July 17, 2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-23014-1
TestAmerica Sample Delivery Group: SL2575
Client Project/Site: F17-042

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600, MS H8-41
Richland, Washington 99352

Attn: Mr. Scot Fitzgerald

Authorized for release by:
7/17/2017 11:23:22 AM

Jayna Awalt, Project Manager II
(314)298-8566
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-23014-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
July 17, 2017
Attention: Scot Fitzgerald

SDG	: SL2575
Number of Samples	: 2 samples
Sample Matrix	: Soil
Data Deliverable	: Summary
Date SDG Closed	: June 24, 2017

II. Introduction

On June 24, 2 samples were received by TestAmerica - St. Louis for analysis. The samples were received within temperature criteria. See the COC and receipt checklists for documentation of any variations on receipt conditions and temperature. Upon receipt, samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: F17-042

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with an LCS/LCS duplicate.

Note: For Metals analyses, per standard practice, all 6020 water and soil samples are initially prepared at 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate a narrative note; however, they are flagged “D” due to a limitation in the LIMS.

For solid matrices, all Metals analyses (including Hg) use a Standard Reference Material for the Laboratory Control Sample (LCS). Certificate for this source material may be obtained from TASL.

For Anion analysis, samples have been started at a 2x dilution per CHPRC direction. The samples are flagged accordingly with a “D” flag if sample concentration is above the MDL/RL. Non-conformance will be included in the below section only if dilution is greater than 2x.

For WTPH methods, the lab utilizes method 8015B. Per CHPRC direction, the method name in the electronic data has been modified to read WTPH in the place of 8015B.

Per CHPRC direction, due to the short hold times for Nitrate, Nitrite and Phosphate by IC (48 hours) as well as pH analysis (24 hours), a SIR request is not needed when samples are run outside 1x hold but within 2x hold. A narrative comment will be included below if a sample is run outside the lab-specified hold time for waters.

For extractable and volatile organic analyses, several analytes are considered poor performers and will not meet CHPRC QC limits. Per CHPRC direction, the lab’s statistical limits have been reported. Excursions outside these statistical limits will include a non-conformance in the sections below.

Job ID: 160-23014-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

IV. Definitions

QCBLK-	Quality Control Blank, Method Blank
QCLCS-	Quality Control Laboratory Control Sample, Blank Spike
DUP-	Laboratory Duplicate
MS-	Matrix Spike
MSD-	Matrix Spike Duplicate

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** - For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** - For organic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **B** - For radiochemistry, Method Blank reported above the MDC. Sample activity is > 5% the method blank.
- **J** - For organic analyses, the sample is estimated and less than the RL.
- **C** - For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL/RL but not greater than 5% the MB.
- **D** - For all analyses, the sample result was obtained from the analysis of a dilution. For ICPMS Metals analyses, per standard practice, all samples are initially prepared at a 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner and will not be narrated below. Only dilutions above 2x will be narrated and considered a true dilution for these samples.
- **N** - For inorganics, rad and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- **T** - For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.
- **o** - For all analyses, the LCS (LCSD) recoveries are outside QC limits.
- **P -** For organic analyses (PCB/Pests only), the aroclor target analyte has greater than 25% difference for detected concentrations between the two GC columns.
- **X-** Organics and Anions IC - Sample concentration over calibration and/or surrogate recovery outside QC limits.
- **X-** Inorganics - The analyte present in the original sample is > 4x the spike concentration.
- **X-** Radiochemistry - Carrier or Tracer recovery is outside limits.
- **Z-** Sample was prepped or analyzed beyond the specified sample holding time.
- **y -** RPD is outside established limits.

Volatiles

Batch: 316311

Methylene Chloride was detected in method blank MB 160-316312/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been flagged "B".

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-316311: Acetone, Bromomethane, Chloroethane and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-316311/4)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-316312 and analytical batch 160-316311 were outside control limits for Acetone. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS/LCSD) recoveries were within acceptance limits. (160-23014-B-2-A MS) and (160-23014-C-2-A MSD) This analyte has been qualified accordingly with a "T" flag in the associated samples.

ICP Metals

Job ID: 160-23014-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Batch: 316283

The following samples were diluted to bring the concentration of target analytes within the calibration range: B3BB64 (160-23014-2), (160-23014-G-2-B MS ^), (160-23014-G-2-C MSD) and (160-23014-G-2-A SD ^). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-315492 and analytical batch 160-316283 were outside control limits for Antimony and Magnesium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-23014-G-2-B MS ^) and (160-23014-G-2-C MSD) These analytes have been qualified accordingly with an "N" flag in the associated samples.

Due to the high concentration of Calcium and Iron, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-315492 and analytical batch 160-316283 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-23014-G-2-B MS ^) and (160-23014-G-2-C MSD)

ICPMS Metals

Batch: 315788

The following samples were diluted due to the nature of the sample matrix. Samples are high in salts which can cause instrument and QC failures when ran at a lesser dilution. Digested samples are also yellow in color indicating potential matrix interference: B3BB64 (160-23014-2), (160-23014-G-2-E MS), (160-23014-G-2-F MSD) and (160-23014-G-2-D SD). Elevated reporting limits (RLs) are provided. This analyte has been qualified accordingly with a "D" flag in the associated samples.

There were no observations or non-conformances associated with the following methods:

Semivolatiles
Total Cyanide

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager or designee and the laboratory's client services representative as verified by their signature on this report.

Reviewed and approved:

Jayna Awalt
St. Louis Project Manager

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-23014-1
SDG Number: SL2575

Login Number: 23014
List Number: 1
Creator: Taylor, Kristene N

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	17,0.3,3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CH2MHill Plateau Remediation Company	531105 CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-042-020	PAGE 1 OF 1
COLLECTOR KATHY TURNER CHPRC 92575	COMPANY CONTACT KILLAND, KE	TELEPHONE NO. 373-0221	PROJECT COORDINATOR KILLAND, KE	PRICE CODE 8C	DATA TURNAROUND
SAMPLING LOCATION 200-BP-5 TRANSFER LINE EXCAVATION - FXR	PROJECT DESIGNATION 200-BP-5 Transfer Line Leak Sampling - Soil		SAF NO. F17-042	AIR QUALITY ☐	15 Days / 15 Days
ICE CHEST NO. GW5-397	FIELD LOGBOOK NO. HNF -N-507-38-17	ACTUAL SAMPLE DEPTH N/A	COA 304234	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 7794 7847 7724		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION	Cool <-7C and >-20C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs
		NO. OF CONTAINER(S)	5
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE NA	SAMPLE ANALYSIS	5035/8260_VOA : LOW LEVEL: COMMON;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3BB65	SOIL	JUN 2 2 2017	1402	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM KATHY TURNER CHPRC	DATE/TIME JUN 2 2 2017 1520	RECEIVED BY/STORED IN SSU-1	DATE/TIME JUN 2 2 2017 1520
RELINQUISHED BY/REMOVED FROM SSU-1	DATE/TIME JUN 2 3 2017 0700	RECEIVED BY/STORED IN Janelle Zunker CHPRC	DATE/TIME JUN 2 3 2017 0700
RELINQUISHED BY/REMOVED FROM Janelle Zunker CHPRC	DATE/TIME JUN 2 3 2017 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FED EX	DATE/TIME	RECEIVED BY/STORED IN Kristene Taylor	DATE/TIME 06-24-170810
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

TRVL-17-152; ** All VOA samples will be collected using EPA Method 5035A and will include 5 bottles for low level analysis.** The laboratory is to use one of the low level VOA bottles for moisture content determination.** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 6/19/2017 FSR ID = FSR46900 TRVL NUM = TRVL-17-152 A-6003-618 (REV 2)

SAMPLE RECORD SHEET FOR VOC SAMPLE COLLECTION

Location: 200-BP-5 TRANSFER LINE FXR

Sampler Initials and Date: KMT 6.22.17

Sample Number [1]	Sample Suffix	Initial Weight [2] (grams)	Total Weight [3] (grams)	Soil Weight [4] (grams)
B3BB65	K	28.69	32.2	3.51
B3BB65	L	29.07	32.2	3.13
B3BB65	M	28.79	33.1	4.31
B3BB65	N	28.71	31.8	3.09
B3BB65	P	28.81	32.8	3.99

[1] Enter sample number associated with the sampling event.

[2] Initial weight is to include all labels, stickers, bags, spin bars (for samples with suffix K, L, M, N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

[3] Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

[4] Soil weight is the vial with sample minus Initial Weight.

A-6005-526 (REV 0)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-042-019	PAGE 1 OF 2

COLLECTOR KATHY TURNER CHPRC 82575	COMPANY CONTACT KILLAND, KE	TELEPHONE NO. 373-0221	PROJECT COORDINATOR KILLAND, KE	PRICE CODE 8C / DATA TURNAROUND
SAMPLING LOCATION 200-BP-5 TRANSFER LINE EXCAVATION	PROJECT DESIGNATION 200-BP-5 Transfer Line Leak Sampling - Soil		SAF NO. F17-042	AIR QUALITY ☐ / 15 Days / 15 Days
ICE CHEST NO. GWS-397	FIELD LOGBOOK NO. HNF-N-507-38-17	ACTUAL SAMPLE DEPTH 8 ft.	COA 304234	METHOD OF SHIPMENT FEDERAL EXPRESS ORIGINAL
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 7794 7847 7724	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3BB61~~ bb 6-22-17

PRESERVATION	Cool <-7C and >-20C	Cool <=6C	Cool <=6C
HOLDING TIME	14 Days	14/40 Days	6 Months
TYPE OF CONTAINER	aGs	aG	aG
NO. OF CONTAINER(S)	5	1	1
VOLUME	40mL	250mL	250mL
SAMPLE ANALYSIS	5035/8260_VOA : LOW LEVEL: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BB64	SOIL	JUN 2 2 2017	1402	✓	✓	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
KATHY TURNER CHPRC	JUN 2 2 2017 1520	SSU-1	JUN 2 2 2017 1520
SSU-1	JUN 2 3 2017 0700	Janelle Zunker CHPRC	JUN 2 3 2017 0700
Janelle Zunker CHPRC	JUN 2 3 2017 1400	FEDEX	
FED EX		Kristene Taylor	6-24-17 0910

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 6/19/2017 FSR ID = FSR46904 TRVL NUM = TRVL-17-152 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-042-019	PAGE 2 OF 2
COLLECTOR KATHY TURNER CHPRC	COMPANY CONTACT KILLAND, KE	TELEPHONE NO. 373-0221	PROJECT COORDINATOR KILLAND, KE	PRICE CODE 8C AIR QUALITY ☐	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 200-BP-5 TRANSFER LINE EXCAVATION	PROJECT DESIGNATION 200-BP-5 Transfer Line Leak Sampling - Soil		SAF NO. F17-042		
ICE CHEST NO. GWS-397	FIELD LOGBOOK NO. HNF-N-507-38-17	ACTUAL SAMPLE DEPTH 8ft.	COA 304234	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 7794 7847 7724		

SPECIAL INSTRUCTIONS

TRVL-17-152; ** All VOA samples will be collected using EPA Method 5035A and will include 5 bottles for low level analysis.** The laboratory is to use one of the low level VOA bottles for moisture content determination.** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.
(1) 8270_SVOA_GCMS: COMMON; 8270_SVOA_GCMS: COMMON (Add-on) {3+4 Methylphenol (cresol, m+p)};
(2) 6010_METALS_ICP: COMMON; 6010_METALS_ICP: COMMON (Add-on) {Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Uranium}; 9012_CYANIDE (TOTAL): COMMON;

PRINTED ON 6/19/2017 FSR ID = FSR46904 TRVL NUM = TRVL-17-152 A-6003-618 (REV 2)

SAMPLE RECORD SHEET FOR VOC SAMPLE COLLECTION

Location: 200-BP-5 TRANSFER LINE

Sampler Initials and Date: KMT 6.22.17

Sample Number [1]	Sample Suffix	Initial Weight [2] (grams)	Total Weight [3] (grams)	Soil Weight [4] (grams)
B3BB64	K	28.64	33.8	5.16
B3BB64	L	28.81	33.8	4.99
B3BB64	M	28.94	33.7	4.76
B3BB64	N	28.84	34.7	5.86
B3BB64	P	28.73	34.3	5.57

[1] Enter sample number associated with the sampling event.

[2] Initial weight is to include all labels, stickers, bags, spin bars (for samples with suffix K, L, M, N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

[3] Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

[4] Soil weight is the vial with sample minus Initial Weight.

A-6005-526 (REV 0)

IMPORTANT!
FedEx has now returned to standard operations in areas of the U.S. recently affected by Tropical Storm Cindy. Learn More

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779478477724

Ship date:
Fri 6/23/2017

RICHLAND, WA US

Delivered
Signed for by: J.CLARK

Actual delivery:
Sat 6/24/2017 8:33 am

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 6/24/2017 - Saturday		
8:33 am	Delivered	EARTH CITY, MO
8:01 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:56 am	At local FedEx facility	EARTH CITY, MO
5:16 am	At destination sort facility	BERKELEY, MO
4:29 am	Departed FedEx location	MEMPHIS, TN
12:14 am	Arrived at FedEx location	MEMPHIS, TN
- 6/23/2017 - Friday		
4:47 pm	Left FedEx origin facility	PASCO, WA
3:17 pm	Picked up	PASCO, WA
10:48 am	Shipment information sent to FedEx	

Shipment Facts

Tracking number	779478477724	**Service**	FedEx Priority Overnight
Weight	53 lbs / 24.04 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	53 lbs / 24.04 kgs
Terms	Recipient	**Shipper reference**	GWS-397
Packaging	Your Packaging	**Special handling section**	For Saturday Delivery
Standard transit	6/24/2017 by 12:00 pm		

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
T	MS, MSD: Recovery exceeds upper or lower control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
B	Estimated result. Result is less than the RL, but greater than MDL
N	Recovery exceeds upper or lower control limits
U	Analyzed for but not detected.
X	See case narrative notes for explanation of the 'X' flag

General Chemistry

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-042

TestAmerica Job ID: 160-23014-1
SDG: SL2575

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
9012B	Cyanide, Total andor Amenable	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-042

TestAmerica Job ID: 160-23014-1
SDG: SL2575

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-23014-1	B3BB65	Soil	06/22/17 14:02	06/24/17 08:40
160-23014-2	B3BB64	Soil	06/22/17 14:02	06/24/17 08:40

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-042

TestAmerica Job ID: 160-23014-1
SDG: SL2575

Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: B3BB65
Date Collected: 06/22/17 14:02
Date Received: 06/24/17 08:40

Lab Sample ID: 160-23014-1
Matrix: Soil
Percent Solids: 99.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	5.8	0.50	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
1,1,2,2-Tetrachloroethane	0.47	U	5.8	0.47	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
1,1,2-Trichloroethane	0.66	U	5.8	0.66	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
1,1-Dichloroethane	0.45	U	5.8	0.45	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
1,1-Dichloroethene	1.9	U	5.8	1.9	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
1,2-Dichloroethane	1.0	U	5.8	1.0	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
1,2-Dichloroethene, Total	1.1	U	12	1.1	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
1,2-Dichloropropane	0.44	U	5.8	0.44	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
2-Butanone (MEK)	2.2	U	23	2.2	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
2-Hexanone	2.1	U	23	2.1	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
4-Methyl-2-pentanone (MIBK)	0.85	U	23	0.85	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Acetone	7.5	U T	23	7.5	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Benzene	0.29	U	5.8	0.29	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Bromodichloromethane	0.29	U	5.8	0.29	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Bromoform	0.43	U	5.8	0.43	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Bromomethane	1.3	U	12	1.3	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Carbon disulfide	0.80	U	5.8	0.80	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Carbon tetrachloride	0.59	U	5.8	0.59	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Chlorobenzene	0.44	U	5.8	0.44	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Chloroethane	0.61	U	12	0.61	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Chloroform	0.44	U	5.8	0.44	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Chloromethane	0.76	U	12	0.76	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
cis-1,3-Dichloropropene	0.70	U	5.8	0.70	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Dibromochloromethane	0.48	U	5.8	0.48	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Ethylbenzene	0.35	U	5.8	0.35	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Methylene Chloride	1.8	U	5.8	1.8	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Styrene	0.41	U	5.8	0.41	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Tetrachloroethene	0.37	U	5.8	0.37	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Toluene	0.81	U	5.8	0.81	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
trans-1,3-Dichloropropene	0.41	U	5.8	0.41	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Trichloroethene	0.45	U	5.8	0.45	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Vinyl chloride	0.50	U	5.8	0.50	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1
Xylenes, Total	0.99	U	12	0.99	ug/Kg	☼	07/05/17 15:19	07/05/17 20:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼			*07/05/17 15:19*	*07/05/17 20:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*67 - 132*	*07/05/17 15:19*	*07/05/17 20:13*	*1*
4-Bromofluorobenzene (Surr)	*94*		*59 - 150*	*07/05/17 15:19*	*07/05/17 20:13*	*1*
Dibromofluoromethane (Surr)	*107*		*53 - 143*	*07/05/17 15:19*	*07/05/17 20:13*	*1*
Toluene-d8 (Surr)	*94*		*74 - 135*	*07/05/17 15:19*	*07/05/17 20:13*	*1*

Client Sample ID: B3BB64
Date Collected: 06/22/17 14:02
Date Received: 06/24/17 08:40

Lab Sample ID: 160-23014-2
Matrix: Soil
Percent Solids: 92.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.45	U	5.2	0.45	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
1,1,2,2-Tetrachloroethane	0.42	U	5.2	0.42	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
1,1,2-Trichloroethane	0.60	U	5.2	0.60	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: B3BB64 — **Lab Sample ID: 160-23014-2**
Date Collected: 06/22/17 14:02 — **Matrix: Soil**
Date Received: 06/24/17 08:40 — **Percent Solids: 92.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.41	U	5.2	0.41	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
1,1-Dichloroethene	1.7	U	5.2	1.7	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
1,2-Dichloroethane	0.91	U	5.2	0.91	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
1,2-Dichloroethene, Total	1.0	U	10	1.0	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
1,2-Dichloropropane	0.40	U	5.2	0.40	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
2-Butanone (MEK)	2.0	U	21	2.0	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
2-Hexanone	1.9	U	21	1.9	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
4-Methyl-2-pentanone (MIBK)	0.76	U	21	0.76	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Acetone	6.8	U T	21	6.8	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Benzene	0.26	U	5.2	0.26	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Bromodichloromethane	0.26	U	5.2	0.26	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Bromoform	0.39	U	5.2	0.39	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Bromomethane	1.2	U	10	1.2	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Carbon disulfide	0.72	U	5.2	0.72	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Carbon tetrachloride	0.53	U	5.2	0.53	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Chlorobenzene	0.40	U	5.2	0.40	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Chloroethane	0.54	U	10	0.54	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Chloroform	0.40	U	5.2	0.40	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Chloromethane	0.68	U	10	0.68	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
cis-1,3-Dichloropropene	0.63	U	5.2	0.63	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Dibromochloromethane	0.43	U	5.2	0.43	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Ethylbenzene	0.31	U	5.2	0.31	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Methylene Chloride	1.7	U	5.2	1.7	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Styrene	0.37	U	5.2	0.37	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Tetrachloroethene	0.33	U	5.2	0.33	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Toluene	0.73	U	5.2	0.73	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
trans-1,3-Dichloropropene	0.37	U	5.2	0.37	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Trichloroethene	0.41	U	5.2	0.41	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Vinyl chloride	0.45	U	5.2	0.45	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1
Xylenes, Total	0.89	U	10	0.89	ug/Kg	☼	07/05/17 15:19	07/05/17 20:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼			*07/05/17 15:19*	*07/05/17 20:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*67 - 132*	*07/05/17 15:19*	*07/05/17 20:38*	*1*
4-Bromofluorobenzene (Surr)	*93*		*59 - 150*	*07/05/17 15:19*	*07/05/17 20:38*	*1*
Dibromofluoromethane (Surr)	*88*		*53 - 143*	*07/05/17 15:19*	*07/05/17 20:38*	*1*
Toluene-d8 (Surr)	*76*		*74 - 135*	*07/05/17 15:19*	*07/05/17 20:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: B3BB64 — **Lab Sample ID: 160-23014-2**
Date Collected: 06/22/17 14:02 — **Matrix: Soil**
Date Received: 06/24/17 08:40 — **Percent Solids: 92.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	36	U	350	36	ug/Kg	☼	06/30/17 14:38	07/11/17 21:56	1
2,4-Dichlorophenol	36	U	350	36	ug/Kg	☼	06/30/17 14:38	07/11/17 21:56	1
2-Methylphenol	36	U	350	36	ug/Kg	☼	06/30/17 14:38	07/11/17 21:56	1
2-Nitrophenol	36	U	350	36	ug/Kg	☼	06/30/17 14:38	07/11/17 21:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B3BB64 — **Lab Sample ID: 160-23014-2**
Date Collected: 06/22/17 14:02 — **Matrix: Soil**
Date Received: 06/24/17 08:40 — **Percent Solids: 92.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	72	U	710	72	ug/Kg	☼	06/30/17 14:38	07/11/17 21:56	1
Bis(2-ethylhexyl) phthalate	49	U	350	49	ug/Kg	☼	06/30/17 14:38	07/11/17 21:56	1
Naphthalene	36	U	350	36	ug/Kg	☼	06/30/17 14:38	07/11/17 21:56	1
Pentachlorophenol	350	U	1700	350	ug/Kg	☼	06/30/17 14:38	07/11/17 21:56	1
Phenol	36	U	350	36	ug/Kg	☼	06/30/17 14:38	07/11/17 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*47 - 125*	*06/30/17 14:38*	*07/11/17 21:56*	*1*
2-Fluorobiphenyl (Surr)	*67*		*59 - 110*	*06/30/17 14:38*	*07/11/17 21:56*	*1*
2-Fluorophenol (Surr)	*65*		*54 - 102*	*06/30/17 14:38*	*07/11/17 21:56*	*1*
Nitrobenzene-d5 (Surr)	*64*		*44 - 120*	*06/30/17 14:38*	*07/11/17 21:56*	*1*
Phenol-d5 (Surr)	*61*		*51 - 104*	*06/30/17 14:38*	*07/11/17 21:56*	*1*
Terphenyl-d14 (Surr)	*80*		*59 - 98*	*06/30/17 14:38*	*07/11/17 21:56*	*1*

Method: 6010C - Metals (ICP)

Client Sample ID: B3BB64 — **Lab Sample ID: 160-23014-2**
Date Collected: 06/22/17 14:02 — **Matrix: Soil**
Date Received: 06/24/17 08:40 — **Percent Solids: 92.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**	**B D N**	2.1	0.51	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Arsenic	**2.5**	**D**	2.1	0.51	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Barium	**71.3**	**D**	10.3	3.1	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Cadmium	0.31	U D	1.0	0.31	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Calcium	**5250**	**D**	515	154	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Chromium	**9.9**	**D**	2.1	0.51	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Cobalt	**10.7**	**D**	10.3	3.1	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Copper	**11.0**	**D**	5.1	1.5	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Iron	**17600**	**D**	20.6	5.1	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Lead	**5.1**	**D**	2.1	0.51	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Magnesium	**3540**	**D N**	206	51.5	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Manganese	**284**	**D**	2.1	0.51	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Nickel	**10.6**	**D**	8.2	2.1	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Potassium	**1300**	**D**	1030	309	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Selenium	0.51	U D	3.1	0.51	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Silver	0.51	U D	2.1	0.51	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Sodium	**179**	**B D**	206	51.5	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Vanadium	**43.6**	**D**	10.3	3.1	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2
Zinc	**40.5**	**D**	10.3	3.1	mg/Kg	☼	06/27/17 09:47	07/05/17 09:07	2

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3BB64 — **Lab Sample ID: 160-23014-2**
Date Collected: 06/22/17 14:02 — **Matrix: Soil**
Date Received: 06/24/17 08:40 — **Percent Solids: 92.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.45**	**D**	0.26	0.10	mg/Kg	☼	06/27/17 09:48	06/28/17 20:04	5

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-042

TestAmerica Job ID: 160-23014-1
SDG: SL2575

General Chemistry

Client Sample ID: B3BB64
Date Collected: 06/22/17 14:02
Date Received: 06/24/17 08:40

Lab Sample ID: 160-23014-2
Matrix: Soil
Percent Solids: 92.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	06/27/17 17:00	06/28/17 10:57	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 160-316312/1-A
Matrix: Solid
Analysis Batch: 316311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.43	U	5.0	0.43	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
1,1,2,2-Tetrachloroethane	0.40	U	5.0	0.40	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
1,1,2-Trichloroethane	0.57	U	5.0	0.57	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
1,1-Dichloroethane	0.39	U	5.0	0.39	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
1,1-Dichloroethene	1.6	U	5.0	1.6	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
1,2-Dichloroethane	0.87	U	5.0	0.87	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
1,2-Dichloroethene, Total	0.96	U	10	0.96	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
1,2-Dichloropropane	0.38	U	5.0	0.38	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
2-Butanone (MEK)	1.9	U	20	1.9	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
2-Hexanone	1.8	U	20	1.8	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
4-Methyl-2-pentanone (MIBK)	0.73	U	20	0.73	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Acetone	6.5	U	20	6.5	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Benzene	0.25	U	5.0	0.25	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Bromodichloromethane	0.25	U	5.0	0.25	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Bromoform	0.37	U	5.0	0.37	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Bromomethane	1.1	U	10	1.1	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Carbon disulfide	0.69	U	5.0	0.69	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Carbon tetrachloride	0.51	U	5.0	0.51	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Chlorobenzene	0.38	U	5.0	0.38	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Chloroethane	0.52	U	10	0.52	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Chloroform	0.38	U	5.0	0.38	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Chloromethane	0.65	U	10	0.65	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
cis-1,3-Dichloropropene	0.60	U	5.0	0.60	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Dibromochloromethane	0.41	U	5.0	0.41	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Ethylbenzene	0.30	U	5.0	0.30	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Methylene Chloride	2.47	J	5.0	1.6	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Styrene	0.35	U	5.0	0.35	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Tetrachloroethene	0.32	U	5.0	0.32	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Toluene	0.70	U	5.0	0.70	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
trans-1,3-Dichloropropene	0.35	U	5.0	0.35	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Trichloroethene	0.39	U	5.0	0.39	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Vinyl chloride	0.43	U	5.0	0.43	ug/Kg		07/05/17 15:19	07/05/17 19:20	1
Xylenes, Total	0.85	U	10	0.85	ug/Kg		07/05/17 15:19	07/05/17 19:20	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*				*07/05/17 15:19*	*07/05/17 19:20*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*67 - 132*	*07/05/17 15:19*	*07/05/17 19:20*	*1*
4-Bromofluorobenzene (Surr)	*99*		*59 - 150*	*07/05/17 15:19*	*07/05/17 19:20*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 143*	*07/05/17 15:19*	*07/05/17 19:20*	*1*
Toluene-d8 (Surr)	*83*		*74 - 135*	*07/05/17 15:19*	*07/05/17 19:20*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 160-316312/2-A
Matrix: Solid
Analysis Batch: 316311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.3		ug/Kg		101	71 - 127
1,1,2,2-Tetrachloroethane	50.0	49.2		ug/Kg		98	52 - 140
1,1,2-Trichloroethane	50.0	51.1		ug/Kg		102	79 - 122
1,1-Dichloroethane	50.0	49.9		ug/Kg		100	80 - 120
1,1-Dichloroethene	50.0	51.9		ug/Kg		104	71 - 126
1,2-Dichloroethane	50.0	53.1		ug/Kg		106	68 - 128
1,2-Dichloroethene, Total	100	103		ug/Kg		103	79 - 121
1,2-Dichloropropane	50.0	52.4		ug/Kg		105	80 - 126
2-Butanone (MEK)	50.0	57.5		ug/Kg		115	41 - 140
2-Hexanone	50.0	59.7		ug/Kg		119	63 - 136
4-Methyl-2-pentanone (MIBK)	50.0	58.1		ug/Kg		116	67 - 130
Acetone	50.0	55.0		ug/Kg		110	39 - 140
Benzene	50.0	47.5		ug/Kg		95	80 - 120
Bromodichloromethane	50.0	53.5		ug/Kg		107	78 - 124
Bromoform	50.0	52.3		ug/Kg		105	67 - 135
Bromomethane	50.0	49.8		ug/Kg		100	61 - 132
Carbon disulfide	50.0	50.4		ug/Kg		101	74 - 124
Carbon tetrachloride	50.0	53.0		ug/Kg		106	68 - 130
Chlorobenzene	50.0	50.8		ug/Kg		102	80 - 120
Chloroethane	50.0	46.9		ug/Kg		94	73 - 129
Chloroform	50.0	50.0		ug/Kg		100	78 - 120
Chloromethane	50.0	58.4		ug/Kg		117	69 - 123
cis-1,3-Dichloropropene	50.0	56.6		ug/Kg		113	78 - 127
Dibromochloromethane	50.0	53.4		ug/Kg		107	77 - 126
Ethylbenzene	50.0	50.2		ug/Kg		100	79 - 126
Methylene Chloride	50.0	53.2		ug/Kg		106	76 - 120
Styrene	50.0	53.6		ug/Kg		107	80 - 129
Tetrachloroethene	50.0	51.5		ug/Kg		103	76 - 126
Toluene	50.0	49.8		ug/Kg		100	76 - 136
trans-1,3-Dichloropropene	50.0	54.6		ug/Kg		109	77 - 136
Trichloroethene	50.0	48.1		ug/Kg		96	66 - 130
Vinyl chloride	50.0	51.3		ug/Kg		103	56 - 134
Xylenes, Total	100	106		ug/Kg		106	79 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 132*
4-Bromofluorobenzene (Surr)	*103*		*59 - 150*
Dibromofluoromethane (Surr)	*89*		*53 - 143*
Toluene-d8 (Surr)	*86*		*74 - 135*

Lab Sample ID: LCSD 160-316312/3-A
Matrix: Solid
Analysis Batch: 316311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 316312

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.4		ug/Kg		105	71 - 127	4	20
1,1,2,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	52 - 140	2	20
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	79 - 122	2	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 160-316312/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 316311 — **Prep Batch: 316312**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	49.8		ug/Kg		100	80 - 120	0	20
1,1-Dichloroethene	50.0	50.8		ug/Kg		102	71 - 126	2	20
1,2-Dichloroethane	50.0	51.3		ug/Kg		103	68 - 128	4	20
1,2-Dichloroethene, Total	100	102		ug/Kg		102	79 - 121	0	20
1,2-Dichloropropane	50.0	52.5		ug/Kg		105	80 - 126	0	20
2-Butanone (MEK)	50.0	55.9		ug/Kg		112	41 - 140	3	20
2-Hexanone	50.0	58.0		ug/Kg		116	63 - 136	3	20
4-Methyl-2-pentanone (MIBK)	50.0	56.2		ug/Kg		112	67 - 130	3	20
Acetone	50.0	52.1		ug/Kg		104	39 - 140	6	20
Benzene	50.0	47.0		ug/Kg		94	80 - 120	1	20
Bromodichloromethane	50.0	53.7		ug/Kg		107	78 - 124	0	20
Bromoform	50.0	50.5		ug/Kg		101	67 - 135	4	20
Bromomethane	50.0	58.0		ug/Kg		116	61 - 132	15	20
Carbon disulfide	50.0	50.9		ug/Kg		102	74 - 124	1	20
Carbon tetrachloride	50.0	53.1		ug/Kg		106	68 - 130	0	20
Chlorobenzene	50.0	50.8		ug/Kg		102	80 - 120	0	20
Chloroethane	50.0	49.0		ug/Kg		98	73 - 129	4	20
Chloroform	50.0	49.8		ug/Kg		100	78 - 120	1	20
Chloromethane	50.0	57.8		ug/Kg		116	69 - 123	1	20
cis-1,3-Dichloropropene	50.0	56.2		ug/Kg		112	78 - 127	1	20
Dibromochloromethane	50.0	53.6		ug/Kg		107	77 - 126	0	20
Ethylbenzene	50.0	50.9		ug/Kg		102	79 - 126	1	20
Methylene Chloride	50.0	50.4		ug/Kg		101	76 - 120	5	20
Styrene	50.0	53.6		ug/Kg		107	80 - 129	0	20
Tetrachloroethene	50.0	52.0		ug/Kg		104	76 - 126	1	20
Toluene	50.0	50.0		ug/Kg		100	76 - 136	0	20
trans-1,3-Dichloropropene	50.0	54.8		ug/Kg		110	77 - 136	0	20
Trichloroethene	50.0	48.5		ug/Kg		97	66 - 130	1	20
Vinyl chloride	50.0	53.3		ug/Kg		107	56 - 134	4	20
Xylenes, Total	100	106		ug/Kg		106	79 - 132	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 132*
4-Bromofluorobenzene (Surr)	*105*		*59 - 150*
Dibromofluoromethane (Surr)	*89*		*53 - 143*
Toluene-d8 (Surr)	*88*		*74 - 135*

Lab Sample ID: 160-23014-2 MS — **Client Sample ID: B3BB64**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 316311 — **Prep Batch: 316312**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.45	U	54.1	58.1		ug/Kg	☼	107	80 - 120
1,1,2,2-Tetrachloroethane	0.42	U	54.1	51.7		ug/Kg	☼	96	78 - 120
1,1,2-Trichloroethane	0.60	U	54.1	57.3		ug/Kg	☼	106	80 - 120
1,1-Dichloroethane	0.41	U	54.1	57.8		ug/Kg	☼	107	80 - 120
1,1-Dichloroethene	1.7	U	54.1	55.3		ug/Kg	☼	102	78 - 121
1,2-Dichloroethane	0.91	U	54.1	59.6		ug/Kg	☼	110	78 - 117

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 160-23014-2 MS — **Client Sample ID: B3BB64**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 316311 — **Prep Batch: 316312**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethene, Total	1.0	U	108	114		ug/Kg	☼	105	80 - 120
1,2-Dichloropropane	0.40	U	54.1	60.5		ug/Kg	☼	112	80 - 120
2-Butanone (MEK)	2.0	U	54.1	58.3		ug/Kg	☼	108	69 - 124
2-Hexanone	1.9	U	54.1	61.1		ug/Kg	☼	113	62 - 118
4-Methyl-2-pentanone (MIBK)	0.76	U	54.1	63.5		ug/Kg	☼	117	73 - 125
Acetone	6.8	U T	54.1	78.9	T	ug/Kg	☼	146	54 - 139
Benzene	0.26	U	54.1	54.6		ug/Kg	☼	101	80 - 120
Bromodichloromethane	0.26	U	54.1	62.1		ug/Kg	☼	115	80 - 120
Bromoform	0.39	U	54.1	63.4		ug/Kg	☼	117	80 - 125
Bromomethane	1.2	U	54.1	61.5		ug/Kg	☼	114	70 - 126
Carbon disulfide	0.72	U	54.1	53.7		ug/Kg	☼	99	79 - 121
Carbon tetrachloride	0.53	U	54.1	56.6		ug/Kg	☼	105	80 - 120
Chlorobenzene	0.40	U	54.1	55.5		ug/Kg	☼	103	80 - 120
Chloroethane	0.54	U	54.1	54.8		ug/Kg	☼	101	64 - 133
Chloroform	0.40	U	54.1	58.6		ug/Kg	☼	108	80 - 120
Chloromethane	0.68	U	54.1	64.4		ug/Kg	☼	119	75 - 120
cis-1,3-Dichloropropene	0.63	U	54.1	62.7		ug/Kg	☼	116	80 - 120
Dibromochloromethane	0.43	U	54.1	61.1		ug/Kg	☼	113	80 - 120
Ethylbenzene	0.31	U	54.1	53.2		ug/Kg	☼	98	80 - 120
Methylene Chloride	1.7	U	54.1	59.2		ug/Kg	☼	109	77 - 123
Styrene	0.37	U	54.1	56.3		ug/Kg	☼	104	80 - 120
Tetrachloroethene	0.33	U	54.1	50.1		ug/Kg	☼	93	80 - 120
Toluene	0.73	U	54.1	55.1		ug/Kg	☼	102	80 - 124
trans-1,3-Dichloropropene	0.37	U	54.1	60.9		ug/Kg	☼	113	80 - 122
Trichloroethene	0.41	U	54.1	57.3		ug/Kg	☼	106	79 - 120
Vinyl chloride	0.45	U	54.1	56.9		ug/Kg	☼	105	71 - 120
Xylenes, Total	0.89	U	108	112		ug/Kg	☼	103	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*67 - 132*
4-Bromofluorobenzene (Surr)	*120*		*59 - 150*
Dibromofluoromethane (Surr)	*96*		*53 - 143*
Toluene-d8 (Surr)	*93*		*74 - 135*

Lab Sample ID: 160-23014-2 MSD — **Client Sample ID: B3BB64**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 316311 — **Prep Batch: 316312**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.45	U	56.7	56.3		ug/Kg	☼	99	80 - 120	3	20
1,1,2,2-Tetrachloroethane	0.42	U	56.7	50.5		ug/Kg	☼	89	78 - 120	2	20
1,1,2-Trichloroethane	0.60	U	56.7	55.8		ug/Kg	☼	98	80 - 120	3	20
1,1-Dichloroethane	0.41	U	56.7	56.1		ug/Kg	☼	99	80 - 120	3	20
1,1-Dichloroethene	1.7	U	56.7	54.4		ug/Kg	☼	96	78 - 121	2	20
1,2-Dichloroethane	0.91	U	56.7	57.8		ug/Kg	☼	102	78 - 117	3	20
1,2-Dichloroethene, Total	1.0	U	113	113		ug/Kg	☼	99	80 - 120	1	20
1,2-Dichloropropane	0.40	U	56.7	59.0		ug/Kg	☼	104	80 - 120	2	20
2-Butanone (MEK)	2.0	U	56.7	53.3		ug/Kg	☼	94	69 - 124	9	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 160-23014-2 MSD — **Client Sample ID: B3BB64**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 316311 — **Prep Batch: 316312**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	1.9	U	56.7	55.6		ug/Kg	☼	98	62 - 118	9	20
4-Methyl-2-pentanone (MIBK)	0.76	U	56.7	60.9		ug/Kg	☼	107	73 - 125	4	20
Acetone	6.8	U T	56.7	87.7	T	ug/Kg	☼	155	54 - 139	11	20
Benzene	0.26	U	56.7	53.2		ug/Kg	☼	94	80 - 120	3	20
Bromodichloromethane	0.26	U	56.7	60.0		ug/Kg	☼	106	80 - 120	3	20
Bromoform	0.39	U	56.7	59.2		ug/Kg	☼	104	80 - 125	7	20
Bromomethane	1.2	U	56.7	58.7		ug/Kg	☼	103	70 - 126	5	20
Carbon disulfide	0.72	U	56.7	52.6		ug/Kg	☼	93	79 - 121	2	20
Carbon tetrachloride	0.53	U	56.7	56.1		ug/Kg	☼	99	80 - 120	1	20
Chlorobenzene	0.40	U	56.7	55.5		ug/Kg	☼	98	80 - 120	0	20
Chloroethane	0.54	U	56.7	55.5		ug/Kg	☼	98	64 - 133	1	20
Chloroform	0.40	U	56.7	56.4		ug/Kg	☼	99	80 - 120	4	20
Chloromethane	0.68	U	56.7	62.0		ug/Kg	☼	109	75 - 120	4	20
cis-1,3-Dichloropropene	0.63	U	56.7	61.3		ug/Kg	☼	108	80 - 120	2	20
Dibromochloromethane	0.43	U	56.7	58.4		ug/Kg	☼	103	80 - 120	5	20
Ethylbenzene	0.31	U	56.7	53.1		ug/Kg	☼	94	80 - 120	0	20
Methylene Chloride	1.7	U	56.7	56.9		ug/Kg	☼	100	77 - 123	4	20
Styrene	0.37	U	56.7	56.1		ug/Kg	☼	99	80 - 120	0	20
Tetrachloroethene	0.33	U	56.7	51.3		ug/Kg	☼	90	80 - 120	2	20
Toluene	0.73	U	56.7	54.2		ug/Kg	☼	96	80 - 124	2	20
trans-1,3-Dichloropropene	0.37	U	56.7	58.9		ug/Kg	☼	104	80 - 122	3	20
Trichloroethene	0.41	U	56.7	56.3		ug/Kg	☼	99	79 - 120	2	20
Vinyl chloride	0.45	U	56.7	55.1		ug/Kg	☼	97	71 - 120	3	20
Xylenes, Total	0.89	U	113	111		ug/Kg	☼	98	80 - 120	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*67 - 132*
4-Bromofluorobenzene (Surr)	*109*		*59 - 150*
Dibromofluoromethane (Surr)	*88*		*53 - 143*
Toluene-d8 (Surr)	*86*		*74 - 135*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-316018/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 316934 — **Prep Batch: 316018**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	33	U	330	33	ug/Kg		06/30/17 14:38	07/11/17 20:45	1
2,4-Dichlorophenol	33	U	330	33	ug/Kg		06/30/17 14:38	07/11/17 20:45	1
2-Methylphenol	33	U	330	33	ug/Kg		06/30/17 14:38	07/11/17 20:45	1
2-Nitrophenol	33	U	330	33	ug/Kg		06/30/17 14:38	07/11/17 20:45	1
3 & 4 Methylphenol	67	U	660	67	ug/Kg		06/30/17 14:38	07/11/17 20:45	1
Bis(2-ethylhexyl) phthalate	45	U	330	45	ug/Kg		06/30/17 14:38	07/11/17 20:45	1
Naphthalene	33	U	330	33	ug/Kg		06/30/17 14:38	07/11/17 20:45	1
Pentachlorophenol	330	U	1600	330	ug/Kg		06/30/17 14:38	07/11/17 20:45	1
Phenol	33	U	330	33	ug/Kg		06/30/17 14:38	07/11/17 20:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-316018/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 316934 — **Prep Batch: 316018**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		47 - 125	06/30/17 14:38	07/11/17 20:45	1
2-Fluorobiphenyl (Surr)	79		59 - 110	06/30/17 14:38	07/11/17 20:45	1
2-Fluorophenol (Surr)	73		54 - 102	06/30/17 14:38	07/11/17 20:45	1
Nitrobenzene-d5 (Surr)	76		44 - 120	06/30/17 14:38	07/11/17 20:45	1
Phenol-d5 (Surr)	71		51 - 104	06/30/17 14:38	07/11/17 20:45	1
Terphenyl-d14 (Surr)	91		59 - 98	06/30/17 14:38	07/11/17 20:45	1

Lab Sample ID: LCS 160-316018/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 316934 — **Prep Batch: 316018**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	3330	2410		ug/Kg		72	56 - 98
2,4-Dichlorophenol	3330	2440		ug/Kg		73	57 - 99
2-Methylphenol	3330	2350		ug/Kg		70	53 - 97
2-Nitrophenol	3330	2550		ug/Kg		77	59 - 104
3 & 4 Methylphenol	3330	2630		ug/Kg		79	58 - 108
Bis(2-ethylhexyl) phthalate	3330	2680		ug/Kg		80	59 - 113
Naphthalene	3330	2530		ug/Kg		76	57 - 98
Pentachlorophenol	3330	1820		ug/Kg		55	35 - 107
Phenol	3330	2390		ug/Kg		72	50 - 96

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		47 - 125
2-Fluorobiphenyl (Surr)	80		59 - 110
2-Fluorophenol (Surr)	76		54 - 102
Nitrobenzene-d5 (Surr)	75		44 - 120
Phenol-d5 (Surr)	72		51 - 104
Terphenyl-d14 (Surr)	85		59 - 98

Lab Sample ID: 160-23014-2 MS — **Client Sample ID: B3BB64**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 316934 — **Prep Batch: 316018**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	36	U	3600	2540		ug/Kg	☼	71	50 - 96
2,4-Dichlorophenol	36	U	3600	2780		ug/Kg	☼	77	47 - 104
2-Methylphenol	36	U	3600	2650		ug/Kg	☼	74	46 - 98
2-Nitrophenol	36	U	3600	2820		ug/Kg	☼	78	38 - 115
3 & 4 Methylphenol	72	U	3600	2970		ug/Kg	☼	83	48 - 111
Bis(2-ethylhexyl) phthalate	49	U	3600	3140		ug/Kg	☼	87	50 - 113
Naphthalene	36	U	3600	2740		ug/Kg	☼	76	54 - 98
Pentachlorophenol	350	U	3600	1910		ug/Kg	☼	53	23 - 116
Phenol	36	U	3600	2630		ug/Kg	☼	73	41 - 100

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	83		47 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-23014-2 MS — **Client Sample ID: B3BB64**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 316934 — **Prep Batch: 316018**

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	79		59 - 110
2-Fluorophenol (Surr)	77		54 - 102
Nitrobenzene-d5 (Surr)	75		44 - 120
Phenol-d5 (Surr)	74		51 - 104
Terphenyl-d14 (Surr)	93		59 - 98

Lab Sample ID: 160-23014-2 MSD — **Client Sample ID: B3BB64**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 316934 — **Prep Batch: 316018**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	36	U	3600	2570		ug/Kg	☼	71	50 - 96	1	30
2,4-Dichlorophenol	36	U	3600	2850		ug/Kg	☼	79	47 - 104	2	30
2-Methylphenol	36	U	3600	2720		ug/Kg	☼	76	46 - 98	3	30
2-Nitrophenol	36	U	3600	2970		ug/Kg	☼	83	38 - 115	5	30
3 & 4 Methylphenol	72	U	3600	3060		ug/Kg	☼	85	48 - 111	3	30
Bis(2-ethylhexyl) phthalate	49	U	3600	3210		ug/Kg	☼	89	50 - 113	2	30
Naphthalene	36	U	3600	2840		ug/Kg	☼	79	54 - 98	4	30
Pentachlorophenol	350	U	3600	2080		ug/Kg	☼	58	23 - 116	8	30
Phenol	36	U	3600	2700		ug/Kg	☼	75	41 - 100	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		47 - 125
2-Fluorobiphenyl (Surr)	83		59 - 110
2-Fluorophenol (Surr)	81		54 - 102
Nitrobenzene-d5 (Surr)	80		44 - 120
Phenol-d5 (Surr)	76		51 - 104
Terphenyl-d14 (Surr)	93		59 - 98

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-315492/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 316283 — **Prep Batch: 315492**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	U	0.96	0.24	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Arsenic	0.24	U	0.96	0.24	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Barium	1.4	U	4.8	1.4	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Cadmium	0.14	U	0.48	0.14	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Calcium	72.2	U	241	72.2	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Chromium	0.24	U	0.96	0.24	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Cobalt	1.4	U	4.8	1.4	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Copper	0.72	U	2.4	0.72	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Iron	2.4	U	9.6	2.4	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Lead	0.24	U	0.96	0.24	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Magnesium	24.1	U	96.3	24.1	mg/Kg		06/27/17 09:47	07/05/17 08:58	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 160-315492/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 316283 — **Prep Batch: 315492**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24	U	0.96	0.24	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Nickel	0.96	U	3.9	0.96	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Potassium	144	U	481	144	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Selenium	0.24	U	1.4	0.24	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Silver	0.24	U	0.96	0.24	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Sodium	24.1	U	96.3	24.1	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Vanadium	1.4	U	4.8	1.4	mg/Kg		06/27/17 09:47	07/05/17 08:58	1
Zinc	1.4	U	4.8	1.4	mg/Kg		06/27/17 09:47	07/05/17 08:58	1

Lab Sample ID: LCSSRM 160-315492/2-A ^2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 316283 — **Prep Batch: 315492**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	123	70.39	D	mg/Kg		57.2	19.9 - 252.0
Arsenic	145	120.1	D	mg/Kg		82.8	70.3 - 136.6
Barium	209	163.2	D	mg/Kg		78.1	73.7 - 126.8
Cadmium	87.6	73.54	D	mg/Kg		84.0	73.3 - 126.7
Calcium	5690	4846	D	mg/Kg		85.2	73.5 - 126.5
Chromium	143	122.1	D	mg/Kg		85.4	69.9 - 129.4
Cobalt	154	138.2	D	mg/Kg		89.7	74.0 - 125.3
Copper	173	144.7	D	mg/Kg		83.7	75.1 - 124.3
Iron	15000	10970	D	mg/Kg		73.1	37.1 - 163.3
Lead	146	126.3	D	mg/Kg		86.5	73.3 - 126.7
Magnesium	2640	1983	D	mg/Kg		75.1	64.4 - 136.0
Manganese	309	262.3	D	mg/Kg		84.9	74.8 - 125.2
Nickel	129	116.4	D	mg/Kg		90.3	73.0 - 127.1
Potassium	2400	1788	D	mg/Kg		74.5	60.4 - 140.0
Selenium	178	152.5	D	mg/Kg		85.7	68.0 - 131.5
Silver	31.3	25.36	D	mg/Kg		81.0	65.2 - 134.5
Sodium	869	696.5	D	mg/Kg		80.2	58.6 - 141.5
Vanadium	115	91.12	D	mg/Kg		79.2	67.5 - 132.2
Zinc	194	167.5	D	mg/Kg		86.3	69.6 - 130.4

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 160-23014-2 MS **Client Sample ID: B3BB64**
Matrix: Soil **Prep Type: Total/NA**
Analysis Batch: 316283 **Prep Batch: 315492**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.3	B D N	49.6	25.80	D N	mg/Kg	☼	49	75 - 125
Arsenic	2.5	D	99.3	83.64	D	mg/Kg	☼	82	75 - 125
Barium	71.3	D	99.3	152.9	D	mg/Kg	☼	82	75 - 125
Cadmium	0.31	U D	99.2	83.11	D	mg/Kg	☼	84	75 - 125
Calcium	5250	D	993	7040	D X	mg/Kg	☼	180	75 - 125
Chromium	9.9	D	99.3	97.42	D	mg/Kg	☼	88	75 - 125
Cobalt	10.7	D	99.3	96.23	D	mg/Kg	☼	86	75 - 125
Copper	11.0	D	99.3	93.12	D	mg/Kg	☼	83	75 - 125
Iron	17600	D	993	20000	D X	mg/Kg	☼	237	75 - 125
Lead	5.1	D	99.3	89.00	D	mg/Kg	☼	85	75 - 125
Magnesium	3540	D N	993	4861	D N	mg/Kg	☼	133	75 - 125
Manganese	284	D	99.3	383.9	D	mg/Kg	☼	101	75 - 125
Nickel	10.6	D	99.3	95.44	D	mg/Kg	☼	85	75 - 125
Potassium	1300	D	993	2286	D	mg/Kg	☼	99	75 - 125
Selenium	0.51	U D	49.6	42.36	D	mg/Kg	☼	85	75 - 125
Silver	0.51	U D	19.9	17.04	D	mg/Kg	☼	86	75 - 125
Sodium	179	B D	993	1134	D	mg/Kg	☼	96	75 - 125
Vanadium	43.6	D	99.3	126.4	D	mg/Kg	☼	83	75 - 125
Zinc	40.5	D	99.3	127.7	D	mg/Kg	☼	88	75 - 125

Lab Sample ID: 160-23014-2 MSD **Client Sample ID: B3BB64**
Matrix: Soil **Prep Type: Total/NA**
Analysis Batch: 316283 **Prep Batch: 315492**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.3	B D N	46.4	22.97	D N	mg/Kg	☼	47	75 - 125	12	30
Arsenic	2.5	D	92.9	78.69	D	mg/Kg	☼	82	75 - 125	6	30
Barium	71.3	D	92.9	153.5	D	mg/Kg	☼	89	75 - 125	0	30
Cadmium	0.31	U D	92.8	78.44	D	mg/Kg	☼	85	75 - 125	6	30
Calcium	5250	D	929	6871	D X	mg/Kg	☼	174	75 - 125	2	30
Chromium	9.9	D	92.9	91.35	D	mg/Kg	☼	88	75 - 125	6	30
Cobalt	10.7	D	92.9	91.63	D	mg/Kg	☼	87	75 - 125	5	30
Copper	11.0	D	92.9	88.69	D	mg/Kg	☼	84	75 - 125	5	30
Iron	17600	D	929	19820	D X	mg/Kg	☼	234	75 - 125	1	30
Lead	5.1	D	92.9	84.15	D	mg/Kg	☼	85	75 - 125	6	30
Magnesium	3540	D N	929	4919	D N	mg/Kg	☼	149	75 - 125	1	30
Manganese	284	D	92.9	393.3	D	mg/Kg	☼	118	75 - 125	2	30
Nickel	10.6	D	92.9	90.38	D	mg/Kg	☼	86	75 - 125	5	30
Potassium	1300	D	929	2325	D	mg/Kg	☼	110	75 - 125	2	30
Selenium	0.51	U D	46.4	40.02	D	mg/Kg	☼	86	75 - 125	6	30
Silver	0.51	U D	18.6	16.23	D	mg/Kg	☼	87	75 - 125	5	30
Sodium	179	B D	929	1104	D	mg/Kg	☼	100	75 - 125	3	30
Vanadium	43.6	D	92.9	121.0	D	mg/Kg	☼	83	75 - 125	4	30
Zinc	40.5	D	92.9	122.6	D	mg/Kg	☼	89	75 - 125	4	30

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-315493/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 315788 — **Prep Batch: 315493**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.039	U D	0.096	0.039	mg/Kg		06/27/17 09:48	06/28/17 19:31	2

Lab Sample ID: LCS 160-315493/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 315788 — **Prep Batch: 315493**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	94.6	94.40	D	mg/Kg		100	80 - 120

Lab Sample ID: 160-23014-2 MS — **Client Sample ID: B3BB64**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 315788 — **Prep Batch: 315493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	0.45	D	99.3	99.90	D	mg/Kg	☼	100	75 - 125

Lab Sample ID: 160-23014-2 MSD — **Client Sample ID: B3BB64**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 315788 — **Prep Batch: 315493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	0.45	D	92.9	94.16	D	mg/Kg	☼	101	75 - 125	6	30

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 160-315551/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 315669 — **Prep Batch: 315551**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11	U	0.50	0.11	mg/Kg		06/27/17 17:00	06/28/17 10:37	1

Lab Sample ID: HLCS 160-315551/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 315669 — **Prep Batch: 315551**

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	4.80	4.69		mg/Kg		98	85 - 115

Lab Sample ID: LCS 160-315551/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 315669 — **Prep Batch: 315551**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.48		mg/Kg		103	85 - 115

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 160-22882-F-2-L MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 315669 — **Prep Batch: 315551**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.19	B	2.51	2.77		mg/Kg	☼	103	60 - 130		

Lab Sample ID: 160-22882-F-2-K DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 315669 — **Prep Batch: 315551**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.19	B		0.185	B	mg/Kg	☼			4	30

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-042

TestAmerica Job ID: 160-23014-1
SDG: SL2575

GC/MS VOA

Analysis Batch: 316311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-1	B3BB65	Total/NA	Soil	8260C	316312
160-23014-2	B3BB64	Total/NA	Soil	8260C	316312
MB 160-316312/1-A	Method Blank	Total/NA	Solid	8260C	316312
LCS 160-316312/2-A	Lab Control Sample	Total/NA	Solid	8260C	316312
LCSD 160-316312/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	316312
160-23014-2 MS	B3BB64	Total/NA	Soil	8260C	316312
160-23014-2 MSD	B3BB64	Total/NA	Soil	8260C	316312

Prep Batch: 316312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-1	B3BB65	Total/NA	Soil	5035	
160-23014-2	B3BB64	Total/NA	Soil	5035	
MB 160-316312/1-A	Method Blank	Total/NA	Solid	5035	
LCS 160-316312/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 160-316312/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
160-23014-2 MS	B3BB64	Total/NA	Soil	5035	
160-23014-2 MSD	B3BB64	Total/NA	Soil	5035	

GC/MS Semi VOA

Prep Batch: 316018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-2	B3BB64	Total/NA	Soil	3550C	
MB 160-316018/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 160-316018/2-A	Lab Control Sample	Total/NA	Solid	3550C	
160-23014-2 MS	B3BB64	Total/NA	Soil	3550C	
160-23014-2 MSD	B3BB64	Total/NA	Soil	3550C	

Analysis Batch: 316934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-2	B3BB64	Total/NA	Soil	8270D	316018
MB 160-316018/1-A	Method Blank	Total/NA	Solid	8270D	316018
LCS 160-316018/2-A	Lab Control Sample	Total/NA	Solid	8270D	316018
160-23014-2 MS	B3BB64	Total/NA	Soil	8270D	316018
160-23014-2 MSD	B3BB64	Total/NA	Soil	8270D	316018

Metals

Prep Batch: 315492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-2	B3BB64	Total/NA	Soil	3050B	
MB 160-315492/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-315492/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
160-23014-2 MS	B3BB64	Total/NA	Soil	3050B	
160-23014-2 MSD	B3BB64	Total/NA	Soil	3050B	

Prep Batch: 315493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-2	B3BB64	Total/NA	Soil	3050B	
MB 160-315493/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 315493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-315493/2-A	Lab Control Sample	Total/NA	Solid	3050B	
160-23014-2 MS	B3BB64	Total/NA	Soil	3050B	
160-23014-2 MSD	B3BB64	Total/NA	Soil	3050B	

Analysis Batch: 315788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-2	B3BB64	Total/NA	Soil	6020A	315493
MB 160-315493/1-A	Method Blank	Total/NA	Solid	6020A	315493
LCS 160-315493/2-A	Lab Control Sample	Total/NA	Solid	6020A	315493
160-23014-2 MS	B3BB64	Total/NA	Soil	6020A	315493
160-23014-2 MSD	B3BB64	Total/NA	Soil	6020A	315493

Analysis Batch: 316283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-2	B3BB64	Total/NA	Soil	6010C	315492
MB 160-315492/1-A	Method Blank	Total/NA	Solid	6010C	315492
LCSSRM 160-315492/2-A ^2	Lab Control Sample	Total/NA	Solid	6010C	315492
160-23014-2 MS	B3BB64	Total/NA	Soil	6010C	315492
160-23014-2 MSD	B3BB64	Total/NA	Soil	6010C	315492

General Chemistry

Analysis Batch: 315381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-1	B3BB65	Total/NA	Soil	Moisture	
160-23014-2	B3BB64	Total/NA	Soil	Moisture	
160-22963-C-1 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 315551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-2	B3BB64	Total/NA	Soil	9010C	
MB 160-315551/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 160-315551/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 160-315551/2-A	Lab Control Sample	Total/NA	Solid	9010C	
160-22882-F-2-L MS	Matrix Spike	Total/NA	Solid	9010C	
160-22882-F-2-K DU	Duplicate	Total/NA	Solid	9010C	

Analysis Batch: 315669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-23014-2	B3BB64	Total/NA	Soil	9012B	315551
MB 160-315551/1-A	Method Blank	Total/NA	Solid	9012B	315551
HLCS 160-315551/3-A	Lab Control Sample	Total/NA	Solid	9012B	315551
LCS 160-315551/2-A	Lab Control Sample	Total/NA	Solid	9012B	315551
160-22882-F-2-L MS	Matrix Spike	Total/NA	Solid	9012B	315551
160-22882-F-2-K DU	Duplicate	Total/NA	Solid	9012B	315551

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-042

TestAmerica Job ID: 160-23014-1
SDG: SL2575

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Soil **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(67-132)	(59-150)	(53-143)	(74-135)
160-23014-1	B3BB65	109	94	107	94
160-23014-2	B3BB64	86	93	88	76
160-23014-2 MS	B3BB64	96	120	96	93
160-23014-2 MSD	B3BB64	87	109	88	86

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(67-132)	(59-150)	(53-143)	(74-135)
LCS 160-316312/2-A	Lab Control Sample	87	103	89	86
LCSD 160-316312/3-A	Lab Control Sample Dup	87	105	89	88
MB 160-316312/1-A	Method Blank	92	99	92	83

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Soil **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(47-125)	(59-110)	(54-102)	(44-120)	(51-104)	(59-98)
160-23014-2	B3BB64	62	67	65	64	61	80
160-23014-2 MS	B3BB64	83	79	77	75	74	93
160-23014-2 MSD	B3BB64	85	83	81	80	76	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-042

TestAmerica Job ID: 160-23014-1
SDG: SL2575

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	**Client Sample ID**	(47-125)	(59-110)	(54-102)	(44-120)	(51-104)	(59-98)
LCS 160-316018/2-A	Lab Control Sample	78	80	76	75	72	85
MB 160-316018/1-A	Method Blank	60	79	73	76	71	91

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)