

CHAIN OF CUSTODY RECORD

18051760

WV DEP - ELKVIEW

WES087

Gobby Adams

Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:

PO Box 286 • 225 Industrial Park Rd, Beaver, WV 25813

SHENANDOAH Service Center
1557 Commerce Rd, Ste 201
Winona, VA 24482
540-248-0181

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-717-1216

MORGANTOWN Service Center
16 Conference Drive
Westover, WV 26001
304-241-5901

REIC

Client: **WV DEP - HSER**

Contact Person: **Rusby Joins**

QUOTE #

Address:

Billing Address (if different):

Site ID & State: **Oak Hill** City: **WV**

Project ID: **56-18-013**

State:

Zip:

Sampler: **NM, JL, KU**

NO. 5

Phone: **304-5585936**

Email: **rusby.joins@dep.wv.gov**

520401

TURNAROUND TIME

NORMAL

5 DAY

3 DAY

2 DAY

1 DAY

RUSH TURNAROUND*

Send Results Via:

Email

Fax

All analytical requests are subject to REIC's Standard Terms and Conditions

ANALYSIS & METHOD REQUESTED

VOC 8240
SVOC 8240
Pesticide 14611-9081
PCB 8082
TOX 9020
Flammability
VOC 8240

ENTER PRESERVATIVE CODE

1) No Preservative
2) Acidified (pH < 2)
3) Acidified (pH < 2) + Ascorbic Acid
4) Acidified (pH < 2) + Ascorbic Acid + EDTA
5) Sodium Sulfate
6) Sodium Hydroxide
7) Acetic Acid
8) Sodium Borate
9) Sodium Citrate
10) Sodium Acetate
11) Sodium Sulfate
12) Hydrochloric Acid

COMMENTS: Samples #1, #2, #3 only

Provide PCB, TOX - if enough sample also SVOC

Send invoice to Tina C. Larue @wv.gov

CUSTODY SEALS: 119

Container Setup at Affected Site

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Site ID	Sample ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Container	Analysis & Method Requested	Preservative Code
LP18-073-001	1-4oz jar	5-11-18 93	Liquid	grab	X X X X X X	VOC 8240	1
LP18-073-002	1-4oz jar	5-11-18 945	Soil	grab	X X X X X X	SVOC 8240	2
#1 Soil Bottom Tank Middle	1-4oz jar	5-10-18 9410	Soil	grab	X X X X X X	Pesticide 14611-9081	3
#2 Soil Right Tank Wall	1-4oz jar	5-10-18 9411	Soil	grab	X X X X X X	PCB 8082	4
#3 Soil Left Tank Front	1-4oz jar	5-10-18 9412	Soil	grab	X X X X X X	TOX 9020	5



REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

782 North Lee Highway
Lexington, VA 24450
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16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Friday, May 25, 2018

Mr. Rusty Joins
WV DEP - ELKVIEW
4994 ELK RIVER RD SOUTH
ELKVIEW, WV 25071

TEL: (304) 558-5938

FAX: (304) 558-1143

RE: 5G-18-073

Work Order #: 18051760

Dear Mr. Rusty Joins:

This is an amended or revised report for the subject Work Order. This report contains supplemental information or results revisions and should be used in place of any prior report for the Work Order. The specific amendments are listed in the narrative of this report.

Sincerely,

Bobby Adams
Project Manager
(304) 250-6218

Client: WV DEP - ELKVIEW**Project:** 5G-18-073

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

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Amended report issued with a narrative note concerning Methylene chloride detection in sample 18051760-02A, an update to surrogate recovery for method 8151 for sample 1851760-01A, and inclusion of subcontracted analysis.

DEFINITIONS:

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:

X: Reported value exceeds required MCL

B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL

E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.

H: Holding time for preparation or analysis has been exceeded.

J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.

S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839

Lexington, VA: VADCLS(VELAP) 460150

Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-01A
Client Sample ID: LP18-073-001

Collection Date: 5/11/2018 9:30:00 AM
Date Received: 5/11/2018
Matrix: Liquid
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
PESTICIDES		Method: SW8081B					Analyst: NC	
Endrin ketone	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	VA
Aldrin	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
alpha-BHC	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
beta-BHC	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
delta-BHC	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
gamma-BHC	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Chlordane	ND	0.0251	0.0503	NA		mg/L	5/18/2018 1:01 PM	PAVA
4,4'-DDD	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
4,4'-DDE	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
4,4'-DDT	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Dieldrin	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Endosulfan I	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Endosulfan II	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Endosulfan sulfate	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Endrin	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Endrin aldehyde	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Heptachlor	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Heptachlor epoxide	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Methoxychlor	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Toxaphene	ND	0.0251	0.0503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Surr: Tetrachloro-m-xylene	1,020	NA	30.28-149	NA	S	%Rec	5/18/2018 1:01 PM	

Notes:

Surrogate recovery was outside laboratory control limits due to required sample dilution and does not reflect extraction efficiency.

The reporting limit is elevated as a result of dilutions required due to matrix interference.

PCBS		Method: SW8082A					Analyst: NC	
Aroclor 1016	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Aroclor 1221	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Aroclor 1232	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Aroclor 1242	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Aroclor 1248	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Aroclor 1254	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Aroclor 1260	ND	0.00251	0.00503	NA		mg/L	5/18/2018 1:01 PM	PAVA
Surr: Tetrachloro-m-xylene	490	NA	41.3-129.	NA	S	%Rec	5/18/2018 1:01 PM	

Notes:

Surrogate recovery was outside laboratory control limits due to required sample dilution and does not reflect extraction efficiency.

The reporting limit is elevated as a result of dilutions required due to matrix interference.

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-01A
Client Sample ID: LP18-073-001

Collection Date: 5/11/2018 9:30:00 AM
Date Received: 5/11/2018
Matrix: Liquid
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
CHLORINATED HERBICIDES			Method: SW8151A			Analyst: JH		
2,4,5-TP (Silvex)	ND	0.00596	0.0119	NA		mg/L	5/17/2018 4:19 PM	PA/VA
2,4-D	ND	0.0119	0.0238	NA		mg/L	5/17/2018 4:19 PM	PA/VA
Surr: DCAA	4.93	NA	1-183	NA		%Rec	5/16/2018 9:40 PM	
SEMIVOLATILE ORGANIC COMPOUNDS			Method: SW8270D			Analyst: NC		
Acenaphthene	0.0153	0.0109	0.0544	NA	J	mg/L	5/15/2018 6:18 PM	PA/VA
Acenaphthylene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Anthracene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Benzidine	ND	0.0272	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Benzo(a)anthracene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Benzo(a)pyrene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Benzo(b)fluoranthene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Benzo(g,h,i)perylene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Benzo(k)fluoranthene	ND	0.0163	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Bis(2-chloroethoxy)methane	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Bis(2-chloroethyl)ether	0.0945	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Bis(2-ethylhexyl)phthalate	0.440	0.0544	0.109	NA		mg/L	5/17/2018 5:29 PM	PA/VA
4-Bromophenyl phenyl ether	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Butyl benzyl phthalate	ND	0.0272	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
4-Chloro-3-methylphenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
2-Chloronaphthalene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
2-Chlorophenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
4-Chlorophenyl phenyl ether	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Chrysene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
o-Cresol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
m,p-Cresol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Dibenzo(a,h)anthracene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Di-n-butyl phthalate	ND	0.0272	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
1,2-Dichlorobenzene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
1,3-Dichlorobenzene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
1,4-Dichlorobenzene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
3,3'-Dichlorobenzidine	ND	0.0272	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
2,4-Dichlorophenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
Diethyl phthalate	0.0142	0.0109	0.0544	NA	J	mg/L	5/15/2018 6:18 PM	PA/VA
Dimethyl phthalate	ND	0.0272	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA
2,4-Dimethylphenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-01A
Client Sample ID: LP18-073-001

Collection Date: 5/11/2018 9:30:00 AM
Date Received: 5/11/2018
Matrix: Liquid
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
4,6-Dinitro-2-methylphenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
2,4-Dinitrophenol	0.0362	0.0109	0.0544	NA	J	mg/L	5/15/2018 6:18 PM	PAVA
2,4-Dinitrotoluene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
2,6-Dinitrotoluene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Di-n-octyl phthalate	0.0352	0.0272	0.0544	NA	J	mg/L	5/15/2018 6:18 PM	PAVA
1,2-Diphenylhydrazine	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Fluoranthene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Fluorene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Hexachlorobenzene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Hexachlorobutadiene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Hexachlorocyclopentadiene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Hexachloroethane	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Indeno(1,2,3-cd)pyrene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Isophorone	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Naphthalene	0.304	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Nitrobenzene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
2-Nitrophenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
4-Nitrophenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
N-Nitrosodimethylamine	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
N-Nitrosodiphenylamine	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
N-Nitrosodi-n-propylamine	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Pentachlorophenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Phenanthrene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Phenol	ND	0.0272	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Pyrene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
1,2,4-Trichlorobenzene	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
2,4,5-Trichlorophenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
2,4,6-Trichlorophenol	ND	0.0109	0.0544	NA		mg/L	5/15/2018 6:18 PM	PAVA
Surr: 2-Fluorophenol	48.5	NA	17.6-120	NA		%Rec	5/15/2018 6:18 PM	
Surr: Phenol-d5	37.7	NA	11.4-120	NA		%Rec	5/15/2018 6:18 PM	
Surr: 2,4,6-Tribromophenol	115	NA	18-129	NA		%Rec	5/15/2018 6:18 PM	
Surr: Nitrobenzene-d5	430	NA	21.5-122	NA	S	%Rec	5/15/2018 6:18 PM	
Surr: 2-Fluorobiphenyl	107	NA	23.7-127	NA		%Rec	5/15/2018 6:18 PM	
Surr: 4-Terphenyl-d14	84.2	NA	39.9-124	NA		%Rec	5/15/2018 6:18 PM	

VOLATILE ORGANIC COMPOUNDS-8260

Method: SW8260B

Analyst: DTC

Acetone	229	5.00	10.0	NA		µg/L	5/17/2018 8:59 AM	PAVA
Acrolein	ND	5.00	10.0	NA		µg/L	5/17/2018 8:59 AM	PAVA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client:	WV DEP - ELKVIEW	Collection Date:	5/11/2018 9:30:00 AM
Project:	5G-18-073	Date Received:	5/11/2018
Lab ID:	18051760-01A	Matrix:	Liquid
Client Sample ID:	LP18-073-001	Site ID:	OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Acrylonitrile	ND	5.00	10.0	NA		µg/L	5/17/2018 8:59 AM	PAVA
Benzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Bromobenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Bromochloromethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Bromoform	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Bromomethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
MEK	ND	5.00	10.0	NA		µg/L	5/17/2018 8:59 AM	PAVA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
sec-Butylbenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Carbon disulfide	ND	2.50	5.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Chlorobenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Chloroethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Chloroform	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Chloromethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
DBCP	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Dibromomethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,2-Dichloroethane	19.0	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,3-Dichloropropane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
2,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,1-Dichloropropene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-01A
Client Sample ID: LP18-073-001

Collection Date: 5/11/2018 9:30:00 AM
Date Received: 5/11/2018
Matrix: Liquid
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Ethylbenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
2-Hexanone	ND	5.00	10.0	NA		µg/L	5/17/2018 8:59 AM	PAVA
Iodomethane	ND	5.00	10.0	NA		µg/L	5/17/2018 8:59 AM	PAVA
Isopropylbenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
p-Isopropyltoluene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Methylene chloride	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L	5/17/2018 8:59 AM	PAVA
MTBE	ND	2.50	5.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
n-Propylbenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Styrene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Toluene	12.0	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Trichloroethene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
1,3,5-Trimethylbenzene	17.2	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Vinyl acetate	ND	5.00	10.0	NA		µg/L	5/17/2018 8:59 AM	PAVA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
o-Xylene	22.8	0.500	1.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
m,p-Xylene	48.1	1.00	2.00	NA		µg/L	5/17/2018 8:59 AM	PAVA
Surr: 1,2-Dichloroethane-d4	103	NA	75.9-132	NA		%Rec	5/17/2018 8:59 AM	
Surr: 4-Bromofluorobenzene	85.2	NA	73.6-132	NA		%Rec	5/17/2018 8:59 AM	
Surr: Dibromofluoromethane	82.2	NA	80.1-127	NA		%Rec	5/17/2018 8:59 AM	
Surr: Toluene-d8	89.5	NA	72.4-119	NA		%Rec	5/17/2018 8:59 AM	

FLASHPOINT

Method: SW1010A

Analyst: EA

Ignitability	No Flash to 95	NA	NA	NA	°C	5/14/2018 3:11 PM	PAVA
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REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-02A
Client Sample ID: LP18-073-002

Collection Date: 5/11/2018 9:45:00 AM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
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PERCENT MOISTURE

Method: SM2540 B-1997

Analyst: DF

Percent Moisture	22	NA	1.0	NA		wt%	5/15/2018 6:25 AM	
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PESTICIDES

Method: SW8081B

Analyst: JH

Aldrin	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
alpha-BHC	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
beta-BHC	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
delta-BHC	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
gamma-BHC	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Chlordane	ND	0.0834	0.167	NA		mg/Kg	5/18/2018 1:01 AM	
4,4'-DDD	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
4,4'-DDE	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
4,4'-DDT	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Dieldrin	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Endosulfan I	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Endosulfan II	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Endosulfan sulfate	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Endrin	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Endrin aldehyde	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Endrin ketone	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Heptachlor	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Heptachlor epoxide	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Methoxychlor	ND	0.00834	0.0167	NA		mg/Kg	5/18/2018 1:01 AM	
Toxaphene	ND	0.0834	0.167	NA		mg/Kg	5/18/2018 1:01 AM	
Surr: Tetrachloro-m-xylene	83.3	NA	44.3-139	NA		%Rec	5/18/2018 1:01 AM	

Notes:

The ending CCVs for Pesticides, and Toxaphene exceed laboratory control limits, indicating a high bias. Since the analytes were not detected in the sample, the reported results are not affected by this bias.

PCBS

Method: SW8082A

Analyst: JH

Aroclor 1016	ND	0.00831	0.0166	NA		mg/Kg	5/15/2018 1:05 AM	VA
Aroclor 1221	ND	0.00831	0.0166	NA		mg/Kg	5/15/2018 1:05 AM	VA
Aroclor 1232	ND	0.00831	0.0166	NA		mg/Kg	5/15/2018 1:05 AM	VA
Aroclor 1242	ND	0.00831	0.0166	NA		mg/Kg	5/15/2018 1:05 AM	VA
Aroclor 1248	ND	0.00831	0.0166	NA		mg/Kg	5/15/2018 1:05 AM	VA
Aroclor 1254	ND	0.00831	0.0166	NA		mg/Kg	5/15/2018 1:05 AM	VA
Aroclor 1260	ND	0.00831	0.0166	NA		mg/Kg	5/15/2018 1:05 AM	VA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client:	WV DEP - ELKVIEW	Collection Date:	5/11/2018 9:45:00 AM
Project:	5G-18-073	Date Received:	5/11/2018
Lab ID:	18051760-02A	Matrix:	Soil
Client Sample ID:	LP18-073-002	Site ID:	OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Surr: Tetrachloro-m-xylene	75.8	NA	25.6-130	NA		%Rec	5/15/2018 1:05 AM	

Notes:

The CCV for Aroclor 1260 and 1016 exceeds laboratory control limits, indicating a high bias. Since the analytes were not detected in the samples, the reported results are not affected by this bias.

CHLORINATED HERBICIDES

Method: SW8151A

Analyst: JH

2,4,5-TP (Silvex)	ND	0.010	0.020	NA		mg/Kg	5/16/2018 11:48 PM
2,4-D	ND	0.020	0.040	NA		mg/Kg	5/16/2018 11:48 PM
Surr: DCAA	238	NA	9.29-166	NA	S	%Rec	5/16/2018 11:48 PM

Notes:

The ending CCV exceeds laboratory control limits, indicating a high bias. Since the analytes were not detected in the sample, the reported results are not affected by this bias.

The surrogate recovery is outside laboratory control limits due to matrix interference.

SEMIVOLATILE ORGANIC COMPOUNDS

Method: SW8270D

Analyst: NC

Acenaphthene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
Acenaphthylene	0.083	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PAVA
Anthracene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
Benzidine	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
Benzo(a)anthracene	0.165	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PAVA
Benzo(a)pyrene	0.215	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PAVA
Benzo(b)fluoranthene	0.394	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
Benzo(g,h,i)perylene	0.184	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PAVA
Benzo(k)fluoranthene	0.101	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PAVA
Bis(2-chloroethoxy)methane	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
Bis(2-chloroethyl)ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
Bis(2-chloroisopropyl)ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
Bis(2-ethylhexyl)phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
4-Bromophenyl phenyl ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
Butyl benzyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
4-Chloro-3-methylphenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
2-Chloronaphthalene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
2-Chlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
4-Chlorophenyl phenyl ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
Chrysene	0.207	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PAVA
o-Cresol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA
m,p-Cresol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PAVA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-02A
Client Sample ID: LP18-073-002

Collection Date: 5/11/2018 9:45:00 AM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Dibenzo(a,h)anthracene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Di-n-butyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
1,2-Dichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
1,3-Dichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
1,4-Dichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
3,3'-Dichlorobenzidine	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
2,4-Dichlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Diethyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Dimethyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
2,4-Dimethylphenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
2,4-Dinitrophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
2,4-Dinitrotoluene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
2,6-Dinitrotoluene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Di-n-octyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
1,2-Diphenylhydrazine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Fluoranthene	0.143	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PA/VA
Fluorene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Hexachlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Hexachlorobutadiene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Hexachlorocyclopentadiene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Hexachloroethane	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Indeno(1,2,3-cd)pyrene	0.210	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PA/VA
Isophorone	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Naphthalene	0.086	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PA/VA
Nitrobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
2-Nitrophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
4-Nitrophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
N-Nitrosodimethylamine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
N-Nitrosodiphenylamine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
N-Nitrosodi-n-propylamine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Pentachlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Phenanthrene	0.073	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PA/VA
Phenol	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
Pyrene	0.152	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:32 PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
2,4,5-Trichlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA
2,4,6-Trichlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:32 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-02A
Client Sample ID: LP18-073-002

Collection Date: 5/11/2018 9:45:00 AM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Surr: 2-Fluorophenol	72.9	NA	39.2-110	NA		%Rec	5/15/2018 4:32 PM	
Surr: Phenol-d5	77.3	NA	45.4-110	NA		%Rec	5/15/2018 4:32 PM	
Surr: 2,4,6-Tribromophenol	88.8	NA	37.2-113	NA		%Rec	5/15/2018 4:32 PM	
Surr: Nitrobenzene-d5	74.0	NA	23.3-114	NA		%Rec	5/15/2018 4:32 PM	PAVA
Surr: 2-Fluorobiphenyl	86.1	NA	24.2-119	NA		%Rec	5/15/2018 4:32 PM	
Surr: 4-Terphenyl-d14	88.1	NA	37.5-127	NA		%Rec	5/15/2018 4:32 PM	

VOLATILE ORGANIC COMPOUNDS-8260

Method: SW8260B

Analyst: DTC

Acetone	264	20.0	40.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Acrolein	ND	20.0	40.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Acrylonitrile	ND	20.0	40.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Benzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Bromobenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Bromochloromethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Bromodichloromethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Bromoform	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Bromomethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
2-Butanone	ND	20.0	40.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
n-Butylbenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
sec-Butylbenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
tert-Butylbenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Carbon disulfide	ND	10.0	20.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Carbon tetrachloride	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Chlorobenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Chloroethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Chloroform	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Chloromethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
2-Chlorotoluene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
4-Chlorotoluene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Dibromochloromethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
DBCP	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,2-Dibromoethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Dibromomethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,2-Dichlorobenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,3-Dichlorobenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,4-Dichlorobenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Dichlorodifluoromethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,1-Dichloroethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-02A
Client Sample ID: LP18-073-002

Collection Date: 5/11/2018 9:45:00 AM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
1,2-Dichloroethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,1-Dichloroethene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
cis-1,2-Dichloroethene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
trans-1,2-Dichloroethene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,2-Dichloropropane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,3-Dichloropropane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
2,2-Dichloropropane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,1-Dichloropropene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
cis-1,3-Dichloropropene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
trans-1,3-Dichloropropene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Ethylbenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Hexachlorobutadiene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
2-Hexanone	ND	20.0	40.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Iodomethane	ND	20.0	40.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Isopropylbenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
p-Isopropyltoluene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Methylene chloride	31.2	2.00	4.00	NA	*	µg/Kg	5/21/2018 11:59 AM	PAVA
4-Methyl-2-pentanone	ND	20.0	40.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
MTBE	ND	10.0	20.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
n-Propylbenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Styrene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,1,2,2-Tetrachloroethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Tetrachloroethene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Toluene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,2,3-Trichlorobenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,2,4-Trichlorobenzene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,1,1-Trichloroethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,1,2-Trichloroethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Trichloroethene	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Trichlorofluoromethane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,2,3-Trichloropropane	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,2,4-Trimethylbenzene	7.69	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
1,3,5-Trimethylbenzene	16.9	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Vinyl acetate	ND	20.0	40.0	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
Vinyl chloride	ND	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	PAVA
o-Xylene	20.1	2.00	4.00	NA		µg/Kg	5/18/2018 5:08 PM	
m,p-Xylene	17.8	4.00	8.00	NA		µg/Kg	5/18/2018 5:08 PM	

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client:	WV DEP - ELKVIEW	Collection Date:	5/11/2018 9:45:00 AM
Project:	5G-18-073	Date Received:	5/11/2018
Lab ID:	18051760-02A	Matrix:	Soil
Client Sample ID:	LP18-073-002	Site ID:	OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Surr: 1,2-Dichloroethane-d4	103	NA	65-124	NA		%Rec	5/18/2018 5:08 PM	
Surr: 4-Bromofluorobenzene	111	NA	75.8-128	NA		%Rec	5/18/2018 5:08 PM	
Surr: Dibromofluoromethane	99.4	NA	74.1-126	NA		%Rec	5/18/2018 5:08 PM	
Surr: Toluene-d8	96.7	NA	77.3-130	NA		%Rec	5/18/2018 5:08 PM	

Notes:

* The container used for VOC analysis was previously opened in an environment where Methylene chloride is used as an extraction solvent for the Pesticide, PCB, and SVOC analyses and its presence can most likely be attributed to this exposure.

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-03A
Client Sample ID: #1 SOIL BOTTOM TANK MIDDLE

Collection Date: 5/10/2018 2:10:00 PM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
PERCENT MOISTURE		Method: SM2540 B-1997				Analyst: DF		
Percent Moisture	23	NA	1.0	NA		wt%	5/15/2018 6:25 AM	
PCBS		Method: SW8082A				Analyst: JH		
Aroclor 1016	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:20 AM	VA
Aroclor 1221	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:20 AM	VA
Aroclor 1232	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:20 AM	VA
Aroclor 1242	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:20 AM	VA
Aroclor 1248	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:20 AM	VA
Aroclor 1254	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:20 AM	VA
Aroclor 1260	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:20 AM	VA
Surr: Tetrachloro-m-xylene	78.3	NA	25.6-130	NA		%Rec	5/15/2018 1:20 AM	

Notes:

The CCV for Aroclors 1260 and 1016 exceeds laboratory control limits, indicating a high bias. Since the analytes were not detected in the samples, the reported results are not affected by this bias.

SEMIVOLATILE ORGANIC COMPOUNDS		Method: SW8270D				Analyst: NC		
Acenaphthene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Acenaphthylene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Anthracene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Benzidine	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Benzo(a)anthracene	0.081	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PA/VA
Benzo(a)pyrene	0.142	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PA/VA
Benzo(b)fluoranthene	0.242	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PA/VA
Benzo(g,h,i)perylene	0.134	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PA/VA
Benzo(k)fluoranthene	0.088	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PA/VA
Bis(2-chloroethoxy)methane	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Bis(2-chloroethyl)ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
4-Bromophenyl phenyl ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Butyl benzyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
4-Chloro-3-methylphenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
2-Chloronaphthalene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
2-Chlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
4-Chlorophenyl phenyl ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Chrysene	0.120	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PA/VA
o-Cresol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-03A
Client Sample ID: #1 SOIL BOTTOM TANK MIDDLE

Collection Date: 5/10/2018 2:10:00 PM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
m,p-Cresol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Dibenzo(a,h)anthracene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Di-n-butyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
1,2-Dichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
1,3-Dichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
1,4-Dichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
3,3'-Dichlorobenzidine	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
2,4-Dichlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Diethyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Dimethyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
2,4-Dimethylphenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
4,6-Dinitro-2-methylphenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
2,4-Dinitrophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
2,4-Dinitrotoluene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
2,6-Dinitrotoluene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Di-n-octyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
1,2-Diphenylhydrazine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Fluoranthene	0.076	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PAVA
Fluorene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Hexachlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Hexachlorobutadiene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Hexachlorocyclopentadiene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Hexachloroethane	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Indeno(1,2,3-cd)pyrene	0.155	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PAVA
Isophorone	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Naphthalene	0.136	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PAVA
Nitrobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
2-Nitrophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
4-Nitrophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
N-Nitrosodimethylamine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
N-Nitrosodiphenylamine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
N-Nitrosodi-n-propylamine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Pentachlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Phenanthrene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Phenol	ND	0.167	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
Pyrene	0.076	0.067	0.333	NA	J	mg/Kg	5/15/2018 4:54 PM	PAVA
1,2,4-Trichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA
2,4,5-Trichlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PAVA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-03A
Client Sample ID: #1 SOIL BOTTOM TANK MIDDLE

Collection Date: 5/10/2018 2:10:00 PM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
2,4,6-Trichlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 4:54 PM	PA/VA
Surr: 2-Fluorophenol	72.4	NA	39.2-110	NA		%Rec	5/15/2018 4:54 PM	
Surr: Phenol-d5	78.3	NA	45.4-110	NA		%Rec	5/15/2018 4:54 PM	
Surr: 2,4,6-Tribromophenol	86.0	NA	37.2-113	NA		%Rec	5/15/2018 4:54 PM	
Surr: Nitrobenzene-d5	76.3	NA	23.3-114	NA		%Rec	5/15/2018 4:54 PM	PA/VA
Surr: 2-Fluorobiphenyl	88.1	NA	24.2-119	NA		%Rec	5/15/2018 4:54 PM	
Surr: 4-Terphenyl-d14	85.8	NA	37.5-127	NA		%Rec	5/15/2018 4:54 PM	

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client:	WV DEP - ELKVIEW	Collection Date:	5/10/2018 2:11:00 PM
Project:	5G-18-073	Date Received:	5/11/2018
Lab ID:	18051760-04A	Matrix:	Soil
Client Sample ID:	#2 SOIL RIGHT TANK WALL	Site ID:	OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
PERCENT MOISTURE		Method: SM2540 B-1997				Analyst: DF		
Percent Moisture	25	NA	1.0	NA		wt%	5/15/2018 6:25 AM	
PCBS		Method: SW8082A				Analyst: JH		
Aroclor 1016	ND	0.00833	0.0167	NA		mg/Kg	5/15/2018 1:34 AM	VA
Aroclor 1221	ND	0.00833	0.0167	NA		mg/Kg	5/15/2018 1:34 AM	VA
Aroclor 1232	ND	0.00833	0.0167	NA		mg/Kg	5/15/2018 1:34 AM	VA
Aroclor 1242	ND	0.00833	0.0167	NA		mg/Kg	5/15/2018 1:34 AM	VA
Aroclor 1248	ND	0.00833	0.0167	NA		mg/Kg	5/15/2018 1:34 AM	VA
Aroclor 1254	ND	0.00833	0.0167	NA		mg/Kg	5/15/2018 1:34 AM	VA
Aroclor 1260	ND	0.00833	0.0167	NA		mg/Kg	5/15/2018 1:34 AM	VA
Surr: Tetrachloro-m-xylene	42.9	NA	25.6-130	NA		%Rec	5/15/2018 1:34 AM	

Notes:

The CCV for Aroclors 1260 and 1016 exceeds laboratory control limits, indicating a high bias. Since the analytes were not detected in the samples, the reported results are not affected by this bias.

SEMIVOLATILE ORGANIC COMPOUNDS		Method: SW8270D				Analyst: NC		
Acenaphthene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Acenaphthylene	0.083	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PA/VA
Anthracene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Benzidine	ND	0.167	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Benzo(a)anthracene	0.188	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PA/VA
Benzo(a)pyrene	0.207	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PA/VA
Benzo(b)fluoranthene	0.377	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Benzo(g,h,i)perylene	0.171	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PA/VA
Benzo(k)fluoranthene	0.114	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PA/VA
Bis(2-chloroethoxy)methane	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Bis(2-chloroethyl)ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
4-Bromophenyl phenyl ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Butyl benzyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
4-Chloro-3-methylphenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
2-Chloronaphthalene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
2-Chlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
4-Chlorophenyl phenyl ether	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Chrysene	0.229	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PA/VA
o-Cresol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-04A
Client Sample ID: #2 SOIL RIGHT TANK WALL

Collection Date: 5/10/2018 2:11:00 PM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
m,p-Cresol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Dibenzo(a,h)anthracene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Di-n-butyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
1,2-Dichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
1,3-Dichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
1,4-Dichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
3,3'-Dichlorobenzidine	ND	0.167	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
2,4-Dichlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Diethyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Dimethyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
2,4-Dimethylphenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
4,6-Dinitro-2-methylphenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
2,4-Dinitrophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
2,4-Dinitrotoluene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
2,6-Dinitrotoluene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Di-n-octyl phthalate	ND	0.167	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
1,2-Diphenylhydrazine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Fluoranthene	0.216	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PAVA
Fluorene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Hexachlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Hexachlorobutadiene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Hexachlorocyclopentadiene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Hexachloroethane	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Indeno(1,2,3-cd)pyrene	0.193	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PAVA
Isophorone	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Naphthalene	0.130	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PAVA
Nitrobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
2-Nitrophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
4-Nitrophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
N-Nitrosodimethylamine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
N-Nitrosodiphenylamine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
N-Nitrosodi-n-propylamine	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Pentachlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Phenanthrene	0.081	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PAVA
Phenol	ND	0.167	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
Pyrene	0.209	0.067	0.333	NA	J	mg/Kg	5/15/2018 5:17 PM	PAVA
1,2,4-Trichlorobenzene	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA
2,4,5-Trichlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PAVA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-04A
Client Sample ID: #2 SOIL RIGHT TANK WALL

Collection Date: 5/10/2018 2:11:00 PM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
2,4,6-Trichlorophenol	ND	0.067	0.333	NA		mg/Kg	5/15/2018 5:17 PM	PA/VA
Surr: 2-Fluorophenol	68.0	NA	39.2-110	NA		%Rec	5/15/2018 5:17 PM	
Surr: Phenol-d5	73.7	NA	45.4-110	NA		%Rec	5/15/2018 5:17 PM	
Surr: 2,4,6-Tribromophenol	83.3	NA	37.2-113	NA		%Rec	5/15/2018 5:17 PM	
Surr: Nitrobenzene-d5	76.6	NA	23.3-114	NA		%Rec	5/15/2018 5:17 PM	PA/VA
Surr: 2-Fluorobiphenyl	84.3	NA	24.2-119	NA		%Rec	5/15/2018 5:17 PM	
Surr: 4-Terphenyl-d14	81.7	NA	37.5-127	NA		%Rec	5/15/2018 5:17 PM	

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-05A
Client Sample ID: #3 SOIL LEFT TANK FRONT

Collection Date: 5/10/2018 2:12:00 PM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
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PERCENT MOISTURE

Method: SM2540 B-1997

Analyst: DF

Percent Moisture	18	NA	1.0	NA		wt%	5/15/2018 6:25 AM	
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PCBS

Method: SW8082A

Analyst: JH

Aroclor 1016	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:48 AM	VA
Aroclor 1221	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:48 AM	VA
Aroclor 1232	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:48 AM	VA
Aroclor 1242	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:48 AM	VA
Aroclor 1248	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:48 AM	VA
Aroclor 1254	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:48 AM	VA
Aroclor 1260	ND	0.00834	0.0167	NA		mg/Kg	5/15/2018 1:48 AM	VA
Surr: Tetrachloro-m-xylene	76.8	NA	25.6-130	NA		%Rec	5/15/2018 1:48 AM	

Notes:

The CCV for Aroclors 1260 and 1016 exceeds laboratory control limits, indicating a high bias. Since the analytes were not detected in the samples, the reported results are not affected by this bias.

SEMIVOLATILE ORGANIC COMPOUNDS

Method: SW8270D

Analyst: NC

Acenaphthene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Acenaphthylene	0.097	0.067	0.332	NA	J	mg/Kg	5/15/2018 5:39 PM	PA/VA
Anthracene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Benzidine	ND	0.167	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Benzo(a)anthracene	0.277	0.067	0.332	NA	J	mg/Kg	5/15/2018 5:39 PM	PA/VA
Benzo(a)pyrene	0.361	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Benzo(b)fluoranthene	0.610	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Benzo(g,h,i)perylene	0.476	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Benzo(k)fluoranthene	0.182	0.067	0.332	NA	J	mg/Kg	5/15/2018 5:39 PM	PA/VA
Bis(2-chloroethoxy)methane	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Bis(2-chloroethyl)ether	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	0.167	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
4-Bromophenyl phenyl ether	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Butyl benzyl phthalate	ND	0.167	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
4-Chloro-3-methylphenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
2-Chloronaphthalene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
2-Chlorophenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
4-Chlorophenyl phenyl ether	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Chrysene	0.305	0.067	0.332	NA	J	mg/Kg	5/15/2018 5:39 PM	PA/VA
o-Cresol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-05A
Client Sample ID: #3 SOIL LEFT TANK FRONT

Collection Date: 5/10/2018 2:12:00 PM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
m,p-Cresol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Dibenzo(a,h)anthracene	0.101	0.067	0.332	NA	J	mg/Kg	5/15/2018 5:39 PM	PAVA
Di-n-butyl phthalate	ND	0.167	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
1,2-Dichlorobenzene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
1,3-Dichlorobenzene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
1,4-Dichlorobenzene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
3,3'-Dichlorobenzidine	ND	0.167	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
2,4-Dichlorophenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Diethyl phthalate	ND	0.167	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Dimethyl phthalate	ND	0.167	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
2,4-Dimethylphenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
4,6-Dinitro-2-methylphenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
2,4-Dinitrophenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
2,4-Dinitrotoluene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
2,6-Dinitrotoluene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Di-n-octyl phthalate	ND	0.167	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
1,2-Diphenylhydrazine	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Fluoranthene	0.424	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Fluorene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Hexachlorobenzene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Hexachlorobutadiene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Hexachlorocyclopentadiene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Hexachloroethane	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Indeno(1,2,3-cd)pyrene	0.523	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Isophorone	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Naphthalene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Nitrobenzene	1.27	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
2-Nitrophenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
4-Nitrophenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
N-Nitrosodimethylamine	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
N-Nitrosodiphenylamine	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
N-Nitrosodi-n-propylamine	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Pentachlorophenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Phenanthrene	0.140	0.067	0.332	NA	J	mg/Kg	5/15/2018 5:39 PM	PAVA
Phenol	ND	0.167	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
Pyrene	0.376	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
1,2,4-Trichlorobenzene	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA
2,4,5-Trichlorophenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PAVA

REI Consultants, Inc. - Analytical Report

WO#: 18051760

Date Reported: 5/25/2018

Revision v3

Client: WV DEP - ELKVIEW
Project: 5G-18-073
Lab ID: 18051760-05A
Client Sample ID: #3 SOIL LEFT TANK FRONT

Collection Date: 5/10/2018 2:12:00 PM
Date Received: 5/11/2018
Matrix: Soil
Site ID: OAK HILL

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
2,4,6-Trichlorophenol	ND	0.067	0.332	NA		mg/Kg	5/15/2018 5:39 PM	PA/VA
Surr: 2-Fluorophenol	75.0	NA	39.2-110	NA		%Rec	5/15/2018 5:39 PM	
Surr: Phenol-d5	77.1	NA	45.4-110	NA		%Rec	5/15/2018 5:39 PM	
Surr: 2,4,6-Tribromophenol	88.1	NA	37.2-113	NA		%Rec	5/15/2018 5:39 PM	
Surr: Nitrobenzene-d5	143	NA	23.3-114	NA	S	%Rec	5/15/2018 5:39 PM	PA/VA
Surr: 2-Fluorobiphenyl	88.9	NA	24.2-119	NA		%Rec	5/15/2018 5:39 PM	
Surr: 4-Terphenyl-d14	85.6	NA	37.5-127	NA		%Rec	5/15/2018 5:39 PM	

Sample Receipt Checklist

Client Name: WES087		Work Order Number: 18051760	
RCPNo: 1	Date and Time Received: 5/11/2018 5:34:57 PM	Received by: Blane Williams	
Completed By: Kim Pack		Reviewed By: Bobby Adams	
Completed Date: 5/11/2018 5:58:30 PM		Reviewed Date: 5/16/2018 3:31 PM	

Carrier Name: REIC

1. Chain of custody present?	Yes ☒	No ☐	
2. Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
3. Are matrices correctly identified on Chain of custody?	Yes ☒	No ☐	
4. Is it clear what analyses were requested?	Yes ☒	No ☐	
5. Custody seals intact?	Yes ☐	No ☐	Not Present ☒
6. Samples in proper container type and preservative?	Yes ☐	No ☒	
7. Were correct preservatives noted on COC?	Yes ☒	No ☐	NA ☐
8. Sample containers intact?	Yes ☒	No ☐	
9. Sufficient sample volume for indicated test?	Yes ☐	No ☒	
10. Were container labels complete?	Yes ☒	No ☐	
11. All samples received within holding time?	Yes ☒	No ☐	
12. Was an attempt made to cool the samples?	Yes ☒	No ☐	NA ☐
13. Sample Temp. taken and recorded upon receipt?	Yes ☐	No ☒	To _____ °C
14. Water - Were bubbles absent in VOC vials?	Yes ☐	No ☐	No Vials ☒
15. Are Samples considered acceptable?	Yes ☒	No ☐	
16. COC filled out properly?	Yes ☒	No ☐	

Client Notification/Response

Client Name: WES087		Work Order Number: 18051760	
Comment: NO SULFURIC CONTAINER FOR THE TOX ON SAMPLE LP18-073-001.			
Client Contacted:	Yes ☐	No ☐	NA ☒
Person Contacted:			
Contact Mode:	Phone ☐	Fax: ☐	Email: ☐
In Person:	☐		
Date Contacted:	Contacted By:		
Regarding:			
Client Instructions:			
Corrective Action:			



GEOCHEMICAL TESTING

Environmental and Energy Analysis

2005 N. Center Ave.
Somerset, PA 15501

814/443-1671
814/445-6666
FAX: 814/445-6729

Tuesday, May 22, 2018

Bobby Adams
REI CONSULTANTS, INC.
PO BOX 286
225 INDUSTRIAL PARK ROAD
BEAVER, WV 25813

Order No.: G1805943

Dear Bobby Adams:

Geochemical Testing received 5 sample(s) on 5/15/2018 for the analyses presented in the following report.

There were no problems with the analyses and all QC data met NELAC, EPA, and laboratory specifications except where noted in the Case Narrative or Laboratory Results.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Timothy W. Bergstresser
Director of Technical Services



Geochemical Testing

Date: 22-May-18

CLIENT: REI CONSULTANTS, INC.

Project:

Lab Order: G1805943

CASE NARRATIVE

No problems were encountered during analysis of this workorder, except if noted in this report.

Under West Virginia's Laboratory Certification Program, Geochemical Testing's Laboratory Certificate I.D. is 141.

SAMPLE RECEIPT CHECKLIST

	Response
COC is present	Yes
COC is filled out in ink and legible	Yes
COC relinquished, signature, date, and time	Yes
Samples arrived within hold time	Yes
Containers properly preserved for the requested testing	Yes
Sample containers have legible labels	Yes
Sample preservation verified	See note below
Appropriate sample containers are used	Yes
Sample container(s) received at proper temperature	Yes
Zero headspace where required	Yes
Sufficient volume for all requested analyses	Yes

Comments on the above checklist:

G1805943-001: TOX Bottle was received unfixed.

Legend: ND - Not Detected

J - Indicates an estimated value.

U - The analyte was not detected at or above the listed concentration, which is below the laboratory quantitation limit.

B - Analyte detected in the associated Method Blank

Q - Qualifier QL - Quantitation Limit DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

** - Value exceeds Action Limit

H - Method Hold Time Exceeded

MCL - Contaminant Limit



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 22-May-18

CLIENT:	REI CONSULTANTS, INC.	Client Sample ID:	18051760-01A
Lab Order:	G1805943		LP18-073-001
Project:		Collection Date:	5/11/2018 9:30:00 AM
Lab ID:	G1805943-001	Sampled By:	REIC
Matrix:	AQUEOUS	Date Received:	5/15/2018 10:01:13 AM

Analyses	Result	Q	MDL	PQL	Units	DF	Date Prepared	Date Analyzed
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INDICATOR ORGANIC PARAMETERS

Analyst: JML

EPA 9020

EPA 9020 B

Total Organic Halogen	67		20.0	50	µg/L	1	05/17/18 8:07 AM	05/17/18 3:36 PM
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NOTES:

The pH of the sample was >2. Consult with your regulatory agency for further guidance on the use of this data.



Laboratory Results

Geochemical Testing

Date: 22-May-18

CLIENT: REI CONSULTANTS, INC.

Client Sample ID: 18051760-02A

Lab Order: G1805943

LP18-073-002

Project:

Collection Date: 5/11/2018 9:45:00 AM

Lab ID: G1805943-002

Sampled By: REIC

Matrix: SOIL

Date Received: 5/15/2018 10:01:13 AM

Analyses	Result	Q	MDL	PQL	Units	DF	Date Prepared	Date Analyzed
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TOTAL ORGANIC HALOGEN

Analyst: JML

EPA 9023

EPA 9023

Extractable Organic Halides

ND

10

25

mg/Kg

1

05/16/18 10:50 AM

05/16/18 11:37 AM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 22-May-18

CLIENT:	REI CONSULTANTS, INC.	Client Sample ID:	18051760-03A
Lab Order:	G1805943		#1 Soil Bottom Tank Middle
Project:		Collection Date:	5/10/2018 2:10:00 PM
Lab ID:	G1805943-003	Sampled By:	REIC
Matrix:	SOIL	Date Received:	5/15/2018 10:01:13 AM

Analyses	Result	Q	MDL	PQL	Units	DF	Date Prepared	Date Analyzed
TOTAL ORGANIC HALOGEN								
Extractable Organic Halides	ND		10	25	mg/Kg	1	05/16/18 10:50 AM	05/16/18 12:07 PM

Laboratory Results

Geochemical Testing

Date: 22-May-18

CLIENT: REI CONSULTANTS, INC.

Client Sample ID: 18051760-04A

Lab Order: G1805943

#2 Soil Right Tank Wall

Project:

Collection Date: 5/10/2018 2:11:00 PM

Lab ID: G1805943-004

Sampled By: REIC

Matrix: SOIL

Date Received: 5/15/2018 10:01:13 AM

Analyses	Result	Q	MDL	PQL	Units	DF	Date Prepared	Date Analyzed
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TOTAL ORGANIC HALOGEN

Analyst: JML

EPA 9023

EPA 9023

Extractable Organic Halides

ND

10 25 mg/Kg

1

05/16/18 10:50 AM

05/16/18 12:13 PM



Laboratory Results

Geochemical Testing

Date: 22-May-18

CLIENT:	REI CONSULTANTS, INC.	Client Sample ID:	18051760-05A
Lab Order:	G1805943		#3 Soil Left Tank Front
Project:		Collection Date:	5/10/2018 2:12:00 PM
Lab ID:	G1805943-005	Sampled By:	REIC
Matrix:	SOIL	Date Received:	5/15/2018 10:01:13 AM

Analyses	Result	Q	MDL	PQL	Units	DF	Date Prepared	Date Analyzed
TOTAL ORGANIC HALOGEN							EPA 9023	EPA 9023
Extractable Organic Halides	123		10	25	mg/Kg	1	05/16/18 10:50 AM	05/16/18 12:31 PM