-2	N2023-03	SW8260_LOW_S				
SB-87-102714 7-8	N2023-04	SW8260_LOW_S				
SB-90-102714 3-4	N2023-05	SW8260_LOW_S				
SB-88-102714 4-5	N2023-06	SW8260_LOW_S				
SB-93-102714 2-3	N2023-07	SW8260_LOW_S				
SB-89-102714 5-6	N2023-08	SW8260_LOW_S				
DUP-01-102714	N2023-09	SW8260_LOW_S				
TRIPBLANK-102714	N2023-10	SW8260_W				

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Henry Johnson Blvd **SDG :** N2023

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_LOW_S					
N2023-01A	SL	10/27/2014	10/28/2014	NA	11/4/2014
N2023-02A	SL	10/27/2014	10/28/2014	NA	11/4/2014
N2023-03A	SL	10/27/2014	10/28/2014	NA	11/4/2014
N2023-04A	SL	10/27/2014	10/28/2014	NA	11/5/2014
N2023-04AMS	SL	10/27/2014	10/28/2014	NA	11/4/2014
N2023-04AMSD	SL	10/27/2014	10/28/2014	NA	11/4/2014
N2023-05A	SL	10/27/2014	10/28/2014	NA	11/4/2014
N2023-06A	SL	10/27/2014	10/28/2014	NA	11/4/2014
N2023-07A	SL	10/27/2014	10/28/2014	NA	11/4/2014
N2023-08A	SL	10/27/2014	10/28/2014	NA	11/5/2014
N2023-09A	SL	10/27/2014	10/28/2014	NA	11/5/2014
N2023-09ARE	SL	10/27/2014	10/28/2014	NA	11/5/2014
SW8260_W					
N2023-10A	AQ	10/27/2014	10/28/2014	NA	11/3/2014

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Henry Johnson Blvd **SDG :** N2023

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_LOW_S					
N2023-01A	SL	SW8260_LOW_S	NA	LOW	1
N2023-02A	SL	SW8260_LOW_S	NA	LOW	1
N2023-03A	SL	SW8260_LOW_S	NA	LOW	1
N2023-04A	SL	SW8260_LOW_S	NA	LOW	1
N2023-04AMS	SL	SW8260_LOW_S	NA	LOW	1
N2023-04AMSD	SL	SW8260_LOW_S	NA	LOW	1
N2023-05A	SL	SW8260_LOW_S	NA	LOW	1
N2023-06A	SL	SW8260_LOW_S	NA	LOW	1
N2023-07A	SL	SW8260_LOW_S	NA	LOW	1
N2023-08A	SL	SW8260_LOW_S	NA	LOW	1
N2023-09A	SL	SW8260_LOW_S	NA	LOW	1
N2023-09ARE	SL	SW8260_LOW_S	NA	LOW	1
SW8260_W					
N2023-10A	AQ	SW8260_W	NA	LOW	1

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N2023

Client ID: MALCOLM_LATHAM
Project: Henry Johnson Blvd
WO Name: Henry Johnson Blvd
Location: HENRY_JOHNSON,
Comments: N/A

Case:
SDG:
PO: 04279009.0000

HC Due: 11/11/14
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: CLF
EQuIS_4_NYSDEC_v3

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N2023-01A	SB-92-102714 3-4	10/27/2014 13:40	10/28/2014	Soil	PMoist	/					VOA
N2023-01A	SB-92-102714 3-4	10/27/2014 13:40	10/28/2014	Soil	SW8260_LOW_S	/ +TICs					VOA
N2023-01A	SB-92-102714 3-4	10/27/2014 13:40	10/28/2014	Soil	SW8260_MED_S	/ +TICs		Y			VOA
N2023-02A	SB-91-102714 3-4	10/27/2014 13:05	10/28/2014	Soil	PMoist	/					VOA
N2023-02A	SB-91-102714 3-4	10/27/2014 13:05	10/28/2014	Soil	SW8260_LOW_S	/ +TICs					VOA
N2023-02A	SB-91-102714 3-4	10/27/2014 13:05	10/28/2014	Soil	SW8260_MED_S	/ +TICs		Y			VOA
N2023-03A	SB-94-102714 1-2	10/27/2014 14:50	10/28/2014	Soil	PMoist	/					VOA
N2023-03A	SB-94-102714 1-2	10/27/2014 14:50	10/28/2014	Soil	SW8260_LOW_S	/ +TICs					VOA
N2023-03A	SB-94-102714 1-2	10/27/2014 14:50	10/28/2014	Soil	SW8260_MED_S	/ +TICs		Y			VOA
N2023-04A	SB-87-102714 7-8	10/27/2014 09:55	10/28/2014	Soil	PMoist	/			Y		VOA
N2023-04A	SB-87-102714 7-8	10/27/2014 09:55	10/28/2014	Soil	SW8260_LOW_S	/ +TICs			Y		VOA
N2023-04A	SB-87-102714 7-8	10/27/2014 09:55	10/28/2014	Soil	SW8260_MED_S	/ +TICs		Y	Y		VOA
N2023-05A	SB-90-102714 3-4	10/27/2014 12:30	10/28/2014	Soil	PMoist	/					VOA
N2023-05A	SB-90-102714 3-4	10/27/2014 12:30	10/28/2014	Soil	SW8260_LOW_S	/ +TICs					VOA
N2023-05A	SB-90-102714 3-4	10/27/2014 12:30	10/28/2014	Soil	SW8260_MED_S	/ +TICs		Y			VOA
N2023-06A	SB-88-102714 4-5	10/27/2014 11:00	10/28/2014	Soil	PMoist	/					VOA
N2023-06A	SB-88-102714 4-5	10/27/2014 11:00	10/28/2014	Soil	SW8260_LOW_S	/ +TICs					VOA
N2023-06A	SB-88-102714 4-5	10/27/2014 11:00	10/28/2014	Soil	SW8260_MED_S	/ +TICs		Y			VOA
N2023-07A	SB-93-102714 2-3	10/27/2014 14:30	10/28/2014	Soil	PMoist	/					VOA
N2023-07A	SB-93-102714 2-3	10/27/2014 14:30	10/28/2014	Soil	SW8260_LOW_S	/ +TICs					VOA
N2023-07A	SB-93-102714 2-3	10/27/2014 14:30	10/28/2014	Soil	SW8260_MED_S	/ +TICs		Y			VOA
N2023-08A	SB-89-102714 5-6	10/27/2014 11:45	10/28/2014	Soil	PMoist	/					VOA
N2023-08A	SB-89-102714 5-6	10/27/2014 11:45	10/28/2014	Soil	SW8260_LOW_S	/ +TICs					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

10/29/2014 11:56 Lab Client Rep: Agnes R Huntley

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N2023

Client ID: MALCOLM_LATHAM
Project: Henry Johnson Blvd
WO Name: Henry Johnson Blvd
Location: HENRY_JOHNSON,
Comments: N/A

Case:
SDG:
PO: 04279009.0000

HC Due: 11/11/14
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: CLF
EQuIS_4_NYSDEC_v3

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N2023-08A	SB-89-102714 5-6	10/27/2014 11:45	10/28/2014	Soil	SW8260_MED_S	/ +TICs		Y			VOA
N2023-09A	DUP-01-102714	10/27/2014 00:00	10/28/2014	Soil	PMoist	/					VOA
N2023-09A	DUP-01-102714	10/27/2014 00:00	10/28/2014	Soil	SW8260_LOW_S	/ +TICs					VOA
N2023-09A	DUP-01-102714	10/27/2014 00:00	10/28/2014	Soil	SW8260_MED_S	/ +TICs		Y			VOA
N2023-10A	TRIPBLANK-102714	10/27/2014 00:00	10/28/2014	Aqueous	SW8260_W	/ +TICs					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: Henry Johnson Blvd

Laboratory Workorder / SDG #: N2023

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
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 with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

SB-92-102714 3-4 (N2023-01A), recovery is above criteria for 1,2-Dichloroethane-d4 at 111% with criteria of (88-110).

SB-87-102714 7-8 (N2023-04A), recovery is below criteria for Bromofluorobenzene at 77% with criteria of (85-120).

SB-87-102714 7-8 (N2023-04AMS), recovery is above criteria for 1,2-Dichloroethane-d4 at 112% with criteria of (88-110).

SB-93-102714 2-3 (N2023-07A), recovery is below criteria for Bromofluorobenzene at 83% with criteria of (85-120).

SB-89-102714 5-6 (N2023-08A), recovery is below criteria for Bromofluorobenzene at 81% with criteria of (85-120).

DUP-01-102714 (N2023-09A), recovery is below criteria for Bromofluorobenzene at 79% with criteria of (85-120).

DUP-01-102714 (N2023-09ARE), recovery is above criteria for 1,2-Dichloroethane-d4 at 110% with criteria of (88-110), recovery is below criteria for and Bromofluorobenzene at 79% with criteria of (85-120).

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-79801 in batch 79801, recovery is above criteria for Iodomethane at 202% with criteria of (72-121).

LCSD-79801 in batch 79801, recovery is above criteria for Iodomethane at 226% with criteria of (72-121).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: SB-87-102714 7-8 (N2023-04AMS) and SB-87-102714 7-8 (N2023-04AMSD).

Percent recoveries were within the QC limits with the following exceptions:

SB-87-102714 7-8 (N2023-04AMS), , recovery is below criteria for 1,1,1,2-Tetrachloroethane at 62% with criteria of (75-125), 1,1,1-Trichloroethane at 74% with criteria of (70-135), 1,1,2,2-Tetrachloroethane at 39% with criteria of (55-130), 1,1,2-Trichloroethane at 41% with criteria of (60-125), 1,1-Dichloroethane at 65% with criteria of (75-125), 1,1-Dichloroethene at 72% with criteria of (65-135), 1,1-Dichloropropene at 70% with criteria of (70-135), 1,2,3-Trichlorobenzene at 7% with criteria of (60-135), 1,2,3-Trichloropropane at 29% with criteria of (65-130), 1,2,4-Trichlorobenzene at 8% with criteria of (65-130), 1,2,4-Trimethylbenzene at 47% with criteria of (65-135), 1,2-Dibromo-3-chloropropane at 22% with criteria of (40-135), 1,2-Dibromoethane at 27% with criteria of (70-125), 1,2-Dichlorobenzene at 24% with criteria of (75-120), 1,2-Dichloroethane at 48% with criteria of (70-135), 1,2-Dichloropropane at 57% with criteria of (70-120), 1,3,5-Trimethylbenzene at 56% with criteria of (65-135), 1,3-

Dichlorobenzene at 31% with criteria of (70-125), 1,3-Dichloropropane at 34% with criteria of (75-125), 1,4-Dichlorobenzene at 27% with criteria of (70-125), 2,2-Dichloropropane at 70% with criteria of (65-135), 2-Butanone at 65% with criteria of (30-160), 2-Chlorotoluene at 50% with criteria of (70-130), 2-Hexanone at 24% with criteria of (45-145), 4-Chlorotoluene at 39% with criteria of (75-125), 4-Isopropyltoluene at 55% with criteria of (75-135), 4-Methyl-2-pentanone at 39% with criteria of (45-145), Acetone at 96% with criteria of (20-160), Benzene at 64% with criteria of (75-125), Bromobenzene at 30% with criteria of (65-120), Bromochloromethane at 57% with criteria of (70-125), Bromodichloromethane at 51% with criteria of (70-130), Bromoform at 30% with criteria of (55-135), Bromomethane at 70% with criteria of (30-160), Carbon disulfide at 62% with criteria of (45-160), Carbon tetrachloride at 76% with criteria of (65-135), Chlorobenzene at 46% with criteria of (75-125), Chloroethane at 70% with criteria of (40-155), Chloroform at 65% with criteria of (70-125), Chloromethane at 71% with criteria of (50-130), cis-1,2-Dichloroethene at 60% with criteria of (65-125), cis-1,3-Dichloropropene at 32% with criteria of (70-125), Dibromochloromethane at 39% with criteria of (65-130), Dibromomethane at 45% with criteria of (75-130), Dichlorodifluoromethane at 52% with criteria of (35-135), Ethylbenzene at 53% with criteria of (75-125), Hexachlorobutadiene at 54% with criteria of (55-140), Iodomethane at 59% with criteria of (70-126), Isopropylbenzene at 54% with criteria of (75-130), m,p-Xylene at 52% with criteria of (80-125), Methyl tert-butyl ether at 70% with criteria of (75-126), Methylene chloride at 75% with criteria of (55-140), Naphthalene at 4% with criteria of (40-125), n-Butylbenzene at 45% with criteria of (65-140), n-Propylbenzene at 55% with criteria of (65-135), o-Xylene at 47% with criteria of (75-125), sec-Butylbenzene at 61% with criteria of (65-130), Styrene at 35% with criteria of (75-125), tert-Butylbenzene at 62% with criteria of (65-130), Tetrachloroethene at 75% with criteria of (65-140), Toluene at 54% with criteria of (70-125), trans-1,2-Dichloroethene at 63% with criteria of (65-135), trans-1,3-Dichloropropene at 23% with criteria of (65-125), Trichloroethene at 57% with criteria of (75-125), Trichlorofluoromethane at 76% with criteria of (25-185), Vinyl acetate at 52% with criteria of (65-138), Vinyl chloride at 69% with criteria of (60-125) and Xylene (Total) at 50% with criteria of (83-125).

SB-87-102714 7-8 (N2023-04AMSD), , recovery is below criteria for 1,1,1,2-Tetrachloroethane at 62% with criteria of (75-125), 1,1,1-Trichloroethane at 79% with criteria of (70-135), 1,1,2,2-Tetrachloroethane at 37% with criteria of (55-130), 1,1,2-

Trichloroethane at 39% with criteria of (60-125), 1,1-Dichloroethane at 69% with criteria of (75-125), 1,1-Dichloroethene at 76% with criteria of (65-135), 1,1-Dichloropropene at 73% with criteria of (70-135), 1,2,3-Trichlorobenzene at 5% with criteria of (60-135), 1,2,3-Trichloropropane at 26% with criteria of (65-130), 1,2,4-Trichlorobenzene at 6% with criteria of (65-130), 1,2,4-Trimethylbenzene at 45% with criteria of (65-135), 1,2-Dibromo-3-chloropropane at 17% with criteria of (40-135), 1,2-Dibromoethane at 23% with criteria of (70-125), 1,2-Dichlorobenzene at 21% with criteria of (75-120), 1,2-Dichloroethane at 47% with criteria of (70-135), 1,2-Dichloropropane at 60% with criteria of (70-120), 1,3,5-Trimethylbenzene at 56% with criteria of (65-135), 1,3-Dichlorobenzene at 26% with criteria of (70-125), 1,3-Dichloropropane at 32% with criteria of (75-125), 1,4-Dichlorobenzene at 24% with criteria of (70-125), 2,2-Dichloropropane at 77% with criteria of (65-135), 2-Butanone at 62% with criteria of (30-160), 2-Chlorotoluene at 49% with criteria of (70-130), 2-Hexanone at 19% with criteria of (45-145), 4-Chlorotoluene at 34% with criteria of (75-125), 4-Isopropyltoluene at 57% with criteria of (75-135), 4-Methyl-2-pentanone at 39% with criteria of (45-145), Acetone at 101% with criteria of (20-160), Benzene at 66% with criteria of (75-125), Bromobenzene at 28% with criteria of (65-120), Bromochloromethane at 59% with criteria of (70-125), Bromodichloromethane at 53% with criteria of (70-130), Bromoform at 29% with criteria of (55-135), Bromomethane at 74% with criteria of (30-160), Carbon disulfide at 68% with criteria of (45-160), Carbon tetrachloride at 81% with criteria of (65-135), Chlorobenzene at 45% with criteria of (75-125), Chloroethane at 77% with criteria of (40-155), Chloroform at 68% with criteria of (70-125), Chloromethane at 80% with criteria of (50-130), cis-1,2-Dichloroethene at 61% with criteria of (65-125), cis-1,3-Dichloropropene at 32% with criteria of (70-125), Dibromochloromethane at 41% with criteria of (65-130), Dibromomethane at 43% with criteria of (75-130), Dichlorodifluoromethane at 53% with criteria of (35-135), Ethylbenzene at 54% with criteria of (75-125), Hexachlorobutadiene at 63% with criteria of (55-140), Iodomethane at 92% with criteria of (70-126), Isopropylbenzene at 60% with criteria of (75-130), m,p-Xylene at 53% with criteria of (80-125), Methyl tert-butyl ether at 76% with criteria of (75-126), Methylene chloride at 78% with criteria of (55-140), Naphthalene at 4% with criteria of (40-125), n-Butylbenzene at 44% with criteria of (65-140), n-Propylbenzene at 54% with criteria of (65-135), o-Xylene at 50% with criteria of (75-125), sec-Butylbenzene at 66% with criteria of (65-130), Styrene at 33% with criteria of (75-125), tert-Butylbenzene at 65% with criteria of (65-130), Tetrachloroethene at 89% with criteria of (65-140), Toluene at 57% with criteria of (70-

125), trans-1,2-Dichloroethene at 66% with criteria of (65-135), trans-1,3-Dichloropropene at 22% with criteria of (65-125), Trichloroethene at 62% with criteria of (75-125), Trichlorofluoromethane at 85% with criteria of (25-185), Vinyl acetate at 54% with criteria of (65-138), Vinyl chloride at 78% with criteria of (60-125) and Xylene (Total) at 52% with criteria of (83-125).

Replicate RPDs were within the advisory QC limits with the exception of the following:

SB-87-102714 7-8 (N2023-04AMSD), Relative Percent Difference is greater than RPD limit for Iodomethane.

E. Internal Standards:

Internal standard peak areas were within the QC limits with the following exceptions:

DUP-01-102714 (N2023-09A), Peak area is outside QC Limits for 1,4-Dichlorobenzene-d4.

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:

LCS-79801 2-Butanone due to M6

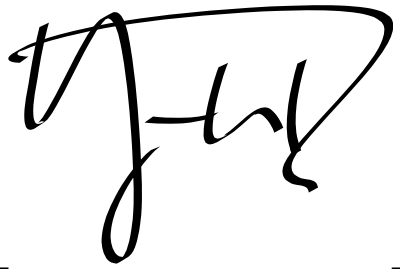
VSTD00110Y Iodomethane , Vinyl acetate due to M6

VSTD00510Y 2-Butanone , Iodomethane due to M6

VSTD02010Y 2-Butanone due to M6

VSTD05010Y 2-Butanone 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.



Signed:_____ _____

Date:_____11/13/2014_____

Data Flag/Qualifiers (Page 1 of 2):

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as an aldol condensation by-product.

Data Flag/Qualifiers (Page 2 of 2):

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

L NYSDEC qualifier: Result is biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-92-102714 3-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-01A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1N2026.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 16 Date Analyzed: 11/04/2014

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.5	U
78-93-3	2-Butanone	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.5	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-92-102714 3-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-01A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1N2026.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 16 Date Analyzed: 11/04/2014

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
127-18-4	Tetrachloroethene	1.5	JL
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
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
100-41-4	Ethylbenzene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
95-47-6	o-Xylene	5.5	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
103-65-1	n-Propylbenzene	5.5	U
95-49-8	2-Chlorotoluene	5.5	U
108-67-8	1,3,5-Trimethylbenzene	5.5	U
106-43-4	4-Chlorotoluene	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
99-87-6	4-Isopropyltoluene	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
87-68-3	Hexachlorobutadiene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
91-20-3	Naphthalene	5.5	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-92-102714 3-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-01A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1N2026.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 16 Date Analyzed: 11/04/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-91-102714 3-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-02A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1N2027.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 7.8 Date Analyzed: 11/04/2014

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	4.9	U
74-87-3	Chloromethane	4.9	U
75-01-4	Vinyl chloride	4.9	U
74-83-9	Bromomethane	4.9	U
75-00-3	Chloroethane	4.9	U
75-69-4	Trichlorofluoromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U
67-64-1	Acetone	4.9	U
74-88-4	Iodomethane	4.9	U
75-15-0	Carbon disulfide	4.9	U
75-09-2	Methylene chloride	1.8	JL
156-60-5	trans-1,2-Dichloroethene	4.9	U
1634-04-4	Methyl tert-butyl ether	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U
108-05-4	Vinyl acetate	4.9	U
78-93-3	2-Butanone	4.9	U
156-59-2	cis-1,2-Dichloroethene	4.9	U
594-20-7	2,2-Dichloropropane	4.9	U
74-97-5	Bromochloromethane	4.9	U
67-66-3	Chloroform	4.9	U
71-55-6	1,1,1-Trichloroethane	4.9	U
563-58-6	1,1-Dichloropropene	4.9	U
56-23-5	Carbon tetrachloride	4.9	U
107-06-2	1,2-Dichloroethane	4.9	U
71-43-2	Benzene	4.9	U
79-01-6	Trichloroethene	4.9	U
78-87-5	1,2-Dichloropropane	4.9	U
74-95-3	Dibromomethane	4.9	U
75-27-4	Bromodichloromethane	4.9	U
10061-01-5	cis-1,3-Dichloropropene	4.9	U
108-10-1	4-Methyl-2-pentanone	4.9	U
108-88-3	Toluene	4.9	U
10061-02-6	trans-1,3-Dichloropropene	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U
142-28-9	1,3-Dichloropropane	4.9	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-91-102714 3-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-02A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1N2027.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 7.8 Date Analyzed: 11/04/2014

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
127-18-4	Tetrachloroethene	1.3	JL
591-78-6	2-Hexanone	4.9	U
124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U
108-90-7	Chlorobenzene	4.9	U
630-20-6	1,1,1,2-Tetrachloroethane	4.9	U
100-41-4	Ethylbenzene	4.9	U
179601-23-1	m,p-Xylene	4.9	U
95-47-6	o-Xylene	4.9	U
1330-20-7	Xylene (Total)	4.9	U
100-42-5	Styrene	4.9	U
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U
108-86-1	Bromobenzene	4.9	U
96-18-4	1,2,3-Trichloropropane	4.9	U
103-65-1	n-Propylbenzene	4.9	U
95-49-8	2-Chlorotoluene	4.9	U
108-67-8	1,3,5-Trimethylbenzene	4.9	U
106-43-4	4-Chlorotoluene	4.9	U
98-06-6	tert-Butylbenzene	4.9	U
95-63-6	1,2,4-Trimethylbenzene	4.9	U
135-98-8	sec-Butylbenzene	4.9	U
99-87-6	4-Isopropyltoluene	4.9	U
541-73-1	1,3-Dichlorobenzene	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U
104-51-8	n-Butylbenzene	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U
87-68-3	Hexachlorobutadiene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U
91-20-3	Naphthalene	4.9	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-91-102714 3-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-02A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1N2027.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 7.8 Date Analyzed: 11/04/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-94-102714 1-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-03A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1N2028.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 15 Date Analyzed: 11/04/2014

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
74-88-4	Iodomethane	5.6	U
75-15-0	Carbon disulfide	5.6	U
75-09-2	Methylene chloride	2.8	JL
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
108-05-4	Vinyl acetate	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.6	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-94-102714 1-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-03A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1N2028.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 15 Date Analyzed: 11/04/2014

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U
100-41-4	Ethylbenzene	5.6	U
179601-23-1	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.6	U
96-18-4	1,2,3-Trichloropropane	5.6	U
103-65-1	n-Propylbenzene	5.6	U
95-49-8	2-Chlorotoluene	5.6	U
108-67-8	1,3,5-Trimethylbenzene	5.6	U
106-43-4	4-Chlorotoluene	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
99-87-6	4-Isopropyltoluene	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
87-68-3	Hexachlorobutadiene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
91-20-3	Naphthalene	5.6	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-94-102714 1-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-03A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1N2028.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 15 Date Analyzed: 11/04/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-87-102714 7-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-04A

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V1N2070.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 23 Date Analyzed: 11/05/2014

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	7.2	U
74-87-3	Chloromethane	7.2	U
75-01-4	Vinyl chloride	7.2	U
74-83-9	Bromomethane	7.2	U
75-00-3	Chloroethane	7.2	U
75-69-4	Trichlorofluoromethane	7.2	U
75-35-4	1,1-Dichloroethene	7.2	U
67-64-1	Acetone	7.5	JL
74-88-4	Iodomethane	7.2	U
75-15-0	Carbon disulfide	7.2	U
75-09-2	Methylene chloride	7.2	U
156-60-5	trans-1,2-Dichloroethene	7.2	U
1634-04-4	Methyl tert-butyl ether	7.2	U
75-34-3	1,1-Dichloroethane	7.2	U
108-05-4	Vinyl acetate	7.2	U
78-93-3	2-Butanone	7.2	U
156-59-2	cis-1,2-Dichloroethene	7.2	U
594-20-7	2,2-Dichloropropane	7.2	U
74-97-5	Bromochloromethane	7.2	U
67-66-3	Chloroform	7.2	U
71-55-6	1,1,1-Trichloroethane	7.2	U
563-58-6	1,1-Dichloropropene	7.2	U
56-23-5	Carbon tetrachloride	7.2	U
107-06-2	1,2-Dichloroethane	7.2	U
71-43-2	Benzene	7.2	U
79-01-6	Trichloroethene	7.2	U
78-87-5	1,2-Dichloropropane	7.2	U
74-95-3	Dibromomethane	7.2	U
75-27-4	Bromodichloromethane	7.2	U
10061-01-5	cis-1,3-Dichloropropene	7.2	U
108-10-1	4-Methyl-2-pentanone	7.2	U
108-88-3	Toluene	7.2	U
10061-02-6	trans-1,3-Dichloropropene	7.2	U
79-00-5	1,1,2-Trichloroethane	7.2	U
142-28-9	1,3-Dichloropropane	7.2	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-87-102714 7-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-04A

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V1N2070.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 23 Date Analyzed: 11/05/2014

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
127-18-4	Tetrachloroethene	2.8	JL
591-78-6	2-Hexanone	7.2	U
124-48-1	Dibromochloromethane	7.2	U
106-93-4	1,2-Dibromoethane	7.2	U
108-90-7	Chlorobenzene	7.2	U
630-20-6	1,1,1,2-Tetrachloroethane	7.2	U
100-41-4	Ethylbenzene	7.2	U
179601-23-1	m,p-Xylene	7.2	U
95-47-6	o-Xylene	7.2	U
1330-20-7	Xylene (Total)	7.2	U
100-42-5	Styrene	7.2	U
75-25-2	Bromoform	7.2	U
98-82-8	Isopropylbenzene	7.2	U
79-34-5	1,1,2,2-Tetrachloroethane	7.2	U
108-86-1	Bromobenzene	7.2	U
96-18-4	1,2,3-Trichloropropane	7.2	U
103-65-1	n-Propylbenzene	7.2	U
95-49-8	2-Chlorotoluene	7.2	U
108-67-8	1,3,5-Trimethylbenzene	7.2	U
106-43-4	4-Chlorotoluene	7.2	U
98-06-6	tert-Butylbenzene	7.2	U
95-63-6	1,2,4-Trimethylbenzene	7.2	U
135-98-8	sec-Butylbenzene	7.2	U
99-87-6	4-Isopropyltoluene	7.2	U
541-73-1	1,3-Dichlorobenzene	7.2	U
106-46-7	1,4-Dichlorobenzene	7.2	U
104-51-8	n-Butylbenzene	7.2	U
95-50-1	1,2-Dichlorobenzene	7.2	U
96-12-8	1,2-Dibromo-3-chloropropane	7.2	U
120-82-1	1,2,4-Trichlorobenzene	7.2	U
87-68-3	Hexachlorobutadiene	7.2	U
87-61-6	1,2,3-Trichlorobenzene	7.2	U
91-20-3	Naphthalene	7.2	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-87-102714 7-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-04A

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V1N2070.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 23 Date Analyzed: 11/05/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-90-102714 3-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-05A

Sample wt/vol: 5.70 (g/mL) G Lab File ID: V1N2030.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 16 Date Analyzed: 11/04/2014

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
74-88-4	Iodomethane	5.2	U
75-15-0	Carbon disulfide	5.2	U
75-09-2	Methylene chloride	2.1	JL
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
108-05-4	Vinyl acetate	5.2	U
78-93-3	2-Butanone	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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	1.2	JL
78-87-5	1,2-Dichloropropane	5.2	U
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.2	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-90-102714 3-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-05A

Sample wt/vol: 5.70 (g/mL) G Lab File ID: V1N2030.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 16 Date Analyzed: 11/04/2014

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
127-18-4	Tetrachloroethene	110	JL
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
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U
100-41-4	Ethylbenzene	5.2	U
179601-23-1	m,p-Xylene	5.2	U
95-47-6	o-Xylene	5.2	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.2	U
96-18-4	1,2,3-Trichloropropane	5.2	U
103-65-1	n-Propylbenzene	5.2	U
95-49-8	2-Chlorotoluene	5.2	U
108-67-8	1,3,5-Trimethylbenzene	5.2	U
106-43-4	4-Chlorotoluene	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
99-87-6	4-Isopropyltoluene	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
87-68-3	Hexachlorobutadiene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U
91-20-3	Naphthalene	5.2	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-90-102714 3-4

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-05A

Sample wt/vol: 5.70 (g/mL) G Lab File ID: V1N2030.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 16 Date Analyzed: 11/04/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-88-102714 4-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-06A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1N2031.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 24 Date Analyzed: 11/04/2014

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
74-88-4	Iodomethane	6.1	U
75-15-0	Carbon disulfide	6.1	U
75-09-2	Methylene chloride	2.7	JL
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
108-05-4	Vinyl acetate	6.1	U
78-93-3	2-Butanone	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	6.1	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-88-102714 4-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-06A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1N2031.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 24 Date Analyzed: 11/04/2014

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
127-18-4	Tetrachloroethene	5.2	JL
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
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U
100-41-4	Ethylbenzene	6.1	U
179601-23-1	m,p-Xylene	6.1	U
95-47-6	o-Xylene	6.1	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	6.1	U
96-18-4	1,2,3-Trichloropropane	6.1	U
103-65-1	n-Propylbenzene	6.1	U
95-49-8	2-Chlorotoluene	6.1	U
108-67-8	1,3,5-Trimethylbenzene	6.1	U
106-43-4	4-Chlorotoluene	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
99-87-6	4-Isopropyltoluene	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
87-68-3	Hexachlorobutadiene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
91-20-3	Naphthalene	6.1	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-88-102714 4-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-06A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1N2031.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 24 Date Analyzed: 11/04/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-93-102714 2-3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-07A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1N2032.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 27 Date Analyzed: 11/04/2014

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	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
67-64-1	Acetone	6.4	U
74-88-4	Iodomethane	6.4	U
75-15-0	Carbon disulfide	6.4	U
75-09-2	Methylene chloride	4.5	JL
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
108-05-4	Vinyl acetate	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
594-20-7	2,2-Dichloropropane	6.4	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
563-58-6	1,1-Dichloropropene	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
71-43-2	Benzene	6.4	U
79-01-6	Trichloroethene	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
74-95-3	Dibromomethane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
142-28-9	1,3-Dichloropropane	6.4	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-93-102714 2-3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-07A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1N2032.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 27 Date Analyzed: 11/04/2014

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
127-18-4	Tetrachloroethene	14	JL
591-78-6	2-Hexanone	6.4	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
630-20-6	1,1,1,2-Tetrachloroethane	6.4	U
100-41-4	Ethylbenzene	6.4	U
179601-23-1	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
1330-20-7	Xylene (Total)	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
108-86-1	Bromobenzene	6.4	U
96-18-4	1,2,3-Trichloropropane	6.4	U
103-65-1	n-Propylbenzene	6.4	U
95-49-8	2-Chlorotoluene	6.4	U
108-67-8	1,3,5-Trimethylbenzene	6.4	U
106-43-4	4-Chlorotoluene	6.4	U
98-06-6	tert-Butylbenzene	6.4	U
95-63-6	1,2,4-Trimethylbenzene	6.4	U
135-98-8	sec-Butylbenzene	6.4	U
99-87-6	4-Isopropyltoluene	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
104-51-8	n-Butylbenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-68-3	Hexachlorobutadiene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
91-20-3	Naphthalene	6.4	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-93-102714 2-3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-07A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V1N2032.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 27 Date Analyzed: 11/04/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-89-102714 5-6

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-08A

Sample wt/vol: .70 (g/mL) G Lab File ID: V1N2057.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 15 Date Analyzed: 11/05/2014

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	42	U
74-87-3	Chloromethane	42	U
75-01-4	Vinyl chloride	42	U
74-83-9	Bromomethane	42	U
75-00-3	Chloroethane	42	U
75-69-4	Trichlorofluoromethane	42	U
75-35-4	1,1-Dichloroethene	42	U
67-64-1	Acetone	42	U
74-88-4	Iodomethane	42	U
75-15-0	Carbon disulfide	42	U
75-09-2	Methylene chloride	42	U
156-60-5	trans-1,2-Dichloroethene	42	U
1634-04-4	Methyl tert-butyl ether	42	U
75-34-3	1,1-Dichloroethane	42	U
108-05-4	Vinyl acetate	42	U
78-93-3	2-Butanone	42	U
156-59-2	cis-1,2-Dichloroethene	42	U
594-20-7	2,2-Dichloropropane	42	U
74-97-5	Bromochloromethane	42	U
67-66-3	Chloroform	42	U
71-55-6	1,1,1-Trichloroethane	42	U
563-58-6	1,1-Dichloropropene	42	U
56-23-5	Carbon tetrachloride	42	U
107-06-2	1,2-Dichloroethane	42	U
71-43-2	Benzene	42	U
79-01-6	Trichloroethene	17	JL
78-87-5	1,2-Dichloropropane	42	U
74-95-3	Dibromomethane	42	U
75-27-4	Bromodichloromethane	42	U
10061-01-5	cis-1,3-Dichloropropene	42	U
108-10-1	4-Methyl-2-pentanone	42	U
108-88-3	Toluene	42	U
10061-02-6	trans-1,3-Dichloropropene	42	U
79-00-5	1,1,2-Trichloroethane	42	U
142-28-9	1,3-Dichloropropane	42	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-89-102714 5-6

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-08A

Sample wt/vol: .70 (g/mL) G Lab File ID: V1N2057.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 15 Date Analyzed: 11/05/2014

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
127-18-4	Tetrachloroethene	810	
591-78-6	2-Hexanone	42	U
124-48-1	Dibromochloromethane	42	U
106-93-4	1,2-Dibromoethane	42	U
108-90-7	Chlorobenzene	42	U
630-20-6	1,1,1,2-Tetrachloroethane	42	U
100-41-4	Ethylbenzene	42	U
179601-23-1	m,p-Xylene	42	U
95-47-6	o-Xylene	42	U
1330-20-7	Xylene (Total)	42	U
100-42-5	Styrene	42	U
75-25-2	Bromoform	42	U
98-82-8	Isopropylbenzene	42	U
79-34-5	1,1,2,2-Tetrachloroethane	42	U
108-86-1	Bromobenzene	42	U
96-18-4	1,2,3-Trichloropropane	42	U
103-65-1	n-Propylbenzene	42	U
95-49-8	2-Chlorotoluene	42	U
108-67-8	1,3,5-Trimethylbenzene	42	U
106-43-4	4-Chlorotoluene	42	U
98-06-6	tert-Butylbenzene	42	U
95-63-6	1,2,4-Trimethylbenzene	42	U
135-98-8	sec-Butylbenzene	42	U
99-87-6	4-Isopropyltoluene	42	U
541-73-1	1,3-Dichlorobenzene	42	U
106-46-7	1,4-Dichlorobenzene	42	U
104-51-8	n-Butylbenzene	42	U
95-50-1	1,2-Dichlorobenzene	42	U
96-12-8	1,2-Dibromo-3-chloropropane	42	U
120-82-1	1,2,4-Trichlorobenzene	42	U
87-68-3	Hexachlorobutadiene	42	U
87-61-6	1,2,3-Trichlorobenzene	42	U
91-20-3	Naphthalene	42	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-89-102714 5-6

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-08A

Sample wt/vol: .70 (g/mL) G Lab File ID: V1N2057.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 15 Date Analyzed: 11/05/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-01-102714

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-09A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1N2056.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 24 Date Analyzed: 11/05/2014

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	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
67-64-1	Acetone	6.4	U
74-88-4	Iodomethane	6.4	U
75-15-0	Carbon disulfide	6.4	U
75-09-2	Methylene chloride	6.4	U
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
108-05-4	Vinyl acetate	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
594-20-7	2,2-Dichloropropane	6.4	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
563-58-6	1,1-Dichloropropene	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
71-43-2	Benzene	6.4	U
79-01-6	Trichloroethene	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
74-95-3	Dibromomethane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
142-28-9	1,3-Dichloropropane	6.4	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-01-102714

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-09A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1N2056.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 24 Date Analyzed: 11/05/2014

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
127-18-4	Tetrachloroethene	3.4	JL
591-78-6	2-Hexanone	6.4	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
630-20-6	1,1,1,2-Tetrachloroethane	6.4	U
100-41-4	Ethylbenzene	6.4	U
179601-23-1	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
1330-20-7	Xylene (Total)	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
108-86-1	Bromobenzene	6.4	U
96-18-4	1,2,3-Trichloropropane	6.4	U
103-65-1	n-Propylbenzene	6.4	U
95-49-8	2-Chlorotoluene	6.4	U
108-67-8	1,3,5-Trimethylbenzene	6.4	U
106-43-4	4-Chlorotoluene	6.4	U
98-06-6	tert-Butylbenzene	6.4	U
95-63-6	1,2,4-Trimethylbenzene	6.4	U
135-98-8	sec-Butylbenzene	6.4	U
99-87-6	4-Isopropyltoluene	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
104-51-8	n-Butylbenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-68-3	Hexachlorobutadiene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
91-20-3	Naphthalene	6.4	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUP-01-102714

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-09A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1N2056.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 24 Date Analyzed: 11/05/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-01-102714RX

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-09ARE

Sample wt/vol: 4.20 (g/mL) G Lab File ID: V1N2069.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 24 Date Analyzed: 11/05/2014

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	7.9	U
74-87-3	Chloromethane	7.9	U
75-01-4	Vinyl chloride	7.9	U
74-83-9	Bromomethane	7.9	U
75-00-3	Chloroethane	7.9	U
75-69-4	Trichlorofluoromethane	7.9	U
75-35-4	1,1-Dichloroethene	7.9	U
67-64-1	Acetone	7.9	U
74-88-4	Iodomethane	7.9	U
75-15-0	Carbon disulfide	7.9	U
75-09-2	Methylene chloride	7.9	U
156-60-5	trans-1,2-Dichloroethene	7.9	U
1634-04-4	Methyl tert-butyl ether	7.9	U
75-34-3	1,1-Dichloroethane	7.9	U
108-05-4	Vinyl acetate	7.9	U
78-93-3	2-Butanone	7.9	U
156-59-2	cis-1,2-Dichloroethene	7.9	U
594-20-7	2,2-Dichloropropane	7.9	U
74-97-5	Bromochloromethane	7.9	U
67-66-3	Chloroform	7.9	U
71-55-6	1,1,1-Trichloroethane	7.9	U
563-58-6	1,1-Dichloropropene	7.9	U
56-23-5	Carbon tetrachloride	7.9	U
107-06-2	1,2-Dichloroethane	7.9	U
71-43-2	Benzene	7.9	U
79-01-6	Trichloroethene	7.9	U
78-87-5	1,2-Dichloropropane	7.9	U
74-95-3	Dibromomethane	7.9	U
75-27-4	Bromodichloromethane	7.9	U
10061-01-5	cis-1,3-Dichloropropene	7.9	U
108-10-1	4-Methyl-2-pentanone	7.9	U
108-88-3	Toluene	7.9	U
10061-02-6	trans-1,3-Dichloropropene	7.9	U
79-00-5	1,1,2-Trichloroethane	7.9	U
142-28-9	1,3-Dichloropropane	7.9	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-01-102714RX

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-09ARE

Sample wt/vol: 4.20 (g/mL) G Lab File ID: V1N2069.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 24 Date Analyzed: 11/05/2014

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
127-18-4	Tetrachloroethene	2.7	JL
591-78-6	2-Hexanone	7.9	U
124-48-1	Dibromochloromethane	7.9	U
106-93-4	1,2-Dibromoethane	7.9	U
108-90-7	Chlorobenzene	7.9	U
630-20-6	1,1,1,2-Tetrachloroethane	7.9	U
100-41-4	Ethylbenzene	7.9	U
179601-23-1	m,p-Xylene	7.9	U
95-47-6	o-Xylene	7.9	U
1330-20-7	Xylene (Total)	7.9	U
100-42-5	Styrene	7.9	U
75-25-2	Bromoform	7.9	U
98-82-8	Isopropylbenzene	7.9	U
79-34-5	1,1,2,2-Tetrachloroethane	7.9	U
108-86-1	Bromobenzene	7.9	U
96-18-4	1,2,3-Trichloropropane	7.9	U
103-65-1	n-Propylbenzene	7.9	U
95-49-8	2-Chlorotoluene	7.9	U
108-67-8	1,3,5-Trimethylbenzene	7.9	U
106-43-4	4-Chlorotoluene	7.9	U
98-06-6	tert-Butylbenzene	7.9	U
95-63-6	1,2,4-Trimethylbenzene	7.9	U
135-98-8	sec-Butylbenzene	7.9	U
99-87-6	4-Isopropyltoluene	7.9	U
541-73-1	1,3-Dichlorobenzene	7.9	U
106-46-7	1,4-Dichlorobenzene	7.9	U
104-51-8	n-Butylbenzene	7.9	U
95-50-1	1,2-Dichlorobenzene	7.9	U
96-12-8	1,2-Dibromo-3-chloropropane	7.9	U
120-82-1	1,2,4-Trichlorobenzene	7.9	U
87-68-3	Hexachlorobutadiene	7.9	U
87-61-6	1,2,3-Trichlorobenzene	7.9	U
91-20-3	Naphthalene	7.9	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUP-01-102714RX

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-09ARE

Sample wt/vol: 4.20 (g/mL) G Lab File ID: V1N2069.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 24 Date Analyzed: 11/05/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK-102714

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N2023-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7917.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. Date Analyzed: 11/03/2014

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
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK-102714

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N2023-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7917.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. Date Analyzed: 11/03/2014

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	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
99-87-6	4-Isopropyltoluene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLANK-102714

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N2023-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7917.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. Date Analyzed: 11/03/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-79801

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7915.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/03/2014

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	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	1.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
108-05-4	Vinyl acetate	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
74-95-3	Dibromomethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-79801

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7915.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/03/2014

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
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
1330-20-7	Xylene (Total)	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
91-20-3	Naphthalene	1.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-79801

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7915.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/03/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79840

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79840

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2025.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 11/04/2014

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	5.0	U
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79840

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79840

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2025.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 11/04/2014

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	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
99-87-6	4-Isopropyltoluene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-79840

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79840

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2025.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/04/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79857

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79857

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2054.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 11/05/2014

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	5.0	U
74-88-4	Iodomethane	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
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	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
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	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
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-79857

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79857

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2054.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 11/05/2014

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
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
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	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
99-87-6	4-Isopropyltoluene	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
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-79857

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-79857

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2054.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/05/2014

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

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-79801

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7913.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/03/2014

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	54	
74-87-3	Chloromethane	54	
75-01-4	Vinyl chloride	55	
74-83-9	Bromomethane	63	
75-00-3	Chloroethane	54	
75-69-4	Trichlorofluoromethane	60	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	67	
74-88-4	Iodomethane	100	
75-15-0	Carbon disulfide	51	
75-09-2	Methylene chloride	50	
156-60-5	trans-1,2-Dichloroethene	52	
1634-04-4	Methyl tert-butyl ether	54	
75-34-3	1,1-Dichloroethane	51	
108-05-4	Vinyl acetate	58	
78-93-3	2-Butanone	61	
156-59-2	cis-1,2-Dichloroethene	50	
594-20-7	2,2-Dichloropropane	58	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	54	
71-55-6	1,1,1-Trichloroethane	56	
563-58-6	1,1-Dichloropropene	49	
56-23-5	Carbon tetrachloride	58	
107-06-2	1,2-Dichloroethane	55	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	51	
74-95-3	Dibromomethane	54	
75-27-4	Bromodichloromethane	56	
10061-01-5	cis-1,3-Dichloropropene	57	
108-10-1	4-Methyl-2-pentanone	55	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	60	
79-00-5	1,1,2-Trichloroethane	51	
142-28-9	1,3-Dichloropropane	48	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-79801

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7913.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/03/2014

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
127-18-4	Tetrachloroethene	49	
591-78-6	2-Hexanone	56	
124-48-1	Dibromochloromethane	53	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	48	
630-20-6	1,1,1,2-Tetrachloroethane	53	
100-41-4	Ethylbenzene	52	
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	51	
75-25-2	Bromoform	57	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-86-1	Bromobenzene	47	
96-18-4	1,2,3-Trichloropropane	52	
103-65-1	n-Propylbenzene	49	
95-49-8	2-Chlorotoluene	48	
108-67-8	1,3,5-Trimethylbenzene	51	
106-43-4	4-Chlorotoluene	48	
98-06-6	tert-Butylbenzene	52	
95-63-6	1,2,4-Trimethylbenzene	51	
135-98-8	sec-Butylbenzene	52	
99-87-6	4-Isopropyltoluene	53	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	47	
104-51-8	n-Butylbenzene	55	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-chloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	51	
87-68-3	Hexachlorobutadiene	51	
87-61-6	1,2,3-Trichlorobenzene	51	
91-20-3	Naphthalene	51	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79840

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79840

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2023.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 11/04/2014

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	37	
74-87-3	Chloromethane	49	
75-01-4	Vinyl chloride	54	
74-83-9	Bromomethane	52	
75-00-3	Chloroethane	53	
75-69-4	Trichlorofluoromethane	57	
75-35-4	1,1-Dichloroethene	56	
67-64-1	Acetone	66	
74-88-4	Iodomethane	57	
75-15-0	Carbon disulfide	56	
75-09-2	Methylene chloride	56	
156-60-5	trans-1,2-Dichloroethene	59	
1634-04-4	Methyl tert-butyl ether	54	
75-34-3	1,1-Dichloroethane	56	
108-05-4	Vinyl acetate	50	
78-93-3	2-Butanone	54	
156-59-2	cis-1,2-Dichloroethene	59	
594-20-7	2,2-Dichloropropane	54	
74-97-5	Bromochloromethane	57	
67-66-3	Chloroform	55	
71-55-6	1,1,1-Trichloroethane	57	
563-58-6	1,1-Dichloropropene	61	
56-23-5	Carbon tetrachloride	57	
107-06-2	1,2-Dichloroethane	53	
71-43-2	Benzene	57	
79-01-6	Trichloroethene	56	
78-87-5	1,2-Dichloropropane	57	
74-95-3	Dibromomethane	55	
75-27-4	Bromodichloromethane	55	
10061-01-5	cis-1,3-Dichloropropene	56	
108-10-1	4-Methyl-2-pentanone	54	
108-88-3	Toluene	56	
10061-02-6	trans-1,3-Dichloropropene	55	
79-00-5	1,1,2-Trichloroethane	56	
142-28-9	1,3-Dichloropropane	54	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79840

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79840

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2023.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 11/04/2014

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
127-18-4	Tetrachloroethene	55	
591-78-6	2-Hexanone	50	
124-48-1	Dibromochloromethane	55	
106-93-4	1,2-Dibromoethane	54	
108-90-7	Chlorobenzene	55	
630-20-6	1,1,1,2-Tetrachloroethane	54	
100-41-4	Ethylbenzene	54	
179601-23-1	m,p-Xylene	110	
95-47-6	o-Xylene	54	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	56	
75-25-2	Bromoform	52	
98-82-8	Isopropylbenzene	55	
79-34-5	1,1,2,2-Tetrachloroethane	54	
108-86-1	Bromobenzene	53	
96-18-4	1,2,3-Trichloropropane	55	
103-65-1	n-Propylbenzene	56	
95-49-8	2-Chlorotoluene	55	
108-67-8	1,3,5-Trimethylbenzene	53	
106-43-4	4-Chlorotoluene	53	
98-06-6	tert-Butylbenzene	54	
95-63-6	1,2,4-Trimethylbenzene	52	
135-98-8	sec-Butylbenzene	54	
99-87-6	4-Isopropyltoluene	53	
541-73-1	1,3-Dichlorobenzene	54	
106-46-7	1,4-Dichlorobenzene	52	
104-51-8	n-Butylbenzene	55	
95-50-1	1,2-Dichlorobenzene	53	
96-12-8	1,2-Dibromo-3-chloropropane	56	
120-82-1	1,2,4-Trichlorobenzene	59	
87-68-3	Hexachlorobutadiene	55	
87-61-6	1,2,3-Trichlorobenzene	59	
91-20-3	Naphthalene	61	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79857

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79857

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2052.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 11/05/2014

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	34	
74-87-3	Chloromethane	46	
75-01-4	Vinyl chloride	51	
74-83-9	Bromomethane	53	
75-00-3	Chloroethane	51	
75-69-4	Trichlorofluoromethane	55	
75-35-4	1,1-Dichloroethene	57	
67-64-1	Acetone	59	
74-88-4	Iodomethane	58	
75-15-0	Carbon disulfide	60	
75-09-2	Methylene chloride	54	
156-60-5	trans-1,2-Dichloroethene	58	
1634-04-4	Methyl tert-butyl ether	49	
75-34-3	1,1-Dichloroethane	52	
108-05-4	Vinyl acetate	50	
78-93-3	2-Butanone	49	
156-59-2	cis-1,2-Dichloroethene	57	
594-20-7	2,2-Dichloropropane	52	
74-97-5	Bromochloromethane	56	
67-66-3	Chloroform	53	
71-55-6	1,1,1-Trichloroethane	52	
563-58-6	1,1-Dichloropropene	61	
56-23-5	Carbon tetrachloride	54	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	56	
79-01-6	Trichloroethene	53	
78-87-5	1,2-Dichloropropane	53	
74-95-3	Dibromomethane	53	
75-27-4	Bromodichloromethane	51	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	47	
108-88-3	Toluene	55	
10061-02-6	trans-1,3-Dichloropropene	53	
79-00-5	1,1,2-Trichloroethane	54	
142-28-9	1,3-Dichloropropane	52	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-79857

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-79857

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1N2052.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 11/05/2014

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
127-18-4	Tetrachloroethene	56	
591-78-6	2-Hexanone	47	
124-48-1	Dibromochloromethane	53	
106-93-4	1,2-Dibromoethane	54	
108-90-7	Chlorobenzene	56	
630-20-6	1,1,1,2-Tetrachloroethane	55	
100-41-4	Ethylbenzene	57	
179601-23-1	m,p-Xylene	120	
95-47-6	o-Xylene	55	
1330-20-7	Xylene (Total)	170	
100-42-5	Styrene	57	
75-25-2	Bromoform	54	
98-82-8	Isopropylbenzene	58	
79-34-5	1,1,2,2-Tetrachloroethane	50	
108-86-1	Bromobenzene	50	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	54	
95-49-8	2-Chlorotoluene	53	
108-67-8	1,3,5-Trimethylbenzene	52	
106-43-4	4-Chlorotoluene	53	
98-06-6	tert-Butylbenzene	53	
95-63-6	1,2,4-Trimethylbenzene	51	
135-98-8	sec-Butylbenzene	55	
99-87-6	4-Isopropyltoluene	53	
541-73-1	1,3-Dichlorobenzene	52	
106-46-7	1,4-Dichlorobenzene	52	
104-51-8	n-Butylbenzene	54	
95-50-1	1,2-Dichlorobenzene	52	
96-12-8	1,2-Dibromo-3-chloropropane	47	
120-82-1	1,2,4-Trichlorobenzene	53	
87-68-3	Hexachlorobutadiene	52	
87-61-6	1,2,3-Trichlorobenzene	52	
91-20-3	Naphthalene	52	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-79801

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7914.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/03/2014

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	55	
74-87-3	Chloromethane	54	
75-01-4	Vinyl chloride	56	
74-83-9	Bromomethane	62	
75-00-3	Chloroethane	54	
75-69-4	Trichlorofluoromethane	60	
75-35-4	1,1-Dichloroethene	51	
67-64-1	Acetone	61	
74-88-4	Iodomethane	110	
75-15-0	Carbon disulfide	49	
75-09-2	Methylene chloride	51	
156-60-5	trans-1,2-Dichloroethene	52	
1634-04-4	Methyl tert-butyl ether	55	
75-34-3	1,1-Dichloroethane	52	
108-05-4	Vinyl acetate	60	
78-93-3	2-Butanone	51	
156-59-2	cis-1,2-Dichloroethene	51	
594-20-7	2,2-Dichloropropane	59	
74-97-5	Bromochloromethane	53	
67-66-3	Chloroform	55	
71-55-6	1,1,1-Trichloroethane	56	
563-58-6	1,1-Dichloropropene	50	
56-23-5	Carbon tetrachloride	58	
107-06-2	1,2-Dichloroethane	58	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	52	
78-87-5	1,2-Dichloropropane	52	
74-95-3	Dibromomethane	55	
75-27-4	Bromodichloromethane	56	
10061-01-5	cis-1,3-Dichloropropene	57	
108-10-1	4-Methyl-2-pentanone	57	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	62	
79-00-5	1,1,2-Trichloroethane	52	
142-28-9	1,3-Dichloropropane	49	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-79801

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D7914.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/03/2014

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
127-18-4	Tetrachloroethene	48	
591-78-6	2-Hexanone	54	
124-48-1	Dibromochloromethane	53	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	54	
100-41-4	Ethylbenzene	53	
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	51	
75-25-2	Bromoform	56	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	47	
108-86-1	Bromobenzene	47	
96-18-4	1,2,3-Trichloropropane	52	
103-65-1	n-Propylbenzene	48	
95-49-8	2-Chlorotoluene	47	
108-67-8	1,3,5-Trimethylbenzene	49	
106-43-4	4-Chlorotoluene	47	
98-06-6	tert-Butylbenzene	50	
95-63-6	1,2,4-Trimethylbenzene	49	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	49	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	46	
104-51-8	n-Butylbenzene	51	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	47	
87-68-3	Hexachlorobutadiene	46	
87-61-6	1,2,3-Trichlorobenzene	47	
91-20-3	Naphthalene	49	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-87-102714
7-8MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-04AMS

Sample wt/vol: 6.00 (g/mL) G Lab File ID: V1N2035.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 23 Date Analyzed: 11/04/2014

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	28	JL
74-87-3	Chloromethane	38	JL
75-01-4	Vinyl chloride	38	JL
74-83-9	Bromomethane	38	JL
75-00-3	Chloroethane	38	JL
75-69-4	Trichlorofluoromethane	41	JL
75-35-4	1,1-Dichloroethene	39	JL
67-64-1	Acetone	59	JL
74-88-4	Iodomethane	32	JL
75-15-0	Carbon disulfide	34	JL
75-09-2	Methylene chloride	40	JL
156-60-5	trans-1,2-Dichloroethene	34	JL
1634-04-4	Methyl tert-butyl ether	38	JL
75-34-3	1,1-Dichloroethane	35	JL
108-05-4	Vinyl acetate	28	JL
78-93-3	2-Butanone	35	JL
156-59-2	cis-1,2-Dichloroethene	33	JL
594-20-7	2,2-Dichloropropane	38	JL
74-97-5	Bromochloromethane	31	JL
67-66-3	Chloroform	35	JL
71-55-6	1,1,1-Trichloroethane	40	JL
563-58-6	1,1-Dichloropropene	38	JL
56-23-5	Carbon tetrachloride	41	JL
107-06-2	1,2-Dichloroethane	26	JL
71-43-2	Benzene	35	JL
79-01-6	Trichloroethene	31	JL
78-87-5	1,2-Dichloropropane	31	JL
74-95-3	Dibromomethane	24	JL
75-27-4	Bromodichloromethane	27	JL
10061-01-5	cis-1,3-Dichloropropene	17	JL
108-10-1	4-Methyl-2-pentanone	21	JL
108-88-3	Toluene	29	JL
10061-02-6	trans-1,3-Dichloropropene	12	JL
79-00-5	1,1,2-Trichloroethane	22	JL
142-28-9	1,3-Dichloropropane	18	JL

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-87-102714
7-8MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-04AMS

Sample wt/vol: 6.00 (g/mL) G Lab File ID: V1N2035.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 23 Date Analyzed: 11/04/2014

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
127-18-4	Tetrachloroethene	44	JL
591-78-6	2-Hexanone	13	JL
124-48-1	Dibromochloromethane	21	JL
106-93-4	1,2-Dibromoethane	15	JL
108-90-7	Chlorobenzene	25	JL
630-20-6	1,1,1,2-Tetrachloroethane	33	JL
100-41-4	Ethylbenzene	29	JL
179601-23-1	m,p-Xylene	56	JL
95-47-6	o-Xylene	25	JL
1330-20-7	Xylene (Total)	81	JL
100-42-5	Styrene	19	JL
75-25-2	Bromoform	16	JL
98-82-8	Isopropylbenzene	29	JL
79-34-5	1,1,2,2-Tetrachloroethane	21	JL
108-86-1	Bromobenzene	16	JL
96-18-4	1,2,3-Trichloropropane	16	JL
103-65-1	n-Propylbenzene	30	JL
95-49-8	2-Chlorotoluene	27	JL
108-67-8	1,3,5-Trimethylbenzene	30	JL
106-43-4	4-Chlorotoluene	21	JL
98-06-6	tert-Butylbenzene	33	JL
95-63-6	1,2,4-Trimethylbenzene	25	JL
135-98-8	sec-Butylbenzene	33	JL
99-87-6	4-Isopropyltoluene	30	JL
541-73-1	1,3-Dichlorobenzene	16	JL
106-46-7	1,4-Dichlorobenzene	15	JL
104-51-8	n-Butylbenzene	24	JL
95-50-1	1,2-Dichlorobenzene	13	JL
96-12-8	1,2-Dibromo-3-chloropropane	12	JL
120-82-1	1,2,4-Trichlorobenzene	4.1	JL
87-68-3	Hexachlorobutadiene	29	JL
87-61-6	1,2,3-Trichlorobenzene	3.8	JL
91-20-3	Naphthalene	2.3	JL

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-87-102714
7-8MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-04AMSD

Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1N2036.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 23 Date Analyzed: 11/04/2014

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	31	JL
74-87-3	Chloromethane	46	JL
75-01-4	Vinyl chloride	45	JL
74-83-9	Bromomethane	43	JL
75-00-3	Chloroethane	44	JL
75-69-4	Trichlorofluoromethane	49	JL
75-35-4	1,1-Dichloroethene	44	JL
67-64-1	Acetone	66	JL
74-88-4	Iodomethane	53	JL
75-15-0	Carbon disulfide	39	JL
75-09-2	Methylene chloride	45	JL
156-60-5	trans-1,2-Dichloroethene	38	JL
1634-04-4	Methyl tert-butyl ether	44	JL
75-34-3	1,1-Dichloroethane	40	JL
108-05-4	Vinyl acetate	31	JL
78-93-3	2-Butanone	36	JL
156-59-2	cis-1,2-Dichloroethene	35	JL
594-20-7	2,2-Dichloropropane	45	JL
74-97-5	Bromochloromethane	34	JL
67-66-3	Chloroform	39	JL
71-55-6	1,1,1-Trichloroethane	46	JL
563-58-6	1,1-Dichloropropene	42	JL
56-23-5	Carbon tetrachloride	47	JL
107-06-2	1,2-Dichloroethane	27	JL
71-43-2	Benzene	38	JL
79-01-6	Trichloroethene	36	JL
78-87-5	1,2-Dichloropropane	35	JL
74-95-3	Dibromomethane	25	JL
75-27-4	Bromodichloromethane	31	JL
10061-01-5	cis-1,3-Dichloropropene	18	JL
108-10-1	4-Methyl-2-pentanone	23	JL
108-88-3	Toluene	33	JL
10061-02-6	trans-1,3-Dichloropropene	13	JL
79-00-5	1,1,2-Trichloroethane	23	JL
142-28-9	1,3-Dichloropropane	19	JL

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-87-102714
7-8MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: N2023-04AMSD

Sample wt/vol: 5.60 (g/mL) G Lab File ID: V1N2036.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/28/2014

% Moisture: not dec. 23 Date Analyzed: 11/04/2014

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
127-18-4	Tetrachloroethene	54	JL
591-78-6	2-Hexanone	11	JL
124-48-1	Dibromochloromethane	23	JL
106-93-4	1,2-Dibromoethane	13	JL
108-90-7	Chlorobenzene	26	JL
630-20-6	1,1,1,2-Tetrachloroethane	36	JL
100-41-4	Ethylbenzene	31	JL
179601-23-1	m,p-Xylene	62	JL
95-47-6	o-Xylene	29	JL
1330-20-7	Xylene (Total)	91	JL
100-42-5	Styrene	19	JL
75-25-2	Bromoform	17	JL
98-82-8	Isopropylbenzene	35	JL
79-34-5	1,1,2,2-Tetrachloroethane	22	JL
108-86-1	Bromobenzene	16	JL
96-18-4	1,2,3-Trichloropropane	15	JL
103-65-1	n-Propylbenzene	31	JL
95-49-8	2-Chlorotoluene	28	JL
108-67-8	1,3,5-Trimethylbenzene	32	JL
106-43-4	4-Chlorotoluene	20	JL
98-06-6	tert-Butylbenzene	38	JL
95-63-6	1,2,4-Trimethylbenzene	26	JL
135-98-8	sec-Butylbenzene	38	JL
99-87-6	4-Isopropyltoluene	33	JL
541-73-1	1,3-Dichlorobenzene	15	JL
106-46-7	1,4-Dichlorobenzene	14	JL
104-51-8	n-Butylbenzene	26	JL
95-50-1	1,2-Dichlorobenzene	12	JL
96-12-8	1,2-Dibromo-3-chloropropane	10	JL
120-82-1	1,2,4-Trichlorobenzene	3.2	JL
87-68-3	Hexachlorobutadiene	36	JL
87-61-6	1,2,3-Trichlorobenzene	3.0	JL
91-20-3	Naphthalene	2.2	JL

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-79801	112	103	97	105				0
02	LCSD-79801	108	104	97	105				0
03	MB-79801	109	105	96	98				0
04	TRIPBLANK-102714	113	110	96	96				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som14.10.02.1616

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-79840	102	97	100	99				0
02	MB-79840	103	102	98	88				0
03	SB-92-102714 3-4	110	111 *	95	91				1
04	SB-91-102714 3-4	108	102	102	86				0
05	SB-94-102714 1-2	109	105	100	85				0
06	SB-90-102714 3-4	115	108	100	85				0
07	SB-88-102714 4-5	115	105	103	86				0
08	SB-93-102714 2-3	113	110	101	83 *				1
09	SB-87-102714 7-8MS	107	112 *	103	94				1
10	SB-87-102714 7-8MSD	107	110	104	95				0
11	LCS-79857	99	107	100	100				0
12	MB-79857	109	101	100	86				0
13	DUP-01-10271 4	114	107	101	79 *				1
14	SB-89-102714 5-6	112	103	98	81 *				1
15	DUP-01-10271 4RX	112	110 *	100	79 *				2
16	SB-87-102714 7-8	108	108	102	77 *				1

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(76-128)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(88-110)
VDMC3	(TOL) = Toluene-d8	(85-115)
VDMC4	(BFB) = Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som14.10.02.1616

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix Spike - EPA Sample No.: SB-87-102714 7-8 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	54.0030	0.0000	27.9415	52		35-135
Chloromethane	54.0030	0.0000	38.1561	71		50-130
Vinyl chloride	54.0030	0.0000	37.5153	69		60-125
Bromomethane	54.0030	0.0000	38.0368	70		30-160
Chloroethane	54.0030	0.0000	38.0372	70		40-155
Trichlorofluoromethane	54.0030	0.0000	40.9191	76		25-185
1,1-Dichloroethene	54.0030	0.0000	39.1358	72		65-135
Acetone	54.0030	7.4956	59.4237	96		20-160
Iodomethane	54.0030	0.0000	31.8050	59	*	70-126
Carbon disulfide	54.0030	0.0000	33.5447	62		45-160
Methylene chloride	54.0030	0.0000	40.2960	75		55-140
trans-1,2-Dichloroethen	54.0030	0.0000	33.9925	63	*	65-135
Methyl tert-butyl ether	54.0030	0.0000	38.0363	70	*	75-126
1,1-Dichloroethane	54.0030	0.0000	35.3016	65	*	75-125
Vinyl acetate	54.0030	0.0000	27.8132	52	*	65-138
2-Butanone	54.0030	0.0000	35.3514	65		30-160
cis-1,2-Dichloroethene	54.0030	0.0000	32.5541	60	*	65-125
2,2-Dichloropropane	54.0030	0.0000	37.9728	70		65-135
Bromochloromethane	54.0030	0.0000	30.5168	57	*	70-125
Chloroform	54.0030	0.0000	35.1714	65	*	70-125
1,1,1-Trichloroethane	54.0030	0.0000	39.9626	74		70-135
1,1-Dichloropropene	54.0030	0.0000	38.0004	70		70-135
Carbon tetrachloride	54.0030	0.0000	41.2804	76		65-135
1,2-Dichloroethane	54.0030	0.0000	25.6568	48	*	70-135
Benzene	54.0030	0.0000	34.7051	64	*	75-125
Trichloroethene	54.0030	0.0000	30.7321	57	*	75-125
1,2-Dichloropropane	54.0030	0.0000	30.5338	57	*	70-120
Dibromomethane	54.0030	0.0000	24.3641	45	*	75-130
Bromodichloromethane	54.0030	0.0000	27.3941	51	*	70-130
cis-1,3-Dichloropropene	54.0030	0.0000	17.3281	32	*	70-125
4-Methyl-2-pentanone	54.0030	0.0000	20.8975	39	*	45-145
Toluene	54.0030	0.0000	29.1312	54	*	70-125
trans-1,3-Dichloroprope	54.0030	0.0000	12.4735	23	*	65-125
1,1,2-Trichloroethane	54.0030	0.0000	22.3819	41	*	60-125
1,3-Dichloropropane	54.0030	0.0000	18.1981	34	*	75-125
Tetrachloroethene	54.0030	2.7722	43.5142	75		65-140
2-Hexanone	54.0030	0.0000	12.7459	24	*	45-145
Dibromochloromethane	54.0030	0.0000	21.2816	39	*	65-130
1,2-Dibromoethane	54.0030	0.0000	14.6336	27	*	70-125
Chlorobenzene	54.0030	0.0000	24.9234	46	*	75-125
1,1,1,2-Tetrachloroetha	54.0030	0.0000	33.2559	62	*	75-125
Ethylbenzene	54.0030	0.0000	28.5820	53	*	75-125
m,p-Xylene	108.0060	0.0000	55.6978	52	*	80-125
o-Xylene	54.0030	0.0000	25.1836	47	*	75-125

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix Spike - EPA Sample No.: SB-87-102714 7-8 Level: (LOW/MED) LOW

Xylene (Total)	162.0091	0.0000	80.8814	50	*	83-125
Styrene	54.0030	0.0000	18.9834	35	*	75-125
Bromoform	54.0030	0.0000	15.9902	30	*	55-135
Isopropylbenzene	54.0030	0.0000	29.3489	54	*	75-130
1,1,2,2-Tetrachloroetha	54.0030	0.0000	21.2620	39	*	55-130
Bromobenzene	54.0030	0.0000	16.1727	30	*	65-120
1,2,3-Trichloropropane	54.0030	0.0000	15.6425	29	*	65-130
n-Propylbenzene	54.0030	0.0000	29.7805	55	*	65-135
2-Chlorotoluene	54.0030	0.0000	27.0007	50	*	70-130
1,3,5-Trimethylbenzene	54.0030	0.0000	30.4923	56	*	65-135
4-Chlorotoluene	54.0030	0.0000	20.8182	39	*	75-125
tert-Butylbenzene	54.0030	0.0000	33.2861	62	*	65-130
1,2,4-Trimethylbenzene	54.0030	0.0000	25.1214	47	*	65-135
sec-Butylbenzene	54.0030	0.0000	32.8996	61	*	65-130
4-Isopropyltoluene	54.0030	0.0000	29.9304	55	*	75-135
1,3-Dichlorobenzene	54.0030	0.0000	16.4788	31	*	70-125
1,4-Dichlorobenzene	54.0030	0.0000	14.7974	27	*	70-125
n-Butylbenzene	54.0030	0.0000	24.2772	45	*	65-140
1,2-Dichlorobenzene	54.0030	0.0000	13.1978	24	*	75-120
1,2-Dibromo-3-chloropro	54.0030	0.0000	11.7526	22	*	40-135
1,2,4-Trichlorobenzene	54.0030	0.0000	4.1199	8	*	65-130
Hexachlorobutadiene	54.0030	0.0000	29.3893	54	*	55-140
1,2,3-Trichlorobenzene	54.0030	0.0000	3.8030	7	*	60-135
Naphthalene	54.0030	0.0000	2.2674	4	*	40-125

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	57.8604	30.7281	53		3		0-40	35-135
Chloromethane	57.8604	46.1341	80		12		0-40	50-130
Vinyl chloride	57.8604	45.0978	78		11		0-40	60-125
Bromomethane	57.8604	43.1045	74		6		0-40	30-160
Chloroethane	57.8604	44.3557	77		8		0-40	40-155
Trichlorofluoromethane	57.8604	49.2667	85		12		0-40	25-185
1,1-Dichloroethene	57.8604	43.9049	76		5		0-40	65-135
Acetone	57.8604	65.6641	101		4		0-40	20-160
Iodomethane	57.8604	52.9812	92		43	*	0-40	70-126
Carbon disulfide	57.8604	39.1771	68		9		0-40	45-160
Methylene chloride	57.8604	45.2584	78		5		0-40	55-140
trans-1,2-Dichloroethen	57.8604	38.3651	66		5		0-40	65-135
Methyl tert-butyl ether	57.8604	43.7071	76		7		0-40	75-126
1,1-Dichloroethane	57.8604	39.8574	69	*	5		0-40	75-125
Vinyl acetate	57.8604	31.2401	54	*	5		0-40	65-138
2-Butanone	57.8604	35.8648	62		5		0-40	30-160
cis-1,2-Dichloroethene	57.8604	35.2480	61	*	1		0-40	65-125
2,2-Dichloropropane	57.8604	44.5382	77		9		0-40	65-135
Bromochloromethane	57.8604	33.9105	59	*	4		0-40	70-125

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix Spike - EPA Sample No.: SB-87-102714 7-8 Level: (LOW/MED) LOW

Chloroform	57.8604	39.1704	68	*	4		0-40	70-125
1,1,1-Trichloroethane	57.8604	45.6788	79		6		0-40	70-135
1,1-Dichloropropene	57.8604	42.2151	73		4		0-40	70-135
Carbon tetrachloride	57.8604	47.0207	81		6		0-40	65-135
1,2-Dichloroethane	57.8604	27.0811	47	*	1		0-40	70-135
Benzene	57.8604	37.9114	66	*	2		0-40	75-125
Trichloroethene	57.8604	36.0787	62	*	9		0-40	75-125
1,2-Dichloropropane	57.8604	34.7455	60	*	6		0-40	70-120
Dibromomethane	57.8604	24.7269	43	*	5		0-40	75-130
Bromodichloromethane	57.8604	30.5946	53	*	4		0-40	70-130
cis-1,3-Dichloropropene	57.8604	18.3144	32	*	1		0-40	70-125
4-Methyl-2-pentanone	57.8604	22.6089	39	*	1		0-40	45-145
Toluene	57.8604	33.0052	57	*	6		0-40	70-125
trans-1,3-Dichloroprope	57.8604	12.6145	22	*	6		0-40	65-125
1,1,2-Trichloroethane	57.8604	22.5181	39	*	6		0-40	60-125
1,3-Dichloropropane	57.8604	18.6621	32	*	4		0-40	75-125
Tetrachloroethene	57.8604	54.0595	89		16		0-40	65-140
2-Hexanone	57.8604	11.2014	19	*	20		0-40	45-145
Dibromochloromethane	57.8604	23.4637	41	*	3		0-40	65-130
1,2-Dibromoethane	57.8604	13.1973	23	*	17		0-40	70-125
Chlorobenzene	57.8604	25.9629	45	*	3		0-40	75-125
1,1,1,2-Tetrachloroetha	57.8604	36.1522	62	*	1		0-40	75-125
Ethylbenzene	57.8604	31.2303	54	*	2		0-40	75-125
m,p-Xylene	115.7208	61.7642	53	*	3		0-40	80-125
o-Xylene	57.8604	28.8016	50	*	7		0-40	75-125
Xylene (Total)	173.5811	90.5658	52	*	4		0-40	83-125
Styrene	57.8604	19.1897	33	*	6		0-40	75-125
Bromoform	57.8604	16.5541	29	*	3		0-40	55-135
Isopropylbenzene	57.8604	34.5167	60	*	9		0-40	75-130
1,1,2,2-Tetrachloroetha	57.8604	21.6412	37	*	5		0-40	55-130
Bromobenzene	57.8604	16.2513	28	*	6		0-40	65-120
1,2,3-Trichloropropane	57.8604	15.1871	26	*	10		0-40	65-130
n-Propylbenzene	57.8604	31.3999	54	*	2		0-40	65-135
2-Chlorotoluene	57.8604	28.0994	49	*	3		0-40	70-130
1,3,5-Trimethylbenzene	57.8604	32.4187	56	*	1		0-40	65-135
4-Chlorotoluene	57.8604	19.5169	34	*	13		0-40	75-125
tert-Butylbenzene	57.8604	37.7199	65		6		0-40	65-130
1,2,4-Trimethylbenzene	57.8604	25.8073	45	*	4		0-40	65-135
sec-Butylbenzene	57.8604	38.2182	66		8		0-40	65-130
4-Isopropyltoluene	57.8604	33.2103	57	*	3		0-40	75-135
1,3-Dichlorobenzene	57.8604	14.9798	26	*	16		0-40	70-125
1,4-Dichlorobenzene	57.8604	13.6163	24	*	15		0-40	70-125
n-Butylbenzene	57.8604	25.5250	44	*	2		0-40	65-140
1,2-Dichlorobenzene	57.8604	12.2138	21	*	15		0-40	75-120
1,2-Dibromo-3-chloropro	57.8604	10.0886	17	*	22		0-40	40-135
1,2,4-Trichlorobenzene	57.8604	3.1849	6	*	32		0-40	65-130
Hexachlorobutadiene	57.8604	36.3675	63		14		0-40	55-140

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Matrix Spike - EPA Sample No.: SB-87-102714 7-8 Level: (LOW/MED) LOW

1,2,3-Trichlorobenzene	57.8604	3.0265	5	*	30		0-40	60-135
Naphthalene	57.8604	2.1858	4	*	11		0-40	40-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 68 outside limits

Spike Recovery: 98 out of 136 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab Sample ID: LCS-79801 LCS Lot No.:

Date Extracted: 11/03/2014 Date Analyzed (1): 11/03/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	54.4604	109		30 - 155
Chloromethane	50.0000	0.0000	53.5142	107		40 - 125
Vinyl chloride	50.0000	0.0000	54.8044	110		50 - 145
Bromomethane	50.0000	0.0000	63.3721	127		30 - 145
Chloroethane	50.0000	0.0000	53.5955	107		60 - 135
Trichlorofluoromethane	50.0000	0.0000	59.9312	120		60 - 145
1,1-Dichloroethene	50.0000	0.0000	50.3814	101		70 - 130
Acetone	50.0000	0.0000	67.0108	134		40 - 140
Iodomethane	50.0000	0.0000	100.7586	202	*	72 - 121
Carbon disulfide	50.0000	0.0000	50.6498	101		35 - 160
Methylene chloride	50.0000	0.0000	49.9755	100		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	51.9041	104		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	53.9901	108		65 - 125
1,1-Dichloroethane	50.0000	0.0000	51.0779	102		70 - 135
Vinyl acetate	50.0000	0.0000	57.9048	116		38 - 163
2-Butanone	50.0000	0.0000	60.6962	121		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	49.5013	99		70 - 125
2,2-Dichloropropane	50.0000	0.0000	58.3244	117		70 - 135
Bromochloromethane	50.0000	0.0000	50.9921	102		65 - 130
Chloroform	50.0000	0.0000	54.1596	108		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	55.9684	112		65 - 130
1,1-Dichloropropene	50.0000	0.0000	48.7085	97		75 - 130
Carbon tetrachloride	50.0000	0.0000	57.5493	115		65 - 140
1,2-Dichloroethane	50.0000	0.0000	55.3426	111		70 - 130
Benzene	50.0000	0.0000	50.3225	101		80 - 120
Trichloroethene	50.0000	0.0000	51.2230	102		70 - 125
1,2-Dichloropropane	50.0000	0.0000	50.8727	102		75 - 125
Dibromomethane	50.0000	0.0000	53.9701	108		75 - 125
Bromodichloromethane	50.0000	0.0000	56.2001	112		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	56.5279	113		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	54.8656	110		60 - 135
Toluene	50.0000	0.0000	51.5423	103		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	59.7704	120		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	50.7597	102		75 - 125
1,3-Dichloropropane	50.0000	0.0000	48.3088	97		75 - 125
Tetrachloroethene	50.0000	0.0000	49.0231	98		45 - 150
2-Hexanone	50.0000	0.0000	56.0164	112		55 - 130
Dibromochloromethane	50.0000	0.0000	53.1007	106		60 - 135
1,2-Dibromoethane	50.0000	0.0000	50.3870	101		80 - 120
Chlorobenzene	50.0000	0.0000	48.4811	97		80 - 120
1,1,1,2-Tetrachloroethane	50.0000	0.0000	53.3111	107		80 - 130
Ethylbenzene	50.0000	0.0000	52.2110	104		75 - 125
m,p-Xylene	100.0000	0.0000	103.6834	104		75 - 130
o-Xylene	50.0000	0.0000	50.4002	101		80 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab Sample ID: LCS-79801 LCS Lot No.:

Date Extracted: 11/03/2014 Date Analyzed (1): 11/03/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	154.0836	103		81 - 121
Styrene	50.0000	0.0000	50.6848	101		65 - 135
Bromoform	50.0000	0.0000	56.7695	114		70 - 130
Isopropylbenzene	50.0000	0.0000	53.3795	107		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	47.7946	96		65 - 130
Bromobenzene	50.0000	0.0000	46.5474	93		75 - 125
1,2,3-Trichloropropane	50.0000	0.0000	52.4029	105		75 - 125
n-Propylbenzene	50.0000	0.0000	49.0586	98		70 - 130
2-Chlorotoluene	50.0000	0.0000	48.0860	96		75 - 125
1,3,5-Trimethylbenzene	50.0000	0.0000	50.6827	101		75 - 130
4-Chlorotoluene	50.0000	0.0000	48.4430	97		75 - 130
tert-Butylbenzene	50.0000	0.0000	51.5652	103		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	50.7596	102		75 - 130
sec-Butylbenzene	50.0000	0.0000	51.5750	103		70 - 125
4-Isopropyltoluene	50.0000	0.0000	52.9609	106		75 - 130
1,3-Dichlorobenzene	50.0000	0.0000	48.6739	97		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	47.1035	94		75 - 125
n-Butylbenzene	50.0000	0.0000	55.4210	111		70 - 135
1,2-Dichlorobenzene	50.0000	0.0000	48.2929	97		70 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	52.3548	105		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	50.5526	101		65 - 135
Hexachlorobutadiene	50.0000	0.0000	50.8315	102		50 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	50.8069	102		55 - 140
Naphthalene	50.0000	0.0000	51.4774	103		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 68 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79840

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab Sample ID: LCS-79840 LCS Lot No.:

Date Extracted: 11/04/2014 Date Analyzed (1): 11/04/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	36.7292	73		35 - 135
Chloromethane	50.0000	0.0000	49.2712	99		50 - 130
Vinyl chloride	50.0000	0.0000	54.0739	108		60 - 125
Bromomethane	50.0000	0.0000	52.3232	105		30 - 160
Chloroethane	50.0000	0.0000	52.8599	106		40 - 155
Trichlorofluoromethane	50.0000	0.0000	56.6832	113		25 - 185
1,1-Dichloroethene	50.0000	0.0000	56.0316	112		65 - 135
Acetone	50.0000	0.0000	65.8475	132		20 - 160
Iodomethane	50.0000	0.0000	57.0495	114		70 - 126
Carbon disulfide	50.0000	0.0000	55.8443	112		45 - 160
Methylene chloride	50.0000	0.0000	56.2336	112		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	58.7860	118		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	54.1424	108		75 - 126
1,1-Dichloroethane	50.0000	0.0000	56.2282	112		75 - 125
Vinyl acetate	50.0000	0.0000	50.4510	101		65 - 138
2-Butanone	50.0000	0.0000	54.3150	109		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	59.3199	119		65 - 125
2,2-Dichloropropane	50.0000	0.0000	54.0009	108		65 - 135
Bromochloromethane	50.0000	0.0000	56.7869	114		70 - 125
Chloroform	50.0000	0.0000	54.7682	110		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	56.8499	114		70 - 135
1,1-Dichloropropene	50.0000	0.0000	61.4014	123		70 - 135
Carbon tetrachloride	50.0000	0.0000	56.6798	113		65 - 135
1,2-Dichloroethane	50.0000	0.0000	53.0044	106		70 - 135
Benzene	50.0000	0.0000	56.7192	113		75 - 125
Trichloroethene	50.0000	0.0000	55.6926	111		75 - 125
1,2-Dichloropropane	50.0000	0.0000	56.5601	113		70 - 120
Dibromomethane	50.0000	0.0000	55.2780	111		75 - 130
Bromodichloromethane	50.0000	0.0000	54.6961	109		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	55.9330	112		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	53.6416	107		45 - 145
Toluene	50.0000	0.0000	55.9543	112		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	54.7956	110		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	56.0794	112		60 - 125
1,3-Dichloropropane	50.0000	0.0000	54.2785	109		75 - 125
Tetrachloroethene	50.0000	0.0000	54.6905	109		65 - 140
2-Hexanone	50.0000	0.0000	50.1240	100		45 - 145
Dibromochloromethane	50.0000	0.0000	54.5090	109		65 - 130
1,2-Dibromoethane	50.0000	0.0000	54.1387	108		70 - 125
Chlorobenzene	50.0000	0.0000	55.3559	111		75 - 125
1,1,1,2-Tetrachloroethane	50.0000	0.0000	53.5753	107		75 - 125
Ethylbenzene	50.0000	0.0000	54.3128	109		75 - 125
m,p-Xylene	100.0000	0.0000	109.1906	109		80 - 125
o-Xylene	50.0000	0.0000	53.9062	108		75 - 125

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79840

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab Sample ID: LCS-79840 LCS Lot No.:

Date Extracted: 11/04/2014 Date Analyzed (1): 11/04/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	163.0968	109		83 - 125
Styrene	50.0000	0.0000	56.2770	113		75 - 125
Bromoform	50.0000	0.0000	52.2045	104		55 - 135
Isopropylbenzene	50.0000	0.0000	54.7398	109		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	54.4435	109		55 - 130
Bromobenzene	50.0000	0.0000	52.6906	105		65 - 120
1,2,3-Trichloropropane	50.0000	0.0000	55.1786	110		65 - 130
n-Propylbenzene	50.0000	0.0000	55.6438	111		65 - 135
2-Chlorotoluene	50.0000	0.0000	55.3334	111		70 - 130
1,3,5-Trimethylbenzene	50.0000	0.0000	53.2385	106		65 - 135
4-Chlorotoluene	50.0000	0.0000	53.2030	106		75 - 125
tert-Butylbenzene	50.0000	0.0000	53.7239	107		65 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	51.9685	104		65 - 135
sec-Butylbenzene	50.0000	0.0000	54.3433	109		65 - 130
4-Isopropyltoluene	50.0000	0.0000	53.3459	107		75 - 135
1,3-Dichlorobenzene	50.0000	0.0000	53.5254	107		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	52.1290	104		70 - 125
n-Butylbenzene	50.0000	0.0000	54.7971	110		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	52.6297	105		75 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	56.4056	113		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	58.7999	118		65 - 130
Hexachlorobutadiene	50.0000	0.0000	55.0871	110		55 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	59.2062	118		60 - 135
Naphthalene	50.0000	0.0000	61.1095	122		40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 68 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79857

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab Sample ID: LCS-79857 LCS Lot No.:

Date Extracted: 11/05/2014 Date Analyzed (1): 11/05/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	34.0132	68		35 - 135
Chloromethane	50.0000	0.0000	46.4478	93		50 - 130
Vinyl chloride	50.0000	0.0000	51.0071	102		60 - 125
Bromomethane	50.0000	0.0000	52.8438	106		30 - 160
Chloroethane	50.0000	0.0000	50.5873	101		40 - 155
Trichlorofluoromethane	50.0000	0.0000	54.7075	109		25 - 185
1,1-Dichloroethene	50.0000	0.0000	56.6295	113		65 - 135
Acetone	50.0000	0.0000	59.0938	118		20 - 160
Iodomethane	50.0000	0.0000	57.7196	115		70 - 126
Carbon disulfide	50.0000	0.0000	59.6336	119		45 - 160
Methylene chloride	50.0000	0.0000	53.7420	107		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	57.9769	116		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	49.0014	98		75 - 126
1,1-Dichloroethane	50.0000	0.0000	51.7434	103		75 - 125
Vinyl acetate	50.0000	0.0000	49.8095	100		65 - 138
2-Butanone	50.0000	0.0000	48.9800	98		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	56.8907	114		65 - 125
2,2-Dichloropropane	50.0000	0.0000	51.7468	103		65 - 135
Bromochloromethane	50.0000	0.0000	56.4817	113		70 - 125
Chloroform	50.0000	0.0000	52.7369	105		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	52.0775	104		70 - 135
1,1-Dichloropropene	50.0000	0.0000	61.0689	122		70 - 135
Carbon tetrachloride	50.0000	0.0000	53.9168	108		65 - 135
1,2-Dichloroethane	50.0000	0.0000	49.6738	99		70 - 135
Benzene	50.0000	0.0000	56.0498	112		75 - 125
Trichloroethene	50.0000	0.0000	53.4819	107		75 - 125
1,2-Dichloropropane	50.0000	0.0000	52.8425	106		70 - 120
Dibromomethane	50.0000	0.0000	52.9049	106		75 - 130
Bromodichloromethane	50.0000	0.0000	50.7396	101		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	52.6556	105		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	47.3250	95		45 - 145
Toluene	50.0000	0.0000	55.4278	111		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	52.8161	106		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	53.7165	107		60 - 125
1,3-Dichloropropane	50.0000	0.0000	51.9247	104		75 - 125
Tetrachloroethene	50.0000	0.0000	56.4666	113		65 - 140
2-Hexanone	50.0000	0.0000	47.4779	95		45 - 145
Dibromochloromethane	50.0000	0.0000	53.2115	106		65 - 130
1,2-Dibromoethane	50.0000	0.0000	54.3344	109		70 - 125
Chlorobenzene	50.0000	0.0000	56.4323	113		75 - 125
1,1,1,2-Tetrachloroethane	50.0000	0.0000	54.7834	110		75 - 125
Ethylbenzene	50.0000	0.0000	56.6620	113		75 - 125
m,p-Xylene	100.0000	0.0000	115.1327	115		80 - 125
o-Xylene	50.0000	0.0000	55.0567	110		75 - 125

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-79857

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab Sample ID: LCS-79857 LCS Lot No.:

Date Extracted: 11/05/2014 Date Analyzed (1): 11/05/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	170.1894	113		83 - 125
Styrene	50.0000	0.0000	57.4132	115		75 - 125
Bromoform	50.0000	0.0000	54.3058	109		55 - 135
Isopropylbenzene	50.0000	0.0000	58.0544	116		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	49.9482	100		55 - 130
Bromobenzene	50.0000	0.0000	49.8534	100		65 - 120
1,2,3-Trichloropropane	50.0000	0.0000	50.1568	100		65 - 130
n-Propylbenzene	50.0000	0.0000	54.0516	108		65 - 135
2-Chlorotoluene	50.0000	0.0000	53.3999	107		70 - 130
1,3,5-Trimethylbenzene	50.0000	0.0000	51.7855	104		65 - 135
4-Chlorotoluene	50.0000	0.0000	53.3382	107		75 - 125
tert-Butylbenzene	50.0000	0.0000	52.9488	106		65 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	51.4222	103		65 - 135
sec-Butylbenzene	50.0000	0.0000	54.9978	110		65 - 130
4-Isopropyltoluene	50.0000	0.0000	53.2263	106		75 - 135
1,3-Dichlorobenzene	50.0000	0.0000	52.2655	105		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	51.8300	104		70 - 125
n-Butylbenzene	50.0000	0.0000	54.2011	108		65 - 140
1,2-Dichlorobenzene	50.0000	0.0000	51.5857	103		75 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	47.0190	94		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	53.0242	106		65 - 130
Hexachlorobutadiene	50.0000	0.0000	51.7987	104		55 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	51.7420	103		60 - 135
Naphthalene	50.0000	0.0000	52.0965	104		40 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 68 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab Sample ID: LCSD-79801 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	54.9875	110		1		40	30 - 155
Chloromethane	50.0000	53.7673	108		1		40	40 - 125
Vinyl chloride	50.0000	55.6255	111		1		40	50 - 145
Bromomethane	50.0000	62.3184	125		2		40	30 - 145
Chloroethane	50.0000	54.3539	109		2		40	60 - 135
Trichlorofluoromethane	50.0000	59.6678	119		1		40	60 - 145
1,1-Dichloroethene	50.0000	51.0917	102		1		40	70 - 130
Acetone	50.0000	60.7491	121		10		40	40 - 140
Iodomethane	50.0000	112.8490	226	*	11		40	72 - 121
Carbon disulfide	50.0000	49.0607	98		3		40	35 - 160
Methylene chloride	50.0000	51.0183	102		2		40	55 - 140
trans-1,2-Dichloroethene	50.0000	51.8106	104		0		40	60 - 140
Methyl tert-butyl ether	50.0000	55.4212	111		3		40	65 - 125
1,1-Dichloroethane	50.0000	52.0733	104		2		40	70 - 135
Vinyl acetate	50.0000	59.9046	120		3		40	38 - 163
2-Butanone	50.0000	50.5016	101		18		40	30 - 150
cis-1,2-Dichloroethene	50.0000	51.2904	103		4		40	70 - 125
2,2-Dichloropropane	50.0000	59.1390	118		1		40	70 - 135
Bromochloromethane	50.0000	52.5800	105		3		40	65 - 130
Chloroform	50.0000	54.8521	110		2		40	65 - 135
1,1,1-Trichloroethane	50.0000	56.0486	112		0		40	65 - 130
1,1-Dichloropropene	50.0000	49.6966	99		2		40	75 - 130
Carbon tetrachloride	50.0000	57.9228	116		1		40	65 - 140
1,2-Dichloroethane	50.0000	57.7437	115		4		40	70 - 130
Benzene	50.0000	51.0296	102		1		40	80 - 120
Trichloroethene	50.0000	52.2631	105		3		40	70 - 125
1,2-Dichloropropane	50.0000	52.1637	104		2		40	75 - 125
Dibromomethane	50.0000	54.8276	110		2		40	75 - 125
Bromodichloromethane	50.0000	55.9010	112		0		40	75 - 120
cis-1,3-Dichloropropene	50.0000	56.8767	114		1		40	70 - 130
4-Methyl-2-pentanone	50.0000	57.0275	114		4		40	60 - 135
Toluene	50.0000	51.9014	104		1		40	75 - 120
trans-1,3-Dichloropropene	50.0000	61.5122	123		2		40	55 - 140
1,1,2-Trichloroethane	50.0000	52.1707	104		2		40	75 - 125
1,3-Dichloropropane	50.0000	48.8005	98		1		40	75 - 125
Tetrachloroethene	50.0000	47.9895	96		2		40	45 - 150
2-Hexanone	50.0000	54.1567	108		4		40	55 - 130
Dibromochloromethane	50.0000	53.1696	106		0		40	60 - 135
1,2-Dibromoethane	50.0000	50.6264	101		0		40	80 - 120
Chlorobenzene	50.0000	48.8961	98		1		40	80 - 120
1,1,1,2-Tetrachloroethane	50.0000	54.2449	108		1		40	80 - 130
Ethylbenzene	50.0000	52.6433	105		1		40	75 - 125
m,p-Xylene	100.0000	102.4786	102		2		40	75 - 130
o-Xylene	50.0000	50.2294	100		1		40	80 - 120
Xylene (Total)	150.0000	152.7080	102		1		40	81 - 121
Styrene	50.0000	50.8199	102		1		40	65 - 135

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab Sample ID: LCSD-79801 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Bromoform	50.0000	55.5604	111		3		40	70 - 130
Isopropylbenzene	50.0000	52.0497	104		3		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	46.7269	93		3		40	65 - 130
Bromobenzene	50.0000	46.5353	93		0		40	75 - 125
1,2,3-Trichloropropane	50.0000	52.1791	104		1		40	75 - 125
n-Propylbenzene	50.0000	47.7188	95		3		40	70 - 130
2-Chlorotoluene	50.0000	46.9560	94		2		40	75 - 125
1,3,5-Trimethylbenzene	50.0000	48.5038	97		4		40	75 - 130
4-Chlorotoluene	50.0000	47.2953	95		2		40	75 - 130
tert-Butylbenzene	50.0000	49.7358	99		4		40	70 - 130
1,2,4-Trimethylbenzene	50.0000	49.4808	99		3		40	75 - 130
sec-Butylbenzene	50.0000	48.0217	96		7		40	70 - 125
4-Isopropyltoluene	50.0000	49.2733	99		7		40	75 - 130
1,3-Dichlorobenzene	50.0000	47.2819	95		2		40	75 - 125
1,4-Dichlorobenzene	50.0000	45.7778	92		2		40	75 - 125
n-Butylbenzene	50.0000	51.0128	102		8		40	70 - 135
1,2-Dichlorobenzene	50.0000	47.0083	94		3		40	70 - 120
1,2-Dibromo-3-chloropropan	50.0000	53.2000	106		1		40	50 - 130
1,2,4-Trichlorobenzene	50.0000	47.4542	95		6		40	65 - 135
Hexachlorobutadiene	50.0000	46.2490	92		10		40	50 - 140
1,2,3-Trichlorobenzene	50.0000	47.3215	95		7		40	55 - 140
Naphthalene	50.0000	49.1051	98		5		40	55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 68 outside limits

Spike Recovery: 1 out of 68 outside limits

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
MB-79840

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab File ID: V1N2025.D Lab Sample ID: MB-79840

Instrument ID: V1

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 11/04/2014

Level: (TRACE or LOW/MED) LOW Time Analyzed: 15:06

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-79840	LCS-79840	V1N2023.D	14:03
02	SB-92-102714 3-4	N2023-01A	V1N2026.D	15:35
03	SB-91-102714 3-4	N2023-02A	V1N2027.D	16:03
04	SB-94-102714 1-2	N2023-03A	V1N2028.D	16:32
05	SB-90-102714 3-4	N2023-05A	V1N2030.D	17:28
06	SB-88-102714 4-5	N2023-06A	V1N2031.D	17:57
07	SB-93-102714 2-3	N2023-07A	V1N2032.D	18:25
08	SB-87-102714 7-8MS	N2023-04AMS	V1N2035.D	19:50
09	SB-87-102714 7-8MSD	N2023-04AMSD	V1N2036.D	20:18

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-79857

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab File ID: V1N2054.D Lab Sample ID: MB-79857

Instrument ID: V1

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 11/05/2014

Level: (TRACE or LOW/MED) LOW Time Analyzed: 10:00

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-79857	LCS-79857	V1N2052.D	8:55
02	DUP-01-102714	N2023-09A	V1N2056.D	11:08
03	SB-89-102714 5-6	N2023-08A	V1N2057.D	11:36
04	DUP-01-102714RX	N2023-09ARE	V1N2069.D	17:15
05	SB-87-102714 7-8	N2023-04A	V1N2070.D	17:43

COMMENTS:

som14.10.02.1616

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-79801

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

Lab File ID: V8D7915.D Lab Sample ID: MB-79801

Instrument ID: V10

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/03/2014

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:12

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-79801	LCS-79801	V8D7913.D	10:11
02	LCSD-79801	LCSD-79801	V8D7914.D	10:41
03	TRIPBLANK-102714	N2023-10A	V8D7917.D	12:41

COMMENTS:

som14.10.02.1616

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 11/04/2014 11/04/2014

EPA Sample No.(VSTD#####): VSTD0501Z Date Analyzed: 11/04/2014

Lab File ID (Standard): V1N2022.D Time Analyzed: 13:28

Instrument ID: V1 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	245988		4.368		199139		7.215		101714		9.786	
	UPPER LIMIT	491976		4.868		398278		7.715		203428		10.286	
	LOWER LIMIT	122994		3.868		99570		6.715		50857		9.286	
	EPA SAMPLE NO.												
01	LCS-79840	213275		4.360		172539		7.206		81915		9.787	
02	MB-79840	220525		4.358		177558		7.205		67527		9.785	
03	SB-92-102714 3-4	190801		4.363		165174		7.200		68895		9.781	
04	SB-91-102714 3-4	225048		4.373		179701		7.210		66322		9.790	
05	SB-94-102714 1-2	221277		4.369		176927		7.216		66280		9.786	
06	SB-90-102714 3-4	204782		4.364		164938		7.210		57756		9.791	
07	SB-88-102714 4-5	205046		4.369		163455		7.216		55859		9.786	
08	SB-93-102714 2-3	196907		4.373		159530		7.220		56309		9.790	
09	SB-87-102714 7-8MS	215060		4.359		166042		7.215		70968		9.786	
10	SB-87-102714 7-8MSD	219269		4.360		168372		7.206		74439		9.787	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 11/04/2014 11/04/2014

EPA Sample No.(VSTD#####): VSTD0501B Date Analyzed: 11/05/2014

Lab File ID (Standard): V1N2051.D Time Analyzed: 8:11

Instrument ID: V1 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	270819		4.363		218930		7.209		108650		9.78	
	UPPER LIMIT	541638		4.863		437860		7.709		217300		10.28	
	LOWER LIMIT	135410		3.863		109465		6.709		54325		9.28	
	EPA SAMPLE NO.												
01	LCS-79857	263737		4.356		211747		7.213		109775		9.783	
02	MB-79857	232556		4.365		186369		7.212		68961		9.782	
03	DUP-01-102714	203848		4.366		159932		7.212		51984	*	9.793	
04	SB-89-102714 5-6	214880		4.363		174938		7.220		61715		9.791	
05	DUP-01-102714RX	220063		4.369		175745		7.206		62677		9.787	
06	SB-87-102714 7-8	218175		4.366		171425		7.213		55683		9.784	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: N2023 Mod. Ref No.: SDG No.: SN2023

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/31/2014 10/31/2014

EPA Sample No.(VSTD#####): VSTD05010A Date Analyzed: 11/03/2014

Lab File ID (Standard): V8D7912.D Time Analyzed: 9:27

Instrument ID: V10 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	198754		5.236		233351		8.226		152916		10.728	
	UPPER LIMIT	397508		5.736		466702		8.726		305832		11.228	
	LOWER LIMIT	99377		4.736		116676		7.726		76458		10.228	
	EPA SAMPLE NO.												
01	LCS-79801	203832		5.236		244005		8.226		159860		10.725	
02	LCSD-79801	207379		5.239		248592		8.226		163678		10.725	
03	MB-79801	200805		5.239		235792		8.223		134237		10.728	
04	TRIPBLANK-102714	185919		5.243		229969		8.226		122200		10.728	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

Attachment

Soil Boring Logs

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TEST BORING LOG

BORING No.SB-87

PROJECT **HJB Properties**	LOCATION **Albany, NY**	SHEET **1** OF **1**	
CLIENT **Albany Community Development Agency**		PROJECT No. **04279009.0000**	
DRILLING CONTRACTOR **Precision Environmental Services Inc.**		MEAS. PT. ELEV.	
PURPOSE **Supplemental Soil Sampling**		GROUND ELEV.	
WELL MATERIAL		DATUM	
DRILLING METHOD(S) **Direct Push**	SAMPLE / CORE / CASING	DATE STARTED **10/27/14**	
DRILL RIG TYPE **Geoprobe**	TYPE	DATE FINISHED **10/27/14**	
GROUND WATER DEPTH **8.0'**	DIA. **"**	DRILLER **Michael Dudley**	
MEASURING POINT	WEIGHT **#**	PIRNIE STAFF **A.Goodrich**	
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
			0.3		FILL, little cobbles, little brick. Dry.			
2			0.2					
			0.2					
			0.3		Brown coarse to medium SAND and CLAY, little brick. Moist.	3.0		
4			0.2					
					No Recovery.	5.0		
6			0.2		Brown-gray CLAY, some brick, trace silt. Moist.	6.0		
			0.2		Brown-gray CLAY, some brick, trace silt. Wet.	7.0		Sample SB-87 (7'-8') submitted for VOCs analysis. MS/MSD collected.
8					No Recovery.	8.0		
10					Gray CLAY. Saturated.	10.0		
			0.2					
12						12.0		End of boring.

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TEST BORING LOG

BORING No.SB-88

PROJECT **HJB Properties**	LOCATION **Albany, NY**	SHEET **1** OF **1**	
CLIENT **Albany Community Development Agency**		PROJECT No. **04279009.0000**	
DRILLING CONTRACTOR **Precision Environmental Services Inc.**		MEAS. PT. ELEV.	
PURPOSE **Supplemental Soil Sampling**		GROUND ELEV.	
WELL MATERIAL		DATUM	
DRILLING METHOD(S) **Direct Push**	SAMPLE / CORE / CASING	DATE STARTED **10/27/14**	
DRILL RIG TYPE **Geoprobe**	TYPE	DATE FINISHED **10/27/14**	
GROUND WATER DEPTH **5.0'**	DIA. **"**	DRILLER **Michael Dudley**	
MEASURING POINT	WEIGHT **#**	PIRNIE STAFF **A.Goodrich**	
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
			0.9		Brown FILL and NATIVE SOIL, little cobbles, little brick. Dry.			
2			0.4 0.6		Brown CLAY, little silt. Moist.	2.0		
4			0.5 0.3		Brown CLAY, little silt. Wet.	4.0		Sample SB-88 (4'-5') submitted for VOCs analysis. DUP collected.
6			0.4 0.7					
8			0.4		No Recovery.	8.0		
10			0.1		Gray CLAY. Saturated.	10.5		
12			0.5			12.0		End of boring.

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TEST BORING LOG

BORING No.SB-89

PROJECT **HJB Properties**	LOCATION **Albany, NY**				SHEET **1** OF **1**
CLIENT **Albany Community Development Agency**					PROJECT No. **04279009.0000**
DRILLING CONTRACTOR **Precision Environmental Services Inc.**					MEAS. PT. ELEV.
PURPOSE **Supplemental Soil Sampling**					GROUND ELEV.
WELL MATERIAL					DATUM
DRILLING METHOD(S) **Direct Push**		SAMPLE	CORE	CASING	DATE STARTED **10/27/14**
DRILL RIG TYPE **Geoprobe**	TYPE				DATE FINISHED **10/27/14**
GROUND WATER DEPTH **6.0'**	DIA.	"			DRILLER **Michael Dudley**
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **A.Goodrich**
DATE OF MEASUREMENT	FALL	"			

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
2			0.2		Brown FILL and NATIVE SOIL, little cobbles, little gravel. Moist.			
			0.4					
4					No Recovery.	4.0		
			0.6		Brown fine to medium GRAVELLY SAND and CLAY. Wet.	5.0		Sample SB-89 (5'-6') submitted for VOCs analysis.
6			0.3		Gray CLAY. Wet.	6.0		
			0.5					
8					No Recovery.	8.0		
10								
			978.6		Gray CLAY. Saturated.	11.0		
12						12.0		End of boring.

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TEST BORING LOG

BORING No.SB-90

PROJECT	**HJB Properties**	LOCATION	**Albany, NY**	SHEET	**1** OF **1**
CLIENT	**Albany Community Development Agency**			PROJECT No.	**04279009.0000**
DRILLING CONTRACTOR	**Precision Environemental Services Inc.**			MEAS. PT. ELEV.	
PURPOSE	**Supplemental Soil Sampling**			GROUND ELEV.	
WELL MATERIAL				DATUM	
DRILLING METHOD(S)	**Direct Push**	SAMPLE	CORE / CASING	DATE STARTED	**10/27/14**
DRILL RIG TYPE	**Geoprobe**	TYPE		DATE FINISHED	**10/27/14**
GROUND WATER DEPTH	**5.0'**	DIA.	"	DRILLER	**Michael Dudley**
MEASURING POINT		WEIGHT	#	PIRNIE STAFF	**A.Goodrich**
DATE OF MEASUREMENT		FALL	"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2			0.5 0.4		FILL and NATIVE SOIL, little brick, little gravel. Dry.			
			0.3		Brown CLAY, little gravelly sand. Moist.	3.5		Sample SB-90 (3'-4') submitted for VOCs analysis.
4						4.0		▼
6			0.3 0.3 0.5		Gray SILTY CLAY. Wet.			
8					No Recovery.	8.0		
			3.1		Gray SANDY CLAY. Saturated.	9.0		
10			118 1.4		Gray CLAY. Saturated.	10.0		
12						12.0		End of boring.

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TEST BORING LOG

BORING No.SB-91

PROJECT **HJB Properties**	LOCATION **Albany, NY**	SHEET **1** OF **1**	
CLIENT **Albany Community Development Agency**		PROJECT No. **04279009.0000**	
DRILLING CONTRACTOR **Precision Environmental Services Inc.**		MEAS. PT. ELEV.	
PURPOSE **Supplemental Soil Sampling**		GROUND ELEV.	
WELL MATERIAL		DATUM	
DRILLING METHOD(S) **Direct Push**	SAMPLE / CORE / CASING	DATE STARTED **10/27/14**	
DRILL RIG TYPE **Geoprobe**	TYPE	DATE FINISHED **10/27/14**	
GROUND WATER DEPTH **5.0'**	DIA. **"**	DRILLER **Michael Dudley**	
MEASURING POINT	WEIGHT **#**	PIRNIE STAFF **A.Goodrich**	
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					No Recovery.			
2			0.5		Brown FILL and NATIVE SOIL. Moist.	2.5		Sample SB-91 (3'-4') submitted for VOCs analysis.
			0.4					
4			0.4		No Recovery.	4.0		▼
			0.4		Gray CLAY. Wet.	5.0		
6			0.7					
			1.1					
8					No Recovery.	8.0		
						9.0		
10								
12			0.5		Gray CLAY. Saturated.			
						12.0		End of boring.

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TEST BORING LOG

BORING No.SB-92

PROJECT **HJB Properties**	LOCATION **Albany, NY**				SHEET **1** OF **1**
CLIENT **Albany Community Development Agency**					PROJECT No. **04279009.0000**
DRILLING CONTRACTOR **Precision Environmental Services Inc.**					MEAS. PT. ELEV.
PURPOSE **Supplemental Soil Sampling**					GROUND ELEV.
WELL MATERIAL					DATUM
DRILLING METHOD(S) **Direct Push**		SAMPLE	CORE	CASING	DATE STARTED **10/27/14**
DRILL RIG TYPE **Geoprobe**	TYPE				DATE FINISHED **10/27/14**
GROUND WATER DEPTH **5.0'**	DIA.	"			DRILLER **Michael Dudley**
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **A.Goodrich**
DATE OF MEASUREMENT	FALL	"			

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					No Recovery.			
2			0.6		Brown FILL and NATIVE SOIL. Moist.	2.0		
			0.1		Brown FILL and NATIVE SOIL, some clay. Moist.	3.5		Sample SB-92 (3-4') submitted for VOCs analysis.
4					No Recovery.	4.0		▼
			0.0		Gray-brown CLAY. Wet.	5.0		
6			0.1					
			0.1					
8					No Recovery.	8.0		
			0.0		Gray-brown CLAY. Saturated.	9.0		
10			0.1					
			0.0					
12						12.0		End of boring.

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TEST BORING LOG

BORING No.SB-93

PROJECT **HJB Properties**	LOCATION **Albany, NY**	SHEET **1** OF **1**	
CLIENT **Albany Community Development Agency**		PROJECT No. **04279009.0000**	
DRILLING CONTRACTOR **Precision Environmental Services Inc.**		MEAS. PT. ELEV.	
PURPOSE **Supplemental Soil Sampling**		GROUND ELEV.	
WELL MATERIAL		DATUM	
DRILLING METHOD(S) **Direct Push**	SAMPLE / CORE / CASING	DATE STARTED **10/27/14**	
DRILL RIG TYPE **Geoprobe**	TYPE	DATE FINISHED **10/27/14**	
GROUND WATER DEPTH **4.0'**	DIA. **"**	DRILLER **Michael Dudley**	
MEASURING POINT	WEIGHT **#**	PIRNIE STAFF **A.Goodrich**	
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
			0.0		BrownFILL and NATIVE SOIL, little cobbles. Moist.			
2			0.0					
			0.0		Brown CLAY. Moist.	2.5		Sample SB-93 (2'-3') submitted for VOCs analysis.
			0.0		Brown CLAY. Wet.	3.0		▼
4	3.5		0.0					
					Brown-gray CLAY. Saturated.	5.0		
6								
8					Brown-gray CLAY. Saturated.	8.0		
			0.0					
10			0.0					
			0.0					
12			0.0					
						12.0		End of boring.

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TEST BORING LOG

BORING No.SB-94

PROJECT	**HJB Properties**	LOCATION	**Albany, NY**	SHEET	**1** OF **1**
CLIENT	**Albany Community Development Agency**			PROJECT No.	**04279009.0000**
DRILLING CONTRACTOR	**Precision Environmental Services Inc.**			MEAS. PT. ELEV.	
PURPOSE	**Supplemental Soil Sampling**			GROUND ELEV.	
WELL MATERIAL				DATUM	
DRILLING METHOD(S)	**Direct Push**	SAMPLE	CORE / CASING	DATE STARTED	**10/27/14**
DRILL RIG TYPE	**Geoprobe**	TYPE		DATE FINISHED	**10/27/14**
GROUND WATER DEPTH	**4.0'**	DIA.	"	DRILLER	**Michael Dudley**
MEASURING POINT		WEIGHT	#	PIRNIE STAFF	**A.Goodrich**
DATE OF MEASUREMENT		FALL	"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
			0.0		Brown FILL and NATIVE SOIL, trace cobbles. Moist.			Sample SB-94 (1'-2') submitted for VOCs analysis.
			0.0					
2			0.0		Brown CLAY. Moist to wet.	2.0		
			0.0		Brown CLAY. Wet.	3.0		▼
4			0.0		Brown-gray CLAY. Saturated.	4.0		
			0.0					
6			0.0					
			0.0					
8			0.0		Brown-gray CLAY. Saturated.	8.0		
			0.4					
10			0.0					
			0.0					
12						12.0		End of boring.

Attachment 3

Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

December 19, 2014

Stefan Bagnato
ARCADIS US, Inc.
855 Rt 146 Suite 204
Clifton Park, NY 12065

RE: **D**ata **U**sability **S**ummary **R**eport for the Henry Johnson Boulevard Site
Spectrum Analytical SDG N2023

Dear Mr. Bagnato:

Review has been completed for the data package generated by Spectrum Analytical that pertains to the analysis of soil samples collected October 27, 2014 at the Henry Johnson Boulevard site. Eight samples and a field duplicate were analyzed for a a full list of volatile analytes by USEPA method 8260C.

The data packages submitted contain full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the USEPA Region 2 validation SOP HW-33, the USEPA CLP National Functional Guidelines for Organic Data Review, the specific laboratory methodologies, and professional judgment, as affect the usability of the data. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method Blanks
* Matrix Spikes/Duplicates
* Field Duplicate Correlations
* Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Instrument Performance
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, sample reported results are usable either as reported or with minor qualification. However, all results for four of the samples are qualified as estimated, with a possible low bias. Data completeness, precision, sensitivity, representativeness, and comparability are acceptable.

Although the custody form requested only Target Compound List (TCL) volatiles, a more extensive list was reported and validated.

Copies of the client and laboratory identification are attached to this text. Also attached are client results tables, reflecting the qualifications recommended in this report.

Volatile Analyses by EPA8260C

The following samples exhibited an outlying low surrogate standard recovery, and results for those samples are therefore qualified as estimated, and may have a low bias. Although the laboratory case narrative says otherwise, the laboratory was required to reanalyze those samples to confirm whether there was a sample matrix effect, but did not: SB-93-102714 2-3, SB-89-102714 5-6, and SB-87-102714 7-8

The detected results for SB-92-102714 3-4 are qualified as estimated due to an elevated surrogate recovery; this sample should also have been qualified as estimated.

DUP-01-102714 produced outlying surrogate and/or internal standard responses on multiple analyses, and results of that sample are therefore qualified as estimated in value. The parent sample SB-88-102714 4-5 did not exhibit outlying recoveries (therefore a matrix effect is not suspect), and those results are usable without that qualification.

Calibration standards show acceptable responses, with the following exceptions, the results for which are qualified as estimated, with a possible low bias, in the indicated samples:

- dichlorodifluoromethane (35%D) in SB-92-102714 3-4, SB-91-102714 3-4, SB-94-102714 3-4, SB-90-102714 3-4, SB-88-102714 3-4, and SB-93-102714 3-4
- dichlorodifluoromethane, 1,2-dibromo-3-choroproane, and naphthalene (21%Dto 36%D) in SB-87-102714 3-4, SB-89-102714 3-4, and DUP-01-102714 3-4
- acetone and 2-butanone (low RRFs) in the trip blank

Sample matrix spikes were performed on SB-87-102714 7-8. All except sixteen of the reported analytes show low recoveries. An anomaly is observed, wherein the target analytes toluene and 1,2-dichloroethane produced recoveries between 47% and 57% in the spikes, whereas the surrogate deuterated analogs of these compounds (d8-toluene and d4-1,2-dichloroethane) show recoveries of 103% to 112%. The recoveries of the analogs should be the same, indicating a possible processing issue. Results for that parent sample are qualified as estimated, as noted above.

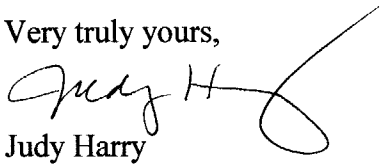
The field duplicate correlations of SB-88-1027(4-5) are within validation guidelines.

Holding time requirements were met, and instrument tunes meet fragmentation requirements. LCS recoveries are within required limits. Blanks show no contamination.

Some of the samples were processed at initial dilution due to concentrations of the target analytes. This results in elevated reporting limits for undetected analytes.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

LABORAORY AND CLIENT SAMPLE IDENTIFICATIONS

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Henry Johnson Blvd **SDG :** N2023

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
SB-92-102714 3-4	N2023-01	SW8260_LOW_S				
SB-91-102714 3-4	N2023-02	SW8260_LOW_S				
SB-94-102714 1-2	N2023-03	SW8260_LOW_S				
SB-87-102714 7-8	N2023-04	SW8260_LOW_S				
SB-90-102714 3-4	N2023-05	SW8260_LOW_S				
SB-88-102714 4-5	N2023-06	SW8260_LOW_S				
SB-93-102714 2-3	N2023-07	SW8260_LOW_S				
SB-89-102714 5-6	N2023-08	SW8260_LOW_S				
DUP-01-102714	N2023-09	SW8260_LOW_S				
TRIPBLANK-102714	N2023-10	SW8260_W				