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: 160-27290-1
TestAmerica Sample Delivery Group: SL2820
Client Project/Site: F17-062

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

Attn: Mr. Scot Fitzgerald

Authorized for release by:
4/13/2018 4:31:58 PM

Jayna Awalt, Project Manager II
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LINKS

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Have a Question? Ask The Expert

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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.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Chain of Custody 7
Definitions/Glossary 30
Method Summary 32
Sample Summary 33
Client Sample Results 34
QC Sample Results 54
QC Association Summary 63
Surrogate Summary 72

Job ID: 160-27290-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
April 13, 2018
Attention: Scot Fitzgerald

SDG	: SL2820
Number of Samples	: 19 samples
Sample Matrix	: Soil
Data Deliverable	: Summary
Date SDG Closed	: March 14, 2018

II. Introduction

On March 13 and 14, 19 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: F17-062

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: 160-27290-1 (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 above the MDL/RL and Method Blank is greater than 5% of the sample concentration.
- **B** - For inorganics and radiochemistry, Method Blank reported above the MDC/MDL.
- **J** - For organic analyses, the sample is estimated and less than the RL. If on Method Blank, indicates Method Blank contamination.
- **C** - For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL/RL and Method Blank concentration is greater than 5% of the sample concentration.
- **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.

Semivolatiles

Batch: 356874

The surrogate Terphenyl-d14 recovered outside of upper control limits in: B3H226 (160-27290-1), B3H212 (160-27290-4), B3H1Y1 (160-27321-4), B3H206 (160-27321-5), B3H209 (160-27321-6), B3H215 (160-27321-7), B3H229 (160-27321-8), B3H232 (160-27321-9), B3H235 (160-27321-10), B3H245 (160-27321-11), (LCS 160-356750/2-A) and (MB 160-356750/1-A). The surrogate is not associated with the target analyte Tributyl phosphate; therefore, this excursion has no bearing on the data and the data are reported.

ICPMS Metals

Batch: 357472

Due to the high concentration of Aluminum and Manganese (MSD), the matrix spike / matrix spike duplicate (MS/MSD) could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. This analyte has been qualified "X" in the MS/MSD.

The matrix spike (MS) recovery was outside control limits for Manganese. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. This analyte has been qualified accordingly with an "N"

Job ID: 160-27290-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

flag in the associated samples.

The following samples were diluted due to the abundance of non-target analytes. Samples are high in salts which can cause instrument and QC failures when ran at a lesser dilution: B3H226 (160-27290-1), B3H1X9 (160-27290-2), B3H212 (160-27290-4), (160-27290-E-1-B MS), (160-27290-E-1-C MSD) and (160-27290-E-1-A SD). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Batch: 358497

The following samples were diluted due to the abundance of non-target analytes. Samples are high in salts which can cause instrument and QC failures when ran at a lesser dilution: B3H226 (160-27290-1), B3H1X9 (160-27290-2), B3H212 (160-27290-4), (160-27290-E-1-E MS), (160-27290-E-1-F MSD) and (160-27290-E-1-D SD). Elevated reporting limits (RLs) are provided. This analyte has been qualified accordingly with a "D" flag in the associated samples.

Batch: 357881

Aluminum and Manganese were detected in method blank MB 160-356429/1-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 “B”. If the associated sample reported a result above the MDL and/or RL and MB is greater than 5% the sample concentration, the result has been flagged “C”.

The following samples were diluted due to the abundance of non-target analytes. Samples are high in salts which can cause instrument and QC failures when ran at a lesser dilution: B3H1X0 (160-27321-1), B3H1X3 (160-27321-2), B3H1X6 (160-27321-3), B3H1Y1 (160-27321-4), B3H206 (160-27321-5), B3H209 (160-27321-6), B3H215 (160-27321-7), B3H229 (160-27321-8), B3H232 (160-27321-9), B3H235 (160-27321-10), B3H248 (160-27321-12), B3H251 (160-27321-13), B3H254 (160-27321-14), B3H257 (160-27321-15), (160-27321-B-1-C MS), (160-27321-B-1-D MSD) and (160-27321-B-1-B SD). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Due to the high concentration of Aluminum, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-356429 and analytical batch 160-357881 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-27321-B-1-C MS) and (160-27321-B-1-D MSD) This analyte has been qualified accordingly with an "X" flag in the associated MS/MSD.

The matrix spike duplicate (MSD) recovery for preparation batch 160-356429 and analytical batch 160-357881 was outside control limits for Manganese. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits(160-27321-B-1-D MSD) This analyte has been qualified accordingly with an "N" flag in the associated samples.

Batch: 358564

The following samples were diluted due to the abundance of non-target analytes. Samples are high in salts which can cause instrument and QC failures when ran at a lesser dilution: B3H1X0 (160-27321-1), B3H1X3 (160-27321-2), B3H1X6 (160-27321-3), B3H1Y1 (160-27321-4), B3H206 (160-27321-5), B3H209 (160-27321-6), B3H215 (160-27321-7), B3H229 (160-27321-8), B3H232 (160-27321-9), B3H235 (160-27321-10), B3H248 (160-27321-12), B3H251 (160-27321-13), B3H254 (160-27321-14), B3H257 (160-27321-15), (160-27321-B-1-F MS), (160-27321-B-1-G MSD) and (160-27321-B-1-E SD). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Total Cyanide

Batch: 357248

The following matrix spike (MS) recovery for Cyanide preparation batch 160-356925 and analytical batch 160-357248 was outside control limits: (160-27321-B-15-B MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. This analyte has been qualified accordingly with an "N" flag in the associated samples.

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

Job ID: 160-27290-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

WTPH Diesel
Ammonia as N

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: 160-27290-1
SDG Number: SL2820

Login Number: 27290
List Number: 1
Creator: Clarke, Jill C

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	0.3
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	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-062-573	PAGE 1 OF 1

COLLECTOR Tim Callaway /CHPRC 7/6/65	**COMPANY CONTACT** FITZGERALD, SL	**TELEPHONE NO.** 373-7495	**PROJECT COORDINATOR** FITZGERALD, SL	**REQUIRED TAT** 30 Days
SAMPLING LOCATION C9863, Shallow Sample 1 SL2820	**PROJECT DESIGNATION** 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		**SAF NO.** F17-062	ORIGINAL
ICE CHEST NO. GWS-579	**FIELD LOGBOOK NO.** ~~HNF-N-~~ 645-12/16	**ACTUAL SAMPLE DEPTH** 2.2 to 4.6 RT	**PURCHASE ORDER/CHARGE CODE** 303971	**METHOD OF SHIPMENT** FEDERAL EXPRESS
SHIPPED TO TestAmerica St. Louis	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** 7800 0541 4381	

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: B3H224~~

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H226	N/A	SOIL	MAR 12 2018	1122	✓	✓	✓	✓	✓

MAR 12 2018 Tim Callaway /CHPRC

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC T. Callaway	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke 3-13-18 0940	

SPECIAL INSTRUCTIONS
TRVL-18-026
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54197 TRVL NUM = TRVL-18-026 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-540	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9861, Shallow Sample 4 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-579	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12-/16	ACTUAL SAMPLE DEPTH: 8.15' to 10.0' KT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: NH		BILL OF LADING/AIR BILL NO.: 7800 0541 4381		

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: B3H1X7~~ Tim Callaway /CHPRC
MAR 1 2 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H1X9	N/A	SOIL	MAR 1 2 2018	0945	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 1 2 2018 1220	CHRIS FULTON CHPRC	MAR 1 2 2018 1220
CHRIS FULTON CHPRC	MAR 1 2 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	3-13-18 0940

SPECIAL INSTRUCTIONS
TRVL-18-024
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54173 TRVL NUM = TRVL-18-024 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-584	PAGE 1 OF 1
COLLECTOR: Tim Calloway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9863, Shallow Sample 4 FTB SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GW5-579	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12/14	ACTUAL SAMPLE DEPTH: (N/A)	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 7800 0541 4381		

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
N/A

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME						
33H237	N/A	SOIL	MAR 12 2018	1115	✓	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Calloway /CHPRC T. Calloway	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke	3.13.18 0940

SPECIAL INSTRUCTIONS
TRVL-18-026
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54198 TRVL NUM = TRVL-18-026 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-559	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9862, Shallow Sample.3 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-579	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12/16	ACTUAL SAMPLE DEPTH: 6.4 to 8.0 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: NA		BILL OF LADING/AIR BILL NO.: 7800 0541 4381		

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 TIF TO: B3H210

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H212	N/A	SOIL	MAR 12 2018	10:27	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1300	~~FEDEX~~ FEDEX	
FED EX		Jill Clarke	3.13.18 0940

SPECIAL INSTRUCTIONS
TRVL-18-025
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54185 TRVL NUM = TRVL-18-025 A-6003-618 (REV 3)

IMPORTANT!
FedEx is closely monitoring the winter storms across the Northeastern region of the U.S. Learn More

FedEx ® Tracking

780005414381

Ship date:		Actual delivery:
Mon 3/12/2018		**Tue 3/13/2018 9:19 am**
Richland, WA US	**Delivered** *Signed for by: B.DANIELS*	EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
▪ 3/13/2018 - Tuesday		
9:19 am	Delivered	EARTH CITY, MO
7:30 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:23 am	At local FedEx facility	EARTH CITY, MO
5:29 am	At destination sort facility	BERKELEY, MO
4:43 am	Departed FedEx location	MEMPHIS, TN
12:08 am	Arrived at FedEx location	MEMPHIS, TN
▪ 3/12/2018 - Monday		
4:49 pm	Left FedEx origin facility	PASCO, WA
3:15 pm	Picked up	PASCO, WA
3:02 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	780005414381	**Service**	FedEx Standard Overnight
Weight	76 lbs / 34.47 kgs	**Dimensions**	29x16x15 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	76 lbs / 34.47 kgs	**Terms**	Recipient
Shipper reference	GWS-579	**Packaging**	Your Packaging
Special handling section	Deliver Weekday, Additional Handling Surcharge	**Standard transit**	3/13/2018 by 3:00 pm

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-27321-1
SDG Number: SL2820

Login Number: 27321
List Number: 1
Creator: Daniels, Brian J

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	0.6
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	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-531	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL		REQUIRED TAT: 30 Days
SAMPLING LOCATION: C9861, Shallow Sample 1 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12/16	ACTUAL SAMPLE DEPTH: 2.0 to 4.0 ft	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1202		

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: B3H1W8~~
MAR 1 2 2018 Ed Kauer CHPRC

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H1X0	N/A	SOIL	MAR 1 2 2018	0930	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 1 2 2018 1220	CHRIS FULTON CHPRC	MAR 1 2 2018 1220
CHRIS FULTON CHPRC	MAR 1 2 2018 1300	SSU-1	MAR 1 2 2018 1300
SSU-1	MAR 1 3 2018 0750	Troy Bacon CHPRC	MAR 1 3 2018 0750
Troy Bacon CHPRC	MAR 1 3 2018 1400	FEDEX	
FED EX		Brian Daniels	3/14/18 0901

SPECIAL INSTRUCTIONS
TRVL-18-024
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54178 TRVL NUM = TRVL-18-024 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-534	PAGE 1 OF 1
COLLECTOR: Tim Calloway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL		REQUIRED TAT: 30 Days
SAMPLING LOCATION: C9861, Shallow Sample 2 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12/14	ACTUAL SAMPLE DEPTH: Ft	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 24531 202		

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 FILE TO: B3H1X1~~
Ed Kauer CHPRC MAR 12 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H1X3	N/A	SOIL	MAR 12 2018	0935	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Calloway /CHPRC	MAR 12 2018 1225	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1300	SSU-1	MAR 12 2018 1300
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC	MAR 13 2018 0750
Troy Bacon CHPRC	MAR 13 2018 1400	FEDEX	
FED EX		Brian Davis	3/14/18 0905

SPECIAL INSTRUCTIONS
TRVL-18-024
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54179 TRVL NUM = TRVL-18-024 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-537	PAGE 1 OF 1
COLLECTOR: Tim Calloway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL		REQUIRED TAT: 30 Days
SAMPLING LOCATION: C9861, Shallow Sample 3 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062		ORIGINAL
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12/16	ACTUAL SAMPLE DEPTH: 6.5 to 8.15 FT	PURCHASE ORDER/CHARGE CODE: 303971		METHOD OF SHIPMENT: FEDERAL EXPRESS
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 24531 202		

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: B3H1X4~~
Ed Kauer CHPRC MAR 12 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H1X6	N/A	SOIL	MAR 12 2018	0940	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Calloway /CHPRC T. Calloway	MAR 12 2018 1225	CHRIS FULTON CHPRC	MAR 12 2018 1330
CHRIS FULTON CHPRC	MAR 12 2018 1300	SSU-1	MAR 12 2018 1300
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC Troy L. Bacon	MAR 13 2018 0750
Troy Bacon CHPRC Troy L. Bacon	MAR 13 2018 1400	FEDEX	
FED EX		Brian Daniels	3/14/18 0905

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-024
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54180 TRVL NUM = TRVL-18-024 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-542	PAGE 1 OF 1
COLLECTOR: Tim Calloway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9861, Shallow Sample ~~#~~ - DUP SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526 on 3/12/18	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12/16	ACTUAL SAMPLE DEPTH: 2.0 - 4.0 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 24531 202		

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
~~N/A~~ ~~MAR 12/17 Radioactive~~
~~Lab to B3H1X7~~ MAR 12 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H1Y1	N/A	SOIL	MAR 12 2018	0930	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Calloway /CHPRC T. Calloway	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1300	SSU-1	MAR 12 2018 1300
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC Troy L. Bacon	MAR 13 2018 0750
Troy Bacon CHPRC Troy L. Bacon	MAR 13 2018 1400	FEDEX	
	FED EX	Brian Daniels	3/14/18 0925

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-024
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54174 TRVL NUM = TRVL-18-024 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-553	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9862, Shallow Sample 1 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12/16	ACTUAL SAMPLE DEPTH: 2.0 to 4.0 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1202		

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: B3H204~~
Troy L. Bacon 3-13-18

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H206	N/A	SOIL	MAR 12 2018	1017	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1300	SSU-1	MAR 12 2018 1300
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC	MAR 13 2018 0750
Troy Bacon CHPRC	MAR 13 2018 1400	FEDEX	
FED EX		Brian David B	3/14/18 0901

SPECIAL INSTRUCTIONS
TRVL-18-025
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54183 TRVL NUM = TRVL-18-025 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-556	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9862, Shallow Sample 2 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N-~~ 645-12/16	ACTUAL SAMPLE DEPTH: 4.3 to 6.4 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7900 24531 202		

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: B3H207~~
Troy L. Bacon 3-13-18

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H209	N/A	SOIL	MAR 12 2018	1021	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1300	SSU-1	MAR 12 2018 1300
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC	MAR 13 2018 0750
Troy Bacon CHPRC	MAR 13 2018 1400	FEDEX	
FED EX			

SPECIAL INSTRUCTIONS
TRVL-18-025
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54184 TRVL NUM = TRVL-18-025 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	13 LBS	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F17-062-562	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9862, Shallow Sample 4 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12/16	ACTUAL SAMPLE DEPTH: 8.0 to 10.1 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1203		

MATRIX*
A=Air
DI.=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: B3H213~~
Troy L. Bacon 3-13-18

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H215	N/A	SOIL	MAR 12 2018	1052	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC T. Callaway	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1300
CHRIS FULTON CHPRC	MAR 12 2018 1300	SSU-1	MAR 12 2018 1300
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC Troy L. Bacon	MAR 13 2018 0750
Troy Bacon CHPRC Troy L. Bacon	MAR 13 2018 1400	FEDEX	
FED EX		Brian Davis	3/14/18 0905

SPECIAL INSTRUCTIONS
TRVL-18-025
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54186 TRVL NUM = TRVL-18-025 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-576	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9863, Shallow Sample 2 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N-~~ 645-12/14	ACTUAL SAMPLE DEPTH: 4.6 to 6.4 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1203		

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: B3H227~~
MAR 12 2018 Ed Kauer CHPRC

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H229	N/A	SOIL	MAR 12 2018	1127	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1300	SSU-1	MAR 12 2018 1300
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC	MAR 13 2018 0750
Troy Bacon CHPRC	MAR 13 2018 1400	FEDEX	
FED EX			3/14/18 0905

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-026
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54191 TRVL NUM = TRVL-18-026 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-579	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9863, Shallow Sample 3 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N-~~ 645-12/16	ACTUAL SAMPLE DEPTH: 6.4 to 8.4 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1202		

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: B3H230~~
Ed Kauer CHPRC Mar 12 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H232	N/A	SOIL	MAR 12 2018	1134	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1300	SSU-1	MAR 12 2018 1300
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC	MAR 13 2018 0750
Troy Bacon CHPRC	MAR 13 2018 1400	FEDEX	
FED EX			3/14/18 0905

SPECIAL INSTRUCTIONS
TRVL-18-026
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54192 TRVL NUM = TRVL-18-026 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-062-582	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	REQUIRED TAT
Tim Callaway /CHPRC	FITZGERALD, SL	373-7495	FITZGERALD, SL	30 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.	
C9863, Shallow Sample 4 SL2820	200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017	F17-062	ORIGINAL

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	PURCHASE ORDER/CHARGE CODE	METHOD OF SHIPMENT
GWS-526	~~HNF-N-~~ 645-12/14	8.0 to 10.0 FT	303971	FEDERAL EXPRESS

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
TestAmerica St. Louis	9156	7800 2453 1202

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: B3H235~~
Ed Kauer CHPRC
MAR 1 2 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H235	N/A	SOIL	MAR 1 2 2018	1135	✓	✓	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
~~Tim Callaway~~ /CHPRC	MAR 1 2 2018 1220	CHRIS FULTON CHPRC	MAR 1 2 2018 1200
CHRIS FULTON CHPRC	MAR 1 2 2018 1300	~~I-DSS~~ SSU-1	MAR 1 2 2018 1300
SSU-1	MAR 1 3 2018 0750	Troy Bacon CHPRC	MAR 1 3 2018 0750
Troy Bacon CHPRC	MAR 1 3 2018 1400	FEDEX	
FED EX			3/14/18 0905

SPECIAL INSTRUCTIONS
TRVL-18-026
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54193 TRVL NUM = TRVL-18-026 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-592	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9863, Optional 3 - EB SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: HNF-N-645-72/16	ACTUAL SAMPLE DEPTH: (N/A)	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1202		

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
N/A

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3H245	N/A	SOIL	MAR 12 2018	1114	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 12 2018 1220	CHRIS FULTON CHPRC	MAR 12 2018 1220
CHRIS FULTON CHPRC	MAR 12 2018 1300	SSU-1	MAR 12 2018 1300
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC	MAR 13 2018 0750
Troy Bacon CHPRC	MAR 13 2018 1410	FEDEX	
	FED EX	Brian Davies	3/14/18 0900

SPECIAL INSTRUCTIONS
TRVL-18-026
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54201 TRVL NUM = TRVL-18-026 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-595	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9864, Shallow Sample 1 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: HNF-N-645-12/16	ACTUAL SAMPLE DEPTH: 2.2 to 4.3 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1202		

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: B3H246~~
MAR 12 2018 Ed Kauer CHPRC

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days	14 Days
TYPE OF CONTAINER	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	60mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3H248	N/A	SOIL	MAR 12 2018	1316	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 12 2018 1450	SSU-1	MAR 12 2018 1450
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC	MAR 13 2018 0750
Troy Bacon CHPRC	MAR 13 2018 1400	FEDEX	
FED EX			3/14/18 0905

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-027
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54202 TRVL NUM = TRVL-18-027 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-598	PAGE 1 OF 1
COLLECTOR: Tim Calloway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9864, Shallow Sample 2 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: HNF-N-645-12/16	ACTUAL SAMPLE DEPTH: 4.3 to 6.5 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1202		

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: B3H249~~
MAR 12 2018 Ed Kauer CHPRC

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days	14 Days
TYPE OF CONTAINER	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	60mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3H251	N/A	SOIL	MAR 12 2018	1321	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Calloway /CHPRC	MAR 12 2018 1450	SSU-1	MAR 12 2018 1450
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC	MAR 13 2018 0750
Troy Bacon CHPRC	MAR 13 2018 1400	FEDEX	
FED EX		Brian Daniels	3/14/18 0901

SPECIAL INSTRUCTIONS
TRVL-18-027
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54203 TRVL NUM = TRVL-18-027 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-601	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9864, Shallow Sample 3 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-12/16	ACTUAL SAMPLE DEPTH: 6.5 to 8.3 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1202		

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: B3H252~~
MAR 12 2018 Ed Kauer CHPRC

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days	14 Days
TYPE OF CONTAINER	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	60mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3H254	N/A	SOIL	MAR 12 2018	1325	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC T. Callaway	MAR 12 2018 1450	SSU-1	MAR 12 2018 1450
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC Troy L. Bacon	MAR 13 2018 0750
Troy Bacon CHPRC Troy L. Bacon	MAR 13 2018 1400	FEDEX	
	FED EX	Brian Daniel B. L.	3/14/18 0905

SPECIAL INSTRUCTIONS
TRVL-18-027
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54204 TRVL NUM = TRVL-18-027 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-604	PAGE 1 OF 1
COLLECTOR: Tim Callaway /CHPRC	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9864, Shallow Sample 4 SL2820	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-526	FIELD LOGBOOK NO.: ~~HNF-N-~~ 645-12/16	ACTUAL SAMPLE DEPTH: 8.3 to 10.0 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: 9156		BILL OF LADING/AIR BILL NO.: 7800 2453 1202		

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: B3H255~~
MAR 12 2018 Ed Kauer CHPRC

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days	14 Days
TYPE OF CONTAINER	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	60mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3H257	N/A	SOIL	MAR 12 2018	1329	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway /CHPRC	MAR 12 2018 1450	SSU-1	MAR 12 2018 1450
SSU-1	MAR 13 2018 0750	Troy Bacon CHPRC	MAR 13 2018 0750
Troy Bacon CHPRC	MAR 13 2018 1400	FEDEX	
FED EX		Brian Daniel B	3/14/18 0901

SPECIAL INSTRUCTIONS
TRVL-18-027
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54205 TRVL NUM = TRVL-18-027 A-6003-618 (REV 3)

IMPORTANT!
FedEx is closely monitoring the winter storms across portions of the U.S. Learn More

FedEx ® Tracking

780024531202

Ship date:		Actual delivery:
Tue 3/13/2018		**Wed 3/14/2018 8:59 am**
richland, WA US	**Delivered** *Signed for by: J.CLARKE*	EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
3/14/2018 - Wednesday		
8:59 am	Delivered	EARTH CITY, MO
7:09 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:04 am	At local FedEx facility	EARTH CITY, MO
5:29 am	At destination sort facility	BERKELEY, MO
4:44 am	Departed FedEx location	MEMPHIS, TN
12:34 am	Arrived at FedEx location	MEMPHIS, TN
3/13/2018 - Tuesday		
4:48 pm	Left FedEx origin facility	PASCO, WA
11:21 am	Picked up	PASCO, WA
10:47 am	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	780024531202	**Service**	FedEx Priority Overnight
Weight	73 lbs / 33.11 kgs	**Signature services**	Direct signature required
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	73 lbs / 33.11 kgs	**Terms**	Third Party
Shipper reference	ptr# 9156	**Packaging**	Your Packaging
Special handling section	Deliver Weekday, Additional Handling Surcharge, Direct Signature Required	**Standard transit**	3/14/2018 by 10:30 am

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	See case narrative notes for explanation of the 'X' flag
U	Analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Analyzed for but not detected.
D	The reported value is from a dilution.
N	Recovery exceeds upper or lower control limits
B	Estimated result. Result is less than the RL, but greater than MDL
X	See case narrative notes for explanation of the 'X' flag
C	The analyte was detected in both the sample and the associated QC blank, and the sample concentration was </= 5X the blank concentration.

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL
N	MS, MSD: Spike recovery is outside acceptance limits.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: F17-062

TestAmerica Job ID: 160-27290-1
SDG: SL2820

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
350.1	Nitrogen, Ammonia	MCAWW	TAL SL
9012B	Cyanide, Total andor Amenable	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: F17-062

TestAmerica Job ID: 160-27290-1
SDG: SL2820

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-27290-1	B3H226	Soil	03/12/18 11:22	03/13/18 09:40
160-27290-2	B3H1X9	Soil	03/12/18 09:45	03/13/18 09:40
160-27290-3	B3H237	Soil	03/12/18 11:15	03/13/18 09:40
160-27290-4	B3H212	Soil	03/12/18 10:27	03/13/18 09:40
160-27321-1	B3H1X0	Soil	03/12/18 09:30	03/14/18 09:05
160-27321-2	B3H1X3	Soil	03/12/18 09:35	03/14/18 09:05
160-27321-3	B3H1X6	Soil	03/12/18 09:40	03/14/18 09:05
160-27321-4	B3H1Y1	Soil	03/12/18 09:30	03/14/18 09:05
160-27321-5	B3H206	Soil	03/12/18 10:17	03/14/18 09:05
160-27321-6	B3H209	Soil	03/12/18 10:21	03/14/18 09:05
160-27321-7	B3H215	Soil	03/12/18 10:52	03/14/18 09:05
160-27321-8	B3H229	Soil	03/12/18 11:27	03/14/18 09:05
160-27321-9	B3H232	Soil	03/12/18 11:34	03/14/18 09:05
160-27321-10	B3H235	Soil	03/12/18 11:35	03/14/18 09:05
160-27321-11	B3H245	Soil	03/12/18 11:16	03/14/18 09:05
160-27321-12	B3H248	Soil	03/12/18 13:16	03/14/18 09:05
160-27321-13	B3H251	Soil	03/12/18 13:21	03/14/18 09:05
160-27321-14	B3H254	Soil	03/12/18 13:25	03/14/18 09:05
160-27321-15	B3H257	Soil	03/12/18 13:29	03/14/18 09:05

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

Client Sample ID: B3H226 — **Lab Sample ID: 160-27290-1**
Date Collected: 03/12/18 11:22 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 88.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	52	U	370	52	ug/Kg	☼	03/20/18 15:35	03/21/18 17:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*350*	*N J*	*ug/Kg*	☼	*3.61*	*141-79-7*	*03/20/18 15:35*	*03/21/18 17:48*	*1*
Unknown	*17000*	*N*	*ug/Kg*	☼	*3.98*		*03/20/18 15:35*	*03/21/18 17:48*	*1*
Unknown	*360*	*N*	*ug/Kg*	☼	*4.50*		*03/20/18 15:35*	*03/21/18 17:48*	*1*
Cycloeicosane	*810*	*N J*	*ug/Kg*	☼	*12.40*	*296-56-0*	*03/20/18 15:35*	*03/21/18 17:48*	*1*
Unknown	*170*	*N*	*ug/Kg*	☼	*12.80*		*03/20/18 15:35*	*03/21/18 17:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*47 - 125*	*03/20/18 15:35*	*03/21/18 17:48*	*1*
2-Fluorobiphenyl (Surr)	*83*		*59 - 110*	*03/20/18 15:35*	*03/21/18 17:48*	*1*
2-Fluorophenol (Surr)	*87*		*54 - 102*	*03/20/18 15:35*	*03/21/18 17:48*	*1*
Nitrobenzene-d5 (Surr)	*81*		*44 - 120*	*03/20/18 15:35*	*03/21/18 17:48*	*1*
Phenol-d5 (Surr)	*85*		*51 - 104*	*03/20/18 15:35*	*03/21/18 17:48*	*1*
Terphenyl-d14 (Surr)	*99*	*X*	*59 - 98*	*03/20/18 15:35*	*03/21/18 17:48*	*1*

Client Sample ID: B3H1X9 — **Lab Sample ID: 160-27290-2**
Date Collected: 03/12/18 09:45 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 85.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	53	U	380	53	ug/Kg	☼	03/20/18 15:35	03/21/18 18:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*370*	*N J*	*ug/Kg*	☼	*3.59*	*141-79-7*	*03/20/18 15:35*	*03/21/18 18:15*	*1*
Unknown	*14000*	*N*	*ug/Kg*	☼	*3.97*		*03/20/18 15:35*	*03/21/18 18:15*	*1*
Unknown	*350*	*N*	*ug/Kg*	☼	*4.49*		*03/20/18 15:35*	*03/21/18 18:15*	*1*
Unknown	*230*	*N*	*ug/Kg*	☼	*6.02*		*03/20/18 15:35*	*03/21/18 18:15*	*1*
Phthalic anhydride	*1300*	*N J*	*ug/Kg*	☼	*7.22*	*85-44-9*	*03/20/18 15:35*	*03/21/18 18:15*	*1*
Bromacil	*250*	*N J*	*ug/Kg*	☼	*10.24*	*314-40-9*	*03/20/18 15:35*	*03/21/18 18:15*	*1*
1-Docosanol	*1000*	*N J*	*ug/Kg*	☼	*12.38*	*661-19-8*	*03/20/18 15:35*	*03/21/18 18:15*	*1*
Unknown	*190*	*N*	*ug/Kg*	☼	*13.43*		*03/20/18 15:35*	*03/21/18 18:15*	*1*
Eicosane	*170*	*N J*	*ug/Kg*	☼	*14.70*	*112-95-8*	*03/20/18 15:35*	*03/21/18 18:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 125*	*03/20/18 15:35*	*03/21/18 18:15*	*1*
2-Fluorobiphenyl (Surr)	*75*		*59 - 110*	*03/20/18 15:35*	*03/21/18 18:15*	*1*
2-Fluorophenol (Surr)	*76*		*54 - 102*	*03/20/18 15:35*	*03/21/18 18:15*	*1*
Nitrobenzene-d5 (Surr)	*71*		*44 - 120*	*03/20/18 15:35*	*03/21/18 18:15*	*1*
Phenol-d5 (Surr)	*76*		*51 - 104*	*03/20/18 15:35*	*03/21/18 18:15*	*1*
Terphenyl-d14 (Surr)	*95*		*59 - 98*	*03/20/18 15:35*	*03/21/18 18:15*	*1*

Client Sample ID: B3H237 — **Lab Sample ID: 160-27290-3**
Date Collected: 03/12/18 11:15 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 91.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	50	U	360	50	ug/Kg	☼	03/20/18 15:35	03/21/18 18:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*300*	*N J*	*ug/Kg*	☼	*3.59*	*141-79-7*	*03/20/18 15:35*	*03/21/18 18:42*	*1*
Unknown	*15000*	*N*	*ug/Kg*	☼	*3.97*		*03/20/18 15:35*	*03/21/18 18:42*	*1*

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

Client Sample ID: B3H237 — **Lab Sample ID: 160-27290-3**
Date Collected: 03/12/18 11:15 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 91.7**

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	340	N	ug/Kg	☼	4.49		03/20/18 15:35	03/21/18 18:42	1
Unknown	190	N	ug/Kg	☼	11.18		03/20/18 15:35	03/21/18 18:42	1
Unknown	490	N	ug/Kg	☼	13.74		03/20/18 15:35	03/21/18 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		47 - 125	03/20/18 15:35	03/21/18 18:42	1
2-Fluorobiphenyl (Surr)	78		59 - 110	03/20/18 15:35	03/21/18 18:42	1
2-Fluorophenol (Surr)	84		54 - 102	03/20/18 15:35	03/21/18 18:42	1
Nitrobenzene-d5 (Surr)	77		44 - 120	03/20/18 15:35	03/21/18 18:42	1
Phenol-d5 (Surr)	80		51 - 104	03/20/18 15:35	03/21/18 18:42	1
Terphenyl-d14 (Surr)	90		59 - 98	03/20/18 15:35	03/21/18 18:42	1

Client Sample ID: B3H212 — **Lab Sample ID: 160-27290-4**
Date Collected: 03/12/18 10:27 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	350	49	ug/Kg	☼	03/20/18 15:35	03/21/18 19:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	310	N J	ug/Kg	☼	3.60	141-79-7	03/20/18 15:35	03/21/18 19:09	1
Unknown	15000	N	ug/Kg	☼	3.98		03/20/18 15:35	03/21/18 19:09	1
Unknown	350	N	ug/Kg	☼	4.50		03/20/18 15:35	03/21/18 19:09	1
Unknown	170	N	ug/Kg	☼	10.68		03/20/18 15:35	03/21/18 19:09	1
Bis(2-ethylhexyl) phthalate	170	N J	ug/Kg	☼	12.59	117-81-7	03/20/18 15:35	03/21/18 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		47 - 125	03/20/18 15:35	03/21/18 19:09	1
2-Fluorobiphenyl (Surr)	79		59 - 110	03/20/18 15:35	03/21/18 19:09	1
2-Fluorophenol (Surr)	83		54 - 102	03/20/18 15:35	03/21/18 19:09	1
Nitrobenzene-d5 (Surr)	78		44 - 120	03/20/18 15:35	03/21/18 19:09	1
Phenol-d5 (Surr)	81		51 - 104	03/20/18 15:35	03/21/18 19:09	1
Terphenyl-d14 (Surr)	101	X	59 - 98	03/20/18 15:35	03/21/18 19:09	1

Client Sample ID: B3H1X0 — **Lab Sample ID: 160-27321-1**
Date Collected: 03/12/18 09:30 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	350	49	ug/Kg	☼	03/20/18 15:35	03/21/18 11:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Methylene Chloride	180	N J	ug/Kg	☼	2.89	75-09-2	03/20/18 15:35	03/21/18 11:58	1
3-Penten-2-one, 4-methyl-	270	N J	ug/Kg	☼	3.60	141-79-7	03/20/18 15:35	03/21/18 11:58	1
Unknown	11000	N	ug/Kg	☼	3.97		03/20/18 15:35	03/21/18 11:58	1
Unknown	250	N	ug/Kg	☼	4.50		03/20/18 15:35	03/21/18 11:58	1
Unknown	250	N	ug/Kg	☼	6.02		03/20/18 15:35	03/21/18 11:58	1
Phthalic anhydride	150	N J	ug/Kg	☼	7.22	85-44-9	03/20/18 15:35	03/21/18 11:58	1
n-Hexadecanoic acid	300	N J	ug/Kg	☼	10.17	57-10-3	03/20/18 15:35	03/21/18 11:58	1
Unknown	800	N	ug/Kg	☼	12.37		03/20/18 15:35	03/21/18 11:58	1
Unknown	180	N	ug/Kg	☼	13.44		03/20/18 15:35	03/21/18 11:58	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		47 - 125	03/20/18 15:35	03/21/18 11:58	1
2-Fluorobiphenyl (Surr)	63		59 - 110	03/20/18 15:35	03/21/18 11:58	1
2-Fluorophenol (Surr)	64		54 - 102	03/20/18 15:35	03/21/18 11:58	1
Nitrobenzene-d5 (Surr)	59		44 - 120	03/20/18 15:35	03/21/18 11:58	1
Phenol-d5 (Surr)	61		51 - 104	03/20/18 15:35	03/21/18 11:58	1
Terphenyl-d14 (Surr)	79		59 - 98	03/20/18 15:35	03/21/18 11:58	1

Client Sample ID: B3H1X3 — **Lab Sample ID: 160-27321-2**
Date Collected: 03/12/18 09:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	350	49	ug/Kg	☼	03/20/18 15:35	03/21/18 12:25	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	520	N J	ug/Kg	☼	3.61	141-79-7	03/20/18 15:35	03/21/18 12:25	1
Unknown	15000	N	ug/Kg	☼	3.98		03/20/18 15:35	03/21/18 12:25	1
Unknown	320	N	ug/Kg	☼	4.50		03/20/18 15:35	03/21/18 12:25	1
n-Hexadecanoic acid	520	N J	ug/Kg	☼	10.18	57-10-3	03/20/18 15:35	03/21/18 12:25	1
Unknown	300	N	ug/Kg	☼	10.89		03/20/18 15:35	03/21/18 12:25	1
Phosphonic acid, dioctadecyl ester	900	N J	ug/Kg	☼	12.38	19047-85-9	03/20/18 15:35	03/21/18 12:25	1
Unknown	390	N	ug/Kg	☼	13.20		03/20/18 15:35	03/21/18 12:25	1
Unknown	180	N	ug/Kg	☼	13.45		03/20/18 15:35	03/21/18 12:25	1
Unknown	250	N	ug/Kg	☼	14.19		03/20/18 15:35	03/21/18 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		47 - 125	03/20/18 15:35	03/21/18 12:25	1
2-Fluorobiphenyl (Surr)	77		59 - 110	03/20/18 15:35	03/21/18 12:25	1
2-Fluorophenol (Surr)	82		54 - 102	03/20/18 15:35	03/21/18 12:25	1
Nitrobenzene-d5 (Surr)	74		44 - 120	03/20/18 15:35	03/21/18 12:25	1
Phenol-d5 (Surr)	77		51 - 104	03/20/18 15:35	03/21/18 12:25	1
Terphenyl-d14 (Surr)	92		59 - 98	03/20/18 15:35	03/21/18 12:25	1

Client Sample ID: B3H1X6 — **Lab Sample ID: 160-27321-3**
Date Collected: 03/12/18 09:40 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	03/20/18 15:35	03/21/18 12:52	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	410	N J	ug/Kg	☼	3.59	141-79-7	03/20/18 15:35	03/21/18 12:52	1
Unknown	16000	N	ug/Kg	☼	3.97		03/20/18 15:35	03/21/18 12:52	1
Unknown	340	N	ug/Kg	☼	4.49		03/20/18 15:35	03/21/18 12:52	1
n-Hexadecanoic acid	280	N J	ug/Kg	☼	10.16	57-10-3	03/20/18 15:35	03/21/18 12:52	1
Bromacil	160	N J	ug/Kg	☼	10.23	314-40-9	03/20/18 15:35	03/21/18 12:52	1
Cycloeicosane	930	N J	ug/Kg	☼	12.36	296-56-0	03/20/18 15:35	03/21/18 12:52	1
Unknown	160	N	ug/Kg	☼	13.42		03/20/18 15:35	03/21/18 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		47 - 125	03/20/18 15:35	03/21/18 12:52	1
2-Fluorobiphenyl (Surr)	81		59 - 110	03/20/18 15:35	03/21/18 12:52	1
2-Fluorophenol (Surr)	87		54 - 102	03/20/18 15:35	03/21/18 12:52	1
Nitrobenzene-d5 (Surr)	79		44 - 120	03/20/18 15:35	03/21/18 12:52	1
Phenol-d5 (Surr)	83		51 - 104	03/20/18 15:35	03/21/18 12:52	1

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

Client Sample ID: B3H1X6 — **Lab Sample ID: 160-27321-3**
Date Collected: 03/12/18 09:40 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.9**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	97		59 - 98	03/20/18 15:35	03/21/18 12:52	1

Client Sample ID: B3H1Y1 — **Lab Sample ID: 160-27321-4**
Date Collected: 03/12/18 09:30 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	340	48	ug/Kg	☼	03/20/18 15:35	03/21/18 13:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	340	N J	ug/Kg	☼	3.60	141-79-7	03/20/18 15:35	03/21/18 13:18	1
Unknown	18000	N	ug/Kg	☼	3.98		03/20/18 15:35	03/21/18 13:18	1
Unknown	340	N	ug/Kg	☼	4.50		03/20/18 15:35	03/21/18 13:18	1
Unknown	170	N	ug/Kg	☼	10.68		03/20/18 15:35	03/21/18 13:18	1
1-Eicosanol	140	N J	ug/Kg	☼	12.37	629-96-9	03/20/18 15:35	03/21/18 13:18	1
Octacosane	170	N J	ug/Kg	☼	14.71	630-02-4	03/20/18 15:35	03/21/18 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		47 - 125	03/20/18 15:35	03/21/18 13:18	1
2-Fluorobiphenyl (Surr)	82		59 - 110	03/20/18 15:35	03/21/18 13:18	1
2-Fluorophenol (Surr)	85		54 - 102	03/20/18 15:35	03/21/18 13:18	1
Nitrobenzene-d5 (Surr)	79		44 - 120	03/20/18 15:35	03/21/18 13:18	1
Phenol-d5 (Surr)	82		51 - 104	03/20/18 15:35	03/21/18 13:18	1
Terphenyl-d14 (Surr)	100	X	59 - 98	03/20/18 15:35	03/21/18 13:18	1

Client Sample ID: B3H206 — **Lab Sample ID: 160-27321-5**
Date Collected: 03/12/18 10:17 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	350	49	ug/Kg	☼	03/20/18 15:35	03/21/18 13:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	310	N J	ug/Kg	☼	3.60	141-79-7	03/20/18 15:35	03/21/18 13:46	1
Unknown	15000	N	ug/Kg	☼	3.98		03/20/18 15:35	03/21/18 13:46	1
Unknown	330	N	ug/Kg	☼	4.50		03/20/18 15:35	03/21/18 13:46	1
Unknown	230	N	ug/Kg	☼	10.00		03/20/18 15:35	03/21/18 13:46	1
Unknown	170	N	ug/Kg	☼	10.68		03/20/18 15:35	03/21/18 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		47 - 125	03/20/18 15:35	03/21/18 13:46	1
2-Fluorobiphenyl (Surr)	84		59 - 110	03/20/18 15:35	03/21/18 13:46	1
2-Fluorophenol (Surr)	89		54 - 102	03/20/18 15:35	03/21/18 13:46	1
Nitrobenzene-d5 (Surr)	82		44 - 120	03/20/18 15:35	03/21/18 13:46	1
Phenol-d5 (Surr)	86		51 - 104	03/20/18 15:35	03/21/18 13:46	1
Terphenyl-d14 (Surr)	102	X	59 - 98	03/20/18 15:35	03/21/18 13:46	1

Client Sample ID: B3H209 — **Lab Sample ID: 160-27321-6**
Date Collected: 03/12/18 10:21 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 90.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	50	U	360	50	ug/Kg	☼	03/20/18 15:35	03/21/18 15:06	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	150	N	ug/Kg	☼	2.63		03/20/18 15:35	03/21/18 15:06	1
3-Penten-2-one, 4-methyl-	370	N J	ug/Kg	☼	3.60	141-79-7	03/20/18 15:35	03/21/18 15:06	1
Unknown	160	N	ug/Kg	☼	3.71		03/20/18 15:35	03/21/18 15:06	1
Unknown	15000	N	ug/Kg	☼	3.98		03/20/18 15:35	03/21/18 15:06	1
Unknown	400	N	ug/Kg	☼	4.50		03/20/18 15:35	03/21/18 15:06	1
n-Hexadecanoic acid	230	N J	ug/Kg	☼	10.17	57-10-3	03/20/18 15:35	03/21/18 15:06	1
Bromacil	320	N J	ug/Kg	☼	10.24	314-40-9	03/20/18 15:35	03/21/18 15:06	1
3-Eicosene, (E)-	690	N J	ug/Kg	☼	12.38	74685-33-9	03/20/18 15:35	03/21/18 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		47 - 125	03/20/18 15:35	03/21/18 15:06	1
2-Fluorobiphenyl (Surr)	79		59 - 110	03/20/18 15:35	03/21/18 15:06	1
2-Fluorophenol (Surr)	82		54 - 102	03/20/18 15:35	03/21/18 15:06	1
Nitrobenzene-d5 (Surr)	77		44 - 120	03/20/18 15:35	03/21/18 15:06	1
Phenol-d5 (Surr)	78		51 - 104	03/20/18 15:35	03/21/18 15:06	1
Terphenyl-d14 (Surr)	103	X	59 - 98	03/20/18 15:35	03/21/18 15:06	1

Client Sample ID: B3H215 — **Lab Sample ID: 160-27321-7**
Date Collected: 03/12/18 10:52 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	03/20/18 15:35	03/21/18 15:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	320	N J	ug/Kg	☼	3.60	141-79-7	03/20/18 15:35	03/21/18 15:33	1
Unknown	14000	N	ug/Kg	☼	3.98		03/20/18 15:35	03/21/18 15:33	1
Unknown	340	N	ug/Kg	☼	4.50		03/20/18 15:35	03/21/18 15:33	1
1-Docosene	720	N J	ug/Kg	☼	12.38	1599-67-3	03/20/18 15:35	03/21/18 15:33	1
Bis(2-ethylhexyl) phthalate	1100	N J	ug/Kg	☼	12.59	117-81-7	03/20/18 15:35	03/21/18 15:33	1
Tetratriacontane	170	N J	ug/Kg	☼	14.71	14167-59-0	03/20/18 15:35	03/21/18 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		47 - 125	03/20/18 15:35	03/21/18 15:33	1
2-Fluorobiphenyl (Surr)	86		59 - 110	03/20/18 15:35	03/21/18 15:33	1
2-Fluorophenol (Surr)	91		54 - 102	03/20/18 15:35	03/21/18 15:33	1
Nitrobenzene-d5 (Surr)	83		44 - 120	03/20/18 15:35	03/21/18 15:33	1
Phenol-d5 (Surr)	87		51 - 104	03/20/18 15:35	03/21/18 15:33	1
Terphenyl-d14 (Surr)	103	X	59 - 98	03/20/18 15:35	03/21/18 15:33	1

Client Sample ID: B3H229 — **Lab Sample ID: 160-27321-8**
Date Collected: 03/12/18 11:27 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	360	49	ug/Kg	☼	03/20/18 15:35	03/21/18 16:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	310	N J	ug/Kg	☼	3.59	141-79-7	03/20/18 15:35	03/21/18 16:00	1
Unknown	15000	N	ug/Kg	☼	3.96		03/20/18 15:35	03/21/18 16:00	1
Unknown	360	N	ug/Kg	☼	4.48		03/20/18 15:35	03/21/18 16:00	1
Cycloeicosane	710	N J	ug/Kg	☼	12.36	296-56-0	03/20/18 15:35	03/21/18 16:00	1
Unknown	150	N	ug/Kg	☼	12.77		03/20/18 15:35	03/21/18 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		47 - 125	03/20/18 15:35	03/21/18 16:00	1

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

Client Sample ID: B3H229 — **Lab Sample ID: 160-27321-8**
Date Collected: 03/12/18 11:27 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.5**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		59 - 110	03/20/18 15:35	03/21/18 16:00	1
2-Fluorophenol (Surr)	86		54 - 102	03/20/18 15:35	03/21/18 16:00	1
Nitrobenzene-d5 (Surr)	79		44 - 120	03/20/18 15:35	03/21/18 16:00	1
Phenol-d5 (Surr)	82		51 - 104	03/20/18 15:35	03/21/18 16:00	1
Terphenyl-d14 (Surr)	99	X	59 - 98	03/20/18 15:35	03/21/18 16:00	1

Client Sample ID: B3H232 — **Lab Sample ID: 160-27321-9**
Date Collected: 03/12/18 11:34 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	03/20/18 15:35	03/21/18 16:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	360	N J	ug/Kg	☼	3.60	141-79-7	03/20/18 15:35	03/21/18 16:27	1
Unknown	15000	N	ug/Kg	☼	3.98		03/20/18 15:35	03/21/18 16:27	1
Unknown	330	N	ug/Kg	☼	4.50		03/20/18 15:35	03/21/18 16:27	1
1-Heptadecene	740	N J	ug/Kg	☼	12.39	6765-39-5	03/20/18 15:35	03/21/18 16:27	1
Tetratetracontane	140	N J	ug/Kg	☼	14.72	7098-22-8	03/20/18 15:35	03/21/18 16:27	1
Unknown	140	N	ug/Kg	☼	16.20		03/20/18 15:35	03/21/18 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		47 - 125	03/20/18 15:35	03/21/18 16:27	1
2-Fluorobiphenyl (Surr)	82		59 - 110	03/20/18 15:35	03/21/18 16:27	1
2-Fluorophenol (Surr)	86		54 - 102	03/20/18 15:35	03/21/18 16:27	1
Nitrobenzene-d5 (Surr)	80		44 - 120	03/20/18 15:35	03/21/18 16:27	1
Phenol-d5 (Surr)	84		51 - 104	03/20/18 15:35	03/21/18 16:27	1
Terphenyl-d14 (Surr)	102	X	59 - 98	03/20/18 15:35	03/21/18 16:27	1

Client Sample ID: B3H235 — **Lab Sample ID: 160-27321-10**
Date Collected: 03/12/18 11:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 89.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	51	U	370	51	ug/Kg	☼	03/20/18 15:35	03/21/18 16:54	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	340	N J	ug/Kg	☼	3.59	141-79-7	03/20/18 15:35	03/21/18 16:54	1
Unknown	17000	N	ug/Kg	☼	3.97		03/20/18 15:35	03/21/18 16:54	1
Unknown	380	N	ug/Kg	☼	4.49		03/20/18 15:35	03/21/18 16:54	1
3-Eicosene, (E)-	880	N J	ug/Kg	☼	12.38	74685-33-9	03/20/18 15:35	03/21/18 16:54	1
Unknown	170	N	ug/Kg	☼	12.79		03/20/18 15:35	03/21/18 16:54	1
Heptacosane	230	N J	ug/Kg	☼	13.43	593-49-7	03/20/18 15:35	03/21/18 16:54	1
Heptacosane	230	N J	ug/Kg	☼	14.70	593-49-7	03/20/18 15:35	03/21/18 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		47 - 125	03/20/18 15:35	03/21/18 16:54	1
2-Fluorobiphenyl (Surr)	86		59 - 110	03/20/18 15:35	03/21/18 16:54	1
2-Fluorophenol (Surr)	92		54 - 102	03/20/18 15:35	03/21/18 16:54	1
Nitrobenzene-d5 (Surr)	83		44 - 120	03/20/18 15:35	03/21/18 16:54	1
Phenol-d5 (Surr)	87		51 - 104	03/20/18 15:35	03/21/18 16:54	1
Terphenyl-d14 (Surr)	101	X	59 - 98	03/20/18 15:35	03/21/18 16:54	1

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

Client Sample ID: B3H245 — **Lab Sample ID: 160-27321-11**
Date Collected: 03/12/18 11:16 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	46	U	330	46	ug/Kg	☼	03/20/18 15:35	03/21/18 17:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Methylene Chloride	*160*	*N J*	*ug/Kg*	☼	*2.88*	*75-09-2*	*03/20/18 15:35*	*03/21/18 17:21*	*1*
3-Penten-2-one, 4-methyl-	*320*	*N J*	*ug/Kg*	☼	*3.60*	*141-79-7*	*03/20/18 15:35*	*03/21/18 17:21*	*1*
Unknown	*14000*	*N*	*ug/Kg*	☼	*3.97*		*03/20/18 15:35*	*03/21/18 17:21*	*1*
Unknown	*290*	*N*	*ug/Kg*	☼	*4.49*		*03/20/18 15:35*	*03/21/18 17:21*	*1*
E-15-Heptadecenal	*560*	*N J*	*ug/Kg*	☼	*12.39*	*1000130-97-9*	*03/20/18 15:35*	*03/21/18 17:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*47 - 125*	*03/20/18 15:35*	*03/21/18 17:21*	*1*
2-Fluorobiphenyl (Surr)	*80*		*59 - 110*	*03/20/18 15:35*	*03/21/18 17:21*	*1*
2-Fluorophenol (Surr)	*84*		*54 - 102*	*03/20/18 15:35*	*03/21/18 17:21*	*1*
Nitrobenzene-d5 (Surr)	*77*		*44 - 120*	*03/20/18 15:35*	*03/21/18 17:21*	*1*
Phenol-d5 (Surr)	*82*		*51 - 104*	*03/20/18 15:35*	*03/21/18 17:21*	*1*
Terphenyl-d14 (Surr)	*103*	*X*	*59 - 98*	*03/20/18 15:35*	*03/21/18 17:21*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B3H226 — **Lab Sample ID: 160-27290-1**
Date Collected: 03/12/18 11:22 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 88.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.7	U	28	2.7	mg/Kg	☼	03/20/18 11:15	03/28/18 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*49 - 133*	*03/20/18 11:15*	*03/28/18 20:21*	*1*

Client Sample ID: B3H1X9 — **Lab Sample ID: 160-27290-2**
Date Collected: 03/12/18 09:45 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 85.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.8	U	29	2.8	mg/Kg	☼	03/20/18 11:15	03/28/18 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*49 - 133*	*03/20/18 11:15*	*03/28/18 20:48*	*1*

Client Sample ID: B3H237 — **Lab Sample ID: 160-27290-3**
Date Collected: 03/12/18 11:15 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 91.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	27	2.6	mg/Kg	☼	03/20/18 11:15	03/28/18 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*49 - 133*	*03/20/18 11:15*	*03/28/18 21:15*	*1*

Client Sample ID: B3H212 — **Lab Sample ID: 160-27290-4**
Date Collected: 03/12/18 10:27 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	27	2.6	mg/Kg	☼	03/20/18 11:15	03/28/18 21:42	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		49 - 133	03/20/18 11:15	03/28/18 21:42	1

Client Sample ID: B3H1X0 — **Lab Sample ID: 160-27321-1**
Date Collected: 03/12/18 09:30 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	27	2.6	mg/Kg	☼	03/20/18 11:15	03/28/18 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		49 - 133	03/20/18 11:15	03/28/18 13:38	1

Client Sample ID: B3H1X3 — **Lab Sample ID: 160-27321-2**
Date Collected: 03/12/18 09:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	27	2.6	mg/Kg	☼	03/20/18 11:15	03/28/18 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		49 - 133	03/20/18 11:15	03/28/18 14:59	1

Client Sample ID: B3H1X6 — **Lab Sample ID: 160-27321-3**
Date Collected: 03/12/18 09:40 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	27	2.6	mg/Kg	☼	03/20/18 11:15	03/28/18 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		49 - 133	03/20/18 11:15	03/28/18 15:26	1

Client Sample ID: B3H1Y1 — **Lab Sample ID: 160-27321-4**
Date Collected: 03/12/18 09:30 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	03/20/18 11:15	03/28/18 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		49 - 133	03/20/18 11:15	03/28/18 15:52	1

Client Sample ID: B3H206 — **Lab Sample ID: 160-27321-5**
Date Collected: 03/12/18 10:17 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	27	2.6	mg/Kg	☼	03/20/18 11:15	03/28/18 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		49 - 133	03/20/18 11:15	03/28/18 16:19	1

Client Sample ID: B3H209 — **Lab Sample ID: 160-27321-6**
Date Collected: 03/12/18 10:21 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 90.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.7	U	27	2.7	mg/Kg	☼	03/20/18 11:15	03/28/18 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		49 - 133	03/20/18 11:15	03/28/18 16:46	1

Client Sample ID: B3H215 — **Lab Sample ID: 160-27321-7**
Date Collected: 03/12/18 10:52 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	26	2.6	mg/Kg	☼	03/20/18 11:15	03/28/18 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*49 - 133*	*03/20/18 11:15*	*03/28/18 18:06*	*1*

Client Sample ID: B3H229 — **Lab Sample ID: 160-27321-8**
Date Collected: 03/12/18 11:27 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	27	2.6	mg/Kg	☼	03/20/18 11:15	03/28/18 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*49 - 133*	*03/20/18 11:15*	*03/28/18 18:33*	*1*

Client Sample ID: B3H232 — **Lab Sample ID: 160-27321-9**
Date Collected: 03/12/18 11:34 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	26	2.6	mg/Kg	☼	03/20/18 11:15	03/28/18 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*49 - 133*	*03/20/18 11:15*	*03/28/18 19:00*	*1*

Client Sample ID: B3H235 — **Lab Sample ID: 160-27321-10**
Date Collected: 03/12/18 11:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 89.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.7	U	28	2.7	mg/Kg	☼	03/20/18 11:15	03/28/18 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*49 - 133*	*03/20/18 11:15*	*03/28/18 19:27*	*1*

Client Sample ID: B3H245 — **Lab Sample ID: 160-27321-11**
Date Collected: 03/12/18 11:16 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.4	U	25	2.4	mg/Kg	☼	03/20/18 11:15	03/28/18 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*49 - 133*	*03/20/18 11:15*	*03/28/18 19:54*	*1*

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H226 — **Lab Sample ID: 160-27290-1**
Date Collected: 03/12/18 11:22 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 88.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6520**	**D**	12.0	4.8	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Antimony	**0.78**	**B D**	1.3	0.53	mg/Kg	☼	03/15/18 10:36	04/02/18 10:43	5
Arsenic	**6.7**	**D**	2.4	0.96	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Barium	**88.6**	**D**	4.8	1.2	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Cadmium	**0.12**	**D**	0.12	0.058	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Chromium	**9.9**	**D**	2.4	1.1	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Copper	**16.5**	**D**	2.4	0.96	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5

Method: 6020A - Metals (ICP/MS) (Continued)

Client Sample ID: B3H226 — **Lab Sample ID: 160-27290-1**
Date Collected: 03/12/18 11:22 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 88.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.5	D	0.72	0.30	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Manganese	398	D N	1.2	0.48	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Nickel	10.7	D	1.2	0.48	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Selenium	1.5	D	1.2	0.77	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5
Uranium	0.65	D	0.24	0.096	mg/Kg	☼	03/15/18 10:35	03/22/18 23:31	5

Client Sample ID: B3H1X9 — **Lab Sample ID: 160-27290-2**
Date Collected: 03/12/18 09:45 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 85.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6720	D	12.8	5.1	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Antimony	0.79	B D	1.3	0.53	mg/Kg	☼	03/15/18 10:36	04/02/18 11:01	5
Arsenic	8.4	D	2.6	1.0	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Barium	113	D	5.1	1.3	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Cadmium	0.13	D	0.13	0.061	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Chromium	8.9	D	2.6	1.2	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Copper	17.1	D	2.6	1.0	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Lead	8.4	D	0.77	0.32	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Manganese	491	D N	1.3	0.51	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Nickel	11.2	D	1.3	0.51	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Selenium	1.6	D	1.3	0.82	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5
Uranium	0.66	D	0.26	0.10	mg/Kg	☼	03/15/18 10:35	03/23/18 00:17	5

Client Sample ID: B3H237 — **Lab Sample ID: 160-27290-3**
Date Collected: 03/12/18 11:15 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 91.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	107	D	5.1	2.0	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Antimony	0.20	U D	0.50	0.20	mg/Kg	☼	03/15/18 10:36	04/02/18 11:05	2
Arsenic	0.41	U D	1.0	0.41	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Barium	0.53	B D	2.0	0.51	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Cadmium	0.024	U D	0.051	0.024	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Chromium	0.91	B D	1.0	0.46	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Copper	0.41	U D	1.0	0.41	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Lead	0.13	U D	0.30	0.13	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Manganese	0.69	D N	0.51	0.20	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Nickel	0.34	B D	0.51	0.20	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Selenium	0.33	U D	0.51	0.33	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Silver	0.076	U D	0.20	0.076	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2
Uranium	0.075	B D	0.10	0.041	mg/Kg	☼	03/15/18 10:35	03/23/18 00:24	2

Client Sample ID: B3H212 — **Lab Sample ID: 160-27290-4**
Date Collected: 03/12/18 10:27 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5080	D	11.9	4.7	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Antimony	0.49	U D	1.2	0.49	mg/Kg	☼	03/15/18 10:36	04/02/18 11:10	5
Arsenic	5.7	D	2.4	0.95	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5

Method: 6020A - Metals (ICP/MS) (Continued)

Client Sample ID: B3H212 — **Lab Sample ID: 160-27290-4**
Date Collected: 03/12/18 10:27 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	67.6	D	4.7	1.2	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Cadmium	0.081	B D	0.12	0.057	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Chromium	7.9	D	2.4	1.1	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Copper	19.2	D	2.4	0.95	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Lead	3.5	D	0.71	0.30	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Manganese	350	D N	1.2	0.47	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Nickel	11.1	D	1.2	0.47	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Selenium	1.6	D	1.2	0.76	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5
Uranium	0.50	D	0.24	0.095	mg/Kg	☼	03/15/18 10:35	03/23/18 00:31	5

Client Sample ID: B3H1X0 — **Lab Sample ID: 160-27321-1**
Date Collected: 03/12/18 09:30 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6060	D	11.8	4.7	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Antimony	0.47	U D	1.2	0.47	mg/Kg	☼	03/19/18 11:12	04/02/18 20:50	5
Arsenic	3.7	D	2.4	0.94	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Barium	88.0	D	4.7	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Cadmium	0.094	B D	0.12	0.057	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Chromium	8.3	D	2.4	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Copper	12.8	D	2.4	0.94	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Lead	5.2	D	0.71	0.30	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Manganese	370	D N	1.2	0.47	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Nickel	10.6	D	1.2	0.47	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Selenium	1.3	D	1.2	0.76	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5
Uranium	0.39	D	0.24	0.094	mg/Kg	☼	03/19/18 11:08	03/28/18 01:20	5

Client Sample ID: B3H1X3 — **Lab Sample ID: 160-27321-2**
Date Collected: 03/12/18 09:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6390	D	12.4	4.9	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Antimony	0.47	U D	1.2	0.47	mg/Kg	☼	03/19/18 11:12	04/02/18 21:08	5
Arsenic	4.0	D	2.5	0.99	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Barium	90.8	D	4.9	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Cadmium	0.090	B D	0.12	0.059	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Chromium	10.8	D	2.5	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Copper	13.8	D	2.5	0.99	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Lead	5.2	D	0.74	0.31	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Manganese	399	D N	1.2	0.49	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Nickel	14.4	D	1.2	0.49	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Selenium	1.4	D	1.2	0.79	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Silver	0.19	U D	0.49	0.19	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5
Uranium	0.46	D	0.25	0.099	mg/Kg	☼	03/19/18 11:08	03/28/18 01:46	5

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H1X6 — **Lab Sample ID: 160-27321-3**
Date Collected: 03/12/18 09:40 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5680	D	11.8	4.7	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Antimony	0.47	U D	1.2	0.47	mg/Kg	☼	03/19/18 11:12	04/02/18 21:13	5
Arsenic	5.0	D	2.4	0.95	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Barium	73.3	D	4.7	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Cadmium	0.081	B D	0.12	0.057	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Chromium	7.4	D	2.4	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Copper	13.1	D	2.4	0.95	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Lead	5.3	D	0.71	0.30	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Manganese	376	D N	1.2	0.47	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Nickel	9.5	D	1.2	0.47	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Selenium	1.4	D	1.2	0.76	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5
Uranium	0.44	D	0.24	0.095	mg/Kg	☼	03/19/18 11:08	03/28/18 01:53	5

Client Sample ID: B3H1Y1 — **Lab Sample ID: 160-27321-4**
Date Collected: 03/12/18 09:30 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200	D	11.4	4.6	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Antimony	0.47	U D	1.2	0.47	mg/Kg	☼	03/19/18 11:12	04/02/18 21:17	5
Arsenic	3.5	D	2.3	0.91	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Barium	90.3	D	4.6	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Cadmium	0.089	B D	0.11	0.055	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Chromium	8.5	D	2.3	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Copper	12.7	D	2.3	0.91	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Lead	5.1	D	0.69	0.29	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Manganese	379	D N	1.1	0.46	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Nickel	10.3	D	1.1	0.46	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Selenium	1.2	D	1.1	0.73	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Silver	0.17	U D	0.46	0.17	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5
Uranium	0.39	D	0.23	0.091	mg/Kg	☼	03/19/18 11:08	03/28/18 02:20	5

Client Sample ID: B3H206 — **Lab Sample ID: 160-27321-5**
Date Collected: 03/12/18 10:17 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6540	D	12.8	5.1	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Antimony	0.49	U D	1.2	0.49	mg/Kg	☼	03/19/18 11:12	04/02/18 21:35	5
Arsenic	3.7	D	2.6	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Barium	85.8	D	5.1	1.3	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Cadmium	0.080	B D	0.13	0.061	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Chromium	9.3	D	2.6	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Copper	15.1	D	2.6	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Lead	4.8	D	0.77	0.32	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Manganese	368	D N	1.3	0.51	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Nickel	11.5	D	1.3	0.51	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Selenium	1.6	D	1.3	0.82	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5
Uranium	0.43	D	0.26	0.10	mg/Kg	☼	03/19/18 11:08	03/28/18 02:26	5

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-27290-1
SDG: SL2820

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H209 — **Lab Sample ID: 160-27321-6**
Date Collected: 03/12/18 10:21 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 90.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6100	D	12.6	5.0	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Antimony	0.50	U D	1.3	0.50	mg/Kg	☼	03/19/18 11:12	04/02/18 21:40	5
Arsenic	8.0	D	2.5	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Barium	82.1	D	5.0	1.3	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Cadmium	0.098	B D	0.13	0.061	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Chromium	8.0	D	2.5	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Copper	13.5	D	2.5	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Lead	5.9	D	0.76	0.32	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Manganese	369	D N	1.3	0.50	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Nickel	10.1	D	1.3	0.50	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Selenium	1.3	D	1.3	0.81	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Silver	0.19	U D	0.50	0.19	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5
Uranium	0.71	D	0.25	0.10	mg/Kg	☼	03/19/18 11:08	03/28/18 02:33	5

Client Sample ID: B3H215 — **Lab Sample ID: 160-27321-7**
Date Collected: 03/12/18 10:52 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6520	D	12.7	5.1	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Antimony	0.51	U D	1.3	0.51	mg/Kg	☼	03/19/18 11:12	04/02/18 21:44	5
Arsenic	8.5	D	2.5	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Barium	84.5	D	5.1	1.3	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Cadmium	0.10	B D	0.13	0.061	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Chromium	8.5	D	2.5	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Copper	20.4	D	2.5	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Lead	7.6	D	0.76	0.32	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Manganese	448	D N	1.3	0.51	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Nickel	12.1	D	1.3	0.51	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Selenium	1.5	D	1.3	0.82	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5
Uranium	0.62	D	0.25	0.10	mg/Kg	☼	03/19/18 11:08	03/28/18 02:40	5

Client Sample ID: B3H229 — **Lab Sample ID: 160-27321-8**
Date Collected: 03/12/18 11:27 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5620	D	13.1	5.3	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	03/19/18 11:12	04/02/18 21:48	5
Arsenic	5.7	D	2.6	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Barium	73.2	D	5.3	1.3	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Cadmium	0.087	B D	0.13	0.063	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Chromium	8.1	D	2.6	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Copper	13.5	D	2.6	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Lead	8.1	D	0.79	0.33	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Manganese	370	D N	1.3	0.53	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Nickel	9.7	D	1.3	0.53	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Selenium	1.4	D	1.3	0.84	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Silver	0.20	U D	0.53	0.20	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5
Uranium	0.43	D	0.26	0.11	mg/Kg	☼	03/19/18 11:08	03/28/18 02:46	5

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-27290-1
SDG: SL2820

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H232 — **Lab Sample ID: 160-27321-9**
Date Collected: 03/12/18 11:34 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5950	D	11.9	4.8	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Antimony	0.51	U D	1.3	0.51	mg/Kg	☼	03/19/18 11:12	04/02/18 21:53	5
Arsenic	6.8	D	2.4	0.95	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Barium	73.2	D	4.8	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Cadmium	0.096	B D	0.12	0.057	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Chromium	7.3	D	2.4	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Copper	17.0	D	2.4	0.95	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Lead	6.5	D	0.71	0.30	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Manganese	407	D N	1.2	0.48	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Nickel	10.0	D	1.2	0.48	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Selenium	1.6	D	1.2	0.76	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5
Uranium	0.46	D	0.24	0.095	mg/Kg	☼	03/19/18 11:08	03/28/18 02:53	5

Client Sample ID: B3H235 — **Lab Sample ID: 160-27321-10**
Date Collected: 03/12/18 11:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 89.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7150	D	13.1	5.2	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Antimony	0.54	U D	1.4	0.54	mg/Kg	☼	03/19/18 11:12	04/02/18 21:57	5
Arsenic	11.7	D	2.6	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Barium	97.0	D	5.2	1.3	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Cadmium	0.13	D	0.13	0.063	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Chromium	9.1	D	2.6	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Copper	17.9	D	2.6	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Lead	10.2	D	0.78	0.33	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Manganese	512	D N	1.3	0.52	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Nickel	12.0	D	1.3	0.52	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Selenium	1.7	D	1.3	0.84	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Silver	0.20	U D	0.52	0.20	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5
Uranium	0.58	D	0.26	0.10	mg/Kg	☼	03/19/18 11:08	03/28/18 03:00	5

Client Sample ID: B3H245 — **Lab Sample ID: 160-27321-11**
Date Collected: 03/12/18 11:16 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	79.3	D	4.5	1.8	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Antimony	0.20	U D	0.49	0.20	mg/Kg	☼	03/19/18 11:12	04/02/18 22:01	2
Arsenic	0.36	U D	0.89	0.36	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Barium	0.45	U D	1.8	0.45	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Cadmium	0.021	U D	0.045	0.021	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Chromium	0.40	U D	0.89	0.40	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Copper	0.37	B D	0.89	0.36	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Lead	0.11	U D	0.27	0.11	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Manganese	0.46	D C N	0.45	0.18	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Nickel	0.18	U D	0.45	0.18	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Selenium	0.29	U D	0.45	0.29	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Silver	0.067	U D	0.18	0.067	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2
Uranium	0.054	B D	0.089	0.036	mg/Kg	☼	03/19/18 11:08	03/28/18 03:07	2

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H248 — **Lab Sample ID: 160-27321-12**
Date Collected: 03/12/18 13:16 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6050	D	12.3	4.9	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	03/19/18 11:12	04/02/18 22:06	5
Arsenic	2.7	D	2.5	0.98	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Barium	79.5	D	4.9	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Cadmium	0.091	B D	0.12	0.059	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Chromium	8.4	D	2.5	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Copper	34.4	D	2.5	0.98	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Lead	5.6	D	0.74	0.31	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Manganese	353	D N	1.2	0.49	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Nickel	11.3	D	1.2	0.49	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Selenium	1.2	D	1.2	0.79	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Silver	0.18	U D	0.49	0.18	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5
Uranium	0.40	D	0.25	0.098	mg/Kg	☼	03/19/18 11:08	03/28/18 03:13	5

Client Sample ID: B3H251 — **Lab Sample ID: 160-27321-13**
Date Collected: 03/12/18 13:21 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5660	D	11.8	4.7	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	03/19/18 11:12	04/02/18 22:10	5
Arsenic	4.3	D	2.4	0.94	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Barium	75.6	D	4.7	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Cadmium	0.077	B D	0.12	0.057	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Chromium	8.2	D	2.4	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Copper	13.1	D	2.4	0.94	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Lead	4.6	D	0.71	0.29	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Manganese	346	D N	1.2	0.47	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Nickel	11.9	D	1.2	0.47	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Selenium	1.3	D	1.2	0.75	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5
Uranium	0.72	D	0.24	0.094	mg/Kg	☼	03/19/18 11:08	03/28/18 03:20	5

Client Sample ID: B3H254 — **Lab Sample ID: 160-27321-14**
Date Collected: 03/12/18 13:25 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5770	D	11.5	4.6	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	03/19/18 11:12	04/02/18 22:15	5
Arsenic	4.0	D	2.3	0.92	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Barium	71.1	D	4.6	1.1	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Cadmium	0.080	B D	0.11	0.055	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Chromium	7.5	D	2.3	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Copper	13.3	D	2.3	0.92	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Lead	4.5	D	0.69	0.29	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Manganese	349	D N	1.1	0.46	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Nickel	9.6	D	1.1	0.46	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Selenium	1.4	D	1.1	0.74	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Silver	0.17	U D	0.46	0.17	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5
Uranium	0.41	D	0.23	0.092	mg/Kg	☼	03/19/18 11:08	03/28/18 03:47	5

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H257 — **Lab Sample ID: 160-27321-15**
Date Collected: 03/12/18 13:29 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5170**	**D**	12.8	5.1	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Antimony	0.45	U D	1.1	0.45	mg/Kg	☼	03/19/18 11:12	04/02/18 22:32	5
Arsenic	**3.2**	**D**	2.6	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Barium	**55.4**	**D**	5.1	1.3	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Cadmium	**0.062**	**B D**	0.13	0.061	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Chromium	**8.2**	**D**	2.6	1.2	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Copper	**12.2**	**D**	2.6	1.0	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Lead	**3.7**	**D**	0.77	0.32	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Manganese	**301**	**D N**	1.3	0.51	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Nickel	**9.3**	**D**	1.3	0.51	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Selenium	**1.2**	**B D**	1.3	0.82	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5
Uranium	**1.9**	**D**	0.26	0.10	mg/Kg	☼	03/19/18 11:08	03/28/18 03:54	5

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3H226 — **Lab Sample ID: 160-27290-1**
Date Collected: 03/12/18 11:22 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 88.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	U	0.042	0.014	mg/Kg	☼	03/19/18 08:46	03/21/18 13:19	1

Client Sample ID: B3H1X9 — **Lab Sample ID: 160-27290-2**
Date Collected: 03/12/18 09:45 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 85.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.039	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 13:28	1

Client Sample ID: B3H237 — **Lab Sample ID: 160-27290-3**
Date Collected: 03/12/18 11:15 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 91.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.038	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 13:30	1

Client Sample ID: B3H212 — **Lab Sample ID: 160-27290-4**
Date Collected: 03/12/18 10:27 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	U	0.041	0.014	mg/Kg	☼	03/19/18 08:46	03/21/18 13:32	1

Client Sample ID: B3H1X0 — **Lab Sample ID: 160-27321-1**
Date Collected: 03/12/18 09:30 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.038	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 13:34	1

Client Sample ID: B3H1X3 — **Lab Sample ID: 160-27321-2**
Date Collected: 03/12/18 09:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.040	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 13:41	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-27290-1
SDG: SL2820

Client Sample ID: B3H1X6 — **Lab Sample ID: 160-27321-3**
Date Collected: 03/12/18 09:40 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	U	0.037	0.012	mg/Kg	☼	03/19/18 08:46	03/21/18 13:43	1

Client Sample ID: B3H1Y1 — **Lab Sample ID: 160-27321-4**
Date Collected: 03/12/18 09:30 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.039	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 13:45	1

Client Sample ID: B3H206 — **Lab Sample ID: 160-27321-5**
Date Collected: 03/12/18 10:17 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**B**	0.036	0.012	mg/Kg	☼	03/19/18 08:46	03/21/18 13:47	1

Client Sample ID: B3H209 — **Lab Sample ID: 160-27321-6**
Date Collected: 03/12/18 10:21 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 90.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.038	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 13:49	1

Client Sample ID: B3H215 — **Lab Sample ID: 160-27321-7**
Date Collected: 03/12/18 10:52 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.039	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 13:50	1

Client Sample ID: B3H229 — **Lab Sample ID: 160-27321-8**
Date Collected: 03/12/18 11:27 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.039	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 13:52	1

Client Sample ID: B3H232 — **Lab Sample ID: 160-27321-9**
Date Collected: 03/12/18 11:34 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.039	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 13:54	1

Client Sample ID: B3H235 — **Lab Sample ID: 160-27321-10**
Date Collected: 03/12/18 11:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 89.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	U	0.043	0.014	mg/Kg	☼	03/19/18 08:46	03/21/18 13:56	1

Client Sample ID: B3H245 — **Lab Sample ID: 160-27321-11**
Date Collected: 03/12/18 11:16 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	U	0.036	0.012	mg/Kg	☼	03/19/18 08:46	03/21/18 13:58	1

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3H248 — **Lab Sample ID: 160-27321-12**
Date Collected: 03/12/18 13:16 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.039	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 14:05	1

Client Sample ID: B3H251 — **Lab Sample ID: 160-27321-13**
Date Collected: 03/12/18 13:21 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.040	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 14:07	1

Client Sample ID: B3H254 — **Lab Sample ID: 160-27321-14**
Date Collected: 03/12/18 13:25 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	U	0.037	0.012	mg/Kg	☼	03/19/18 08:46	03/21/18 14:08	1

Client Sample ID: B3H257 — **Lab Sample ID: 160-27321-15**
Date Collected: 03/12/18 13:29 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.040	0.013	mg/Kg	☼	03/19/18 08:46	03/21/18 14:10	1

General Chemistry

Client Sample ID: B3H226 — **Lab Sample ID: 160-27290-1**
Date Collected: 03/12/18 11:22 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 88.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.63**		0.56	0.25	mg/Kg	☼	04/09/18 16:20	04/09/18 17:59	1
Cyanide, Total	0.13	U	0.56	0.13	mg/Kg	☼	03/21/18 15:00	03/22/18 13:25	1

Client Sample ID: B3H1X9 — **Lab Sample ID: 160-27290-2**
Date Collected: 03/12/18 09:45 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 85.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.83**		0.58	0.26	mg/Kg	☼	04/09/18 16:20	04/09/18 18:06	1
Cyanide, Total	0.13	U	0.58	0.13	mg/Kg	☼	03/21/18 15:00	03/22/18 13:36	1

Client Sample ID: B3H237 — **Lab Sample ID: 160-27290-3**
Date Collected: 03/12/18 11:15 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 91.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.29**	**B**	0.54	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:09	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 13:39	1

Client Sample ID: B3H212 — **Lab Sample ID: 160-27290-4**
Date Collected: 03/12/18 10:27 — **Matrix: Soil**
Date Received: 03/13/18 09:40 — **Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.46**	**B**	0.54	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:11	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 13:42	1

General Chemistry

Client Sample ID: B3H1X0 — **Lab Sample ID: 160-27321-1**
Date Collected: 03/12/18 09:30 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.89		0.53	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:18	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 13:46	1

Client Sample ID: B3H1X3 — **Lab Sample ID: 160-27321-2**
Date Collected: 03/12/18 09:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.45	B	0.54	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:21	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 13:56	1

Client Sample ID: B3H1X6 — **Lab Sample ID: 160-27321-3**
Date Collected: 03/12/18 09:40 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.75		0.53	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:23	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 13:59	1

Client Sample ID: B3H206 — **Lab Sample ID: 160-27321-5**
Date Collected: 03/12/18 10:17 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.85		0.54	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:25	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:03	1

Client Sample ID: B3H209 — **Lab Sample ID: 160-27321-6**
Date Collected: 03/12/18 10:21 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 90.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.78		0.55	0.25	mg/Kg	☼	04/09/18 16:20	04/09/18 18:28	1
Cyanide, Total	0.12	U	0.55	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:06	1

Client Sample ID: B3H215 — **Lab Sample ID: 160-27321-7**
Date Collected: 03/12/18 10:52 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.68		0.52	0.23	mg/Kg	☼	04/09/18 16:20	04/09/18 18:30	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:10	1

Client Sample ID: B3H229 — **Lab Sample ID: 160-27321-8**
Date Collected: 03/12/18 11:27 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 92.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.56		0.54	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:33	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:13	1

Client Sample ID: B3H232 — **Lab Sample ID: 160-27321-9**
Date Collected: 03/12/18 11:34 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.52	B	0.53	0.23	mg/Kg	☼	04/09/18 16:20	04/09/18 18:35	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:16	1

General Chemistry

Client Sample ID: B3H235 — **Lab Sample ID: 160-27321-10**
Date Collected: 03/12/18 11:35 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 89.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.56**		0.56	0.25	mg/Kg	☼	04/09/18 16:20	04/09/18 18:37	1
Cyanide, Total	0.12	U	0.55	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:20	1

Client Sample ID: B3H245 — **Lab Sample ID: 160-27321-11**
Date Collected: 03/12/18 11:16 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.28**	**B**	0.50	0.22	mg/Kg	☼	04/09/18 16:20	04/09/18 18:40	1
Cyanide, Total	0.11	U	0.49	0.11	mg/Kg	☼	03/21/18 15:00	03/22/18 14:23	1

Client Sample ID: B3H248 — **Lab Sample ID: 160-27321-12**
Date Collected: 03/12/18 13:16 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**1.3**		0.53	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:47	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:27	1

Client Sample ID: B3H251 — **Lab Sample ID: 160-27321-13**
Date Collected: 03/12/18 13:21 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.68**		0.53	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:49	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:37	1

Client Sample ID: B3H254 — **Lab Sample ID: 160-27321-14**
Date Collected: 03/12/18 13:25 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.48**	**B**	0.52	0.23	mg/Kg	☼	04/09/18 16:20	04/09/18 18:52	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:40	1

Client Sample ID: B3H257 — **Lab Sample ID: 160-27321-15**
Date Collected: 03/12/18 13:29 — **Matrix: Soil**
Date Received: 03/14/18 09:05 — **Percent Solids: 93.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.61**		0.53	0.24	mg/Kg	☼	04/09/18 16:20	04/09/18 18:54	1
Cyanide, Total	0.12	U N	0.53	0.12	mg/Kg	☼	03/21/18 15:00	03/22/18 14:44	1

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

Lab Sample ID: MB 160-356750/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 356874 — **Prep Batch: 356750**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	46	U	330	46	ug/Kg		03/20/18 15:35	03/21/18 11:04	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*318*	*N J*	*ug/Kg*		*3.61*	*141-79-7*	*03/20/18 15:35*	*03/21/18 11:04*	*1*
Unknown	*15800*	*N*	*ug/Kg*		*3.99*		*03/20/18 15:35*	*03/21/18 11:04*	*1*
Unknown	*285*	*N*	*ug/Kg*		*4.50*		*03/20/18 15:35*	*03/21/18 11:04*	*1*
Unknown	*226*	*N*	*ug/Kg*		*6.02*		*03/20/18 15:35*	*03/21/18 11:04*	*1*
Cycloeicosane	*388*	*N J*	*ug/Kg*		*12.38*	*296-56-0*	*03/20/18 15:35*	*03/21/18 11:04*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*47 - 125*	*03/20/18 15:35*	*03/21/18 11:04*	*1*
2-Fluorobiphenyl (Surr)	*84*		*59 - 110*	*03/20/18 15:35*	*03/21/18 11:04*	*1*
2-Fluorophenol (Surr)	*89*		*54 - 102*	*03/20/18 15:35*	*03/21/18 11:04*	*1*
Nitrobenzene-d5 (Surr)	*80*		*44 - 120*	*03/20/18 15:35*	*03/21/18 11:04*	*1*
Phenol-d5 (Surr)	*83*		*51 - 104*	*03/20/18 15:35*	*03/21/18 11:04*	*1*
Terphenyl-d14 (Surr)	*100*	*X*	*59 - 98*	*03/20/18 15:35*	*03/21/18 11:04*	*1*

Lab Sample ID: LCS 160-356750/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 356874 — **Prep Batch: 356750**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tributyl phosphate	1670	1420		ug/Kg		85	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*90*		*47 - 125*
2-Fluorobiphenyl (Surr)	*84*		*59 - 110*
2-Fluorophenol (Surr)	*90*		*54 - 102*
Nitrobenzene-d5 (Surr)	*82*		*44 - 120*
Phenol-d5 (Surr)	*85*		*51 - 104*
Terphenyl-d14 (Surr)	*100*	*X*	*59 - 98*

Lab Sample ID: 160-27321-5 MS — **Client Sample ID: B3H206**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 356874 — **Prep Batch: 356750**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tributyl phosphate	49	U	1790	1390		ug/Kg	☼	77	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*79*		*47 - 125*
2-Fluorobiphenyl (Surr)	*76*		*59 - 110*
2-Fluorophenol (Surr)	*81*		*54 - 102*
Nitrobenzene-d5 (Surr)	*74*		*44 - 120*
Phenol-d5 (Surr)	*78*		*51 - 104*
Terphenyl-d14 (Surr)	*91*		*59 - 98*

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

Lab Sample ID: 160-27321-5 MSD — **Client Sample ID: B3H206**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 356874 — **Prep Batch: 356750**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tributyl phosphate	49	U	1790	1510		ug/Kg	☼	84	50 - 150	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*47 - 125*
2-Fluorobiphenyl (Surr)	*82*		*59 - 110*
2-Fluorophenol (Surr)	*87*		*54 - 102*
Nitrobenzene-d5 (Surr)	*78*		*44 - 120*
Phenol-d5 (Surr)	*82*		*51 - 104*
Terphenyl-d14 (Surr)	*97*		*59 - 98*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 160-356705/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357974 — **Prep Batch: 356705**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.4	U	25	2.4	mg/Kg		03/20/18 11:15	03/28/18 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*49 - 133*	*03/20/18 11:15*	*03/28/18 12:45*	*1*

Lab Sample ID: LCS 160-356705/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357974 — **Prep Batch: 356705**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	60.0		mg/Kg		72	57 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*84*		*49 - 133*

Lab Sample ID: 160-27321-1 MS — **Client Sample ID: B3H1X0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357974 — **Prep Batch: 356705**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2.6	U	88.5	65.9		mg/Kg	☼	74	34 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*88*		*49 - 133*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 160-27321-1 MSD — **Client Sample ID: B3H1X0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357974 — **Prep Batch: 356705**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.6	U	88.5	67.6		mg/Kg	☼	76	34 - 150	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*88*		*49 - 133*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-355841/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357472 — **Prep Batch: 355841**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.8	U D	4.4	1.8	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Arsenic	0.35	U D	0.88	0.35	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Barium	0.44	U D	1.8	0.44	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Cadmium	0.021	U D	0.044	0.021	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Chromium	0.40	U D	0.88	0.40	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Copper	0.35	U D	0.88	0.35	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Lead	0.11	U D	0.26	0.11	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Manganese	0.18	U D	0.44	0.18	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Nickel	0.18	U D	0.44	0.18	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Selenium	0.28	U D	0.44	0.28	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Silver	0.066	U D	0.18	0.066	mg/Kg		03/15/18 10:35	03/22/18 23:11	2
Uranium	0.035	U D	0.088	0.035	mg/Kg		03/15/18 10:35	03/22/18 23:11	2

Lab Sample ID: LCS 160-355841/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357472 — **Prep Batch: 355841**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	95.0	91.09	D	mg/Kg		96	80 - 120

Lab Sample ID: LCSSRM 160-355841/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357472 — **Prep Batch: 355841**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	6416	D	mg/Kg		79.3	39.6 - 160.7
Arsenic	100	96.00	D	mg/Kg		96.0	69.6 - 131.0
Barium	217	187.1	D	mg/Kg		86.2	73.7 - 128.1
Cadmium	83.7	69.19	D	mg/Kg		82.7	73.2 - 131.4
Chromium	107	98.29	D	mg/Kg		91.9	69.4 - 134.6
Copper	166	171.1	D	mg/Kg		103.1	75.3 - 128.3

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-355841/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357472 — **Prep Batch: 355841**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	88.4	79.61	D	mg/Kg		90.1	69.9 - 130.1
Manganese	311	315.5	D	mg/Kg		101.4	74.9 - 125.4
Nickel	49.8	50.16	D	mg/Kg		100.7	69.1 - 135.1
Selenium	87.7	85.54	D	mg/Kg		97.5	64.1 - 135.7
Silver	41.4	35.79	D	mg/Kg		86.4	65.9 - 133.8

Lab Sample ID: 160-27290-1 MS — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357472 — **Prep Batch: 355841**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	6520	D	1090	10200	X D	mg/Kg	☼	340	75 - 125
Arsenic	6.7	D	109	116.2	D	mg/Kg	☼	101	75 - 125
Barium	88.6	D	109	201.2	D	mg/Kg	☼	104	75 - 125
Cadmium	0.12	D	109	108.2	D	mg/Kg	☼	100	75 - 125
Chromium	9.9	D	109	113.8	D	mg/Kg	☼	96	75 - 125
Copper	16.5	D	109	130.1	D	mg/Kg	☼	105	75 - 125
Lead	6.5	D	109	118.5	D	mg/Kg	☼	103	75 - 125
Manganese	398	D N	109	574.2	D N	mg/Kg	☼	162	75 - 125
Nickel	10.7	D	109	128.2	D	mg/Kg	☼	108	75 - 125
Selenium	1.5	D	54.3	53.54	D	mg/Kg	☼	96	75 - 125
Silver	0.18	U D	21.7	22.37	D	mg/Kg	☼	103	75 - 125
Uranium	0.65	D	109	115.9	D	mg/Kg	☼	106	75 - 125

Lab Sample ID: 160-27290-1 MSD — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357472 — **Prep Batch: 355841**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	6520	D	963	9377	X D	mg/Kg	☼	297	75 - 125	8	30
Arsenic	6.7	D	96.3	100.6	D	mg/Kg	☼	97	75 - 125	14	30
Barium	88.6	D	96.3	180.5	D	mg/Kg	☼	95	75 - 125	11	30
Cadmium	0.12	D	96.3	91.54	D	mg/Kg	☼	95	75 - 125	17	30
Chromium	9.9	D	96.3	103.4	D	mg/Kg	☼	97	75 - 125	10	30
Copper	16.5	D	96.3	113.5	D	mg/Kg	☼	101	75 - 125	14	30
Lead	6.5	D	96.3	101.8	D	mg/Kg	☼	99	75 - 125	15	30
Manganese	398	D N	96.3	518.4	X D	mg/Kg	☼	125	75 - 125	10	30
Nickel	10.7	D	96.3	119.7	D	mg/Kg	☼	113	75 - 125	7	30
Selenium	1.5	D	48.1	45.72	D	mg/Kg	☼	92	75 - 125	16	30
Silver	0.18	U D	19.3	18.80	D	mg/Kg	☼	98	75 - 125	17	30
Uranium	0.65	D	96.3	100.1	D	mg/Kg	☼	103	75 - 125	15	30

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-355842/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 358497 — **Prep Batch: 355842**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.19	U D	0.47	0.19	mg/Kg		03/15/18 10:36	04/02/18 10:34	2

Lab Sample ID: LCS 160-355842/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 358497 — **Prep Batch: 355842**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	47.1	46.70	D	mg/Kg		99	21 - 251

Lab Sample ID: 160-27290-1 MS — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 358497 — **Prep Batch: 355842**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.78	B D	51.3	50.58	D	mg/Kg	☼	97	75 - 125

Lab Sample ID: 160-27290-1 MSD — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 358497 — **Prep Batch: 355842**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.78	B D	52.6	52.69	D	mg/Kg	☼	99	75 - 125	4	30

Lab Sample ID: MB 160-356429/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357881 — **Prep Batch: 356429**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.00	B D	4.7	1.9	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Arsenic	0.38	U D	0.94	0.38	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Barium	0.47	U D	1.9	0.47	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Cadmium	0.023	U D	0.047	0.023	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Chromium	0.42	U D	0.94	0.42	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Copper	0.38	U D	0.94	0.38	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Lead	0.12	U D	0.28	0.12	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Manganese	0.204	B D	0.47	0.19	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Nickel	0.19	U D	0.47	0.19	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Selenium	0.30	U D	0.47	0.30	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Silver	0.071	U D	0.19	0.071	mg/Kg		03/19/18 11:08	03/28/18 01:00	2
Uranium	0.038	U D	0.094	0.038	mg/Kg		03/19/18 11:08	03/28/18 01:00	2

Lab Sample ID: LCS 160-356429/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357881 — **Prep Batch: 356429**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	91.3	89.36	D	mg/Kg		98	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-356429/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357881 — **Prep Batch: 356429**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	6611	D	mg/Kg		81.7	39.6 - 160.7
Arsenic	100	102.5	D	mg/Kg		102.5	69.6 - 131.0
Barium	217	215.0	D	mg/Kg		99.1	73.7 - 128.1
Cadmium	83.7	79.90	D	mg/Kg		95.5	73.2 - 131.4
Chromium	107	102.2	D	mg/Kg		95.6	69.4 - 134.6
Copper	166	182.4	D	mg/Kg		109.9	75.3 - 128.3
Lead	88.4	92.81	D	mg/Kg		105.0	69.9 - 130.1
Manganese	311	337.9	D	mg/Kg		108.6	74.9 - 125.4
Nickel	49.8	53.69	D	mg/Kg		107.8	69.1 - 135.1
Selenium	87.7	89.97	D	mg/Kg		102.6	64.1 - 135.7
Silver	41.4	43.70	D	mg/Kg		105.5	65.9 - 133.8

Lab Sample ID: 160-27321-1 MS — **Client Sample ID: B3H1X0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357881 — **Prep Batch: 356429**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	6060	D	1030	9032	D X	mg/Kg	☼	289	75 - 125
Arsenic	3.7	D	103	99.73	D	mg/Kg	☼	93	75 - 125
Barium	88.0	D	103	194.5	D	mg/Kg	☼	104	75 - 125
Cadmium	0.094	B D	103	97.94	D	mg/Kg	☼	95	75 - 125
Chromium	8.3	D	103	102.0	D	mg/Kg	☼	91	75 - 125
Copper	12.8	D	103	117.1	D	mg/Kg	☼	101	75 - 125
Lead	5.2	D	103	104.8	D	mg/Kg	☼	97	75 - 125
Manganese	370	D N	103	496.0	D	mg/Kg	☼	123	75 - 125
Nickel	10.6	D	103	113.1	D	mg/Kg	☼	100	75 - 125
Selenium	1.3	D	51.4	47.66	D	mg/Kg	☼	90	75 - 125
Silver	0.18	U D	20.6	19.92	D	mg/Kg	☼	97	75 - 125
Uranium	0.39	D	103	102.9	D	mg/Kg	☼	100	75 - 125

Lab Sample ID: 160-27321-1 MSD — **Client Sample ID: B3H1X0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357881 — **Prep Batch: 356429**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	6060	D	930	8765	D X	mg/Kg	☼	291	75 - 125	3	30
Arsenic	3.7	D	93.0	90.97	D	mg/Kg	☼	94	75 - 125	9	30
Barium	88.0	D	93.0	184.2	D	mg/Kg	☼	103	75 - 125	5	30
Cadmium	0.094	B D	93.0	88.43	D	mg/Kg	☼	95	75 - 125	10	30
Chromium	8.3	D	93.0	92.99	D	mg/Kg	☼	91	75 - 125	9	30

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-27321-1 MSD — **Client Sample ID: B3H1X0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357881 — **Prep Batch: 356429**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	12.8	D	93.0	107.5	D	mg/Kg	☼	102	75 - 125	9	30
Lead	5.2	D	93.0	96.47	D	mg/Kg	☼	98	75 - 125	8	30
Manganese	370	D N	93.0	547.1	D N	mg/Kg	☼	191	75 - 125	10	30
Nickel	10.6	D	93.0	103.8	D	mg/Kg	☼	100	75 - 125	9	30
Selenium	1.3	D	46.5	43.49	D	mg/Kg	☼	91	75 - 125	9	30
Silver	0.18	U D	18.6	17.74	D	mg/Kg	☼	95	75 - 125	12	30
Uranium	0.39	D	93.0	94.98	D	mg/Kg	☼	102	75 - 125	8	30

Lab Sample ID: MB 160-356432/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 358564 — **Prep Batch: 356432**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.18	U D	0.46	0.18	mg/Kg		03/19/18 11:12	04/02/18 20:41	2

Lab Sample ID: LCS 160-356432/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 358564 — **Prep Batch: 356432**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	46.8	44.31	D	mg/Kg		95	21 - 251

Lab Sample ID: 160-27321-1 MS — **Client Sample ID: B3H1X0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 358564 — **Prep Batch: 356432**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.47	U D	49.9	48.36	D	mg/Kg	☼	97	75 - 125

Lab Sample ID: 160-27321-1 MSD — **Client Sample ID: B3H1X0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 358564 — **Prep Batch: 356432**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.47	U D	50.7	48.48	D	mg/Kg	☼	96	75 - 125	0	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-356231/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 356987 — **Prep Batch: 356231**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	U	0.035	0.012	mg/Kg		03/19/18 08:46	03/21/18 13:15	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 160-356231/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 356987 — **Prep Batch: 356231**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.90	3.13	D	mg/Kg		108.1	50.7 - 149.3

Lab Sample ID: 160-27290-1 MS — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 356987 — **Prep Batch: 356231**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.014	U	1.06	1.17		mg/Kg	☼	111	80 - 120

Lab Sample ID: 160-27290-1 MSD — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 356987 — **Prep Batch: 356231**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.014	U	1.09	1.17		mg/Kg	☼	108	80 - 120	0	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-359747/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 360073 — **Prep Batch: 359747**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.22	U	0.50	0.22	mg/Kg		04/09/18 16:20	04/09/18 17:50	1

Lab Sample ID: LCS 160-359747/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 360073 — **Prep Batch: 359747**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	4.72		mg/Kg		94	90 - 110

Lab Sample ID: 160-27290-1 MS — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 360073 — **Prep Batch: 359747**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.63		5.62	6.52		mg/Kg	☼	105	90 - 110

Lab Sample ID: 160-27321-15 MS — **Client Sample ID: B3H257**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 360073 — **Prep Batch: 359747**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.61		5.32	6.41		mg/Kg	☼	109	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 160-27290-1 DU — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 360073 — **Prep Batch: 359747**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia (as N)	0.63			0.599		mg/Kg	☼			6	30

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 160-356925/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357248 — **Prep Batch: 356925**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11	U	0.50	0.11	mg/Kg		03/21/18 15:00	03/22/18 13:15	1

Lab Sample ID: HLCS 160-356925/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357248 — **Prep Batch: 356925**

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			4.80	4.62		mg/Kg		96	85 - 115		

Lab Sample ID: LCS 160-356925/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 357248 — **Prep Batch: 356925**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			2.40	2.15		mg/Kg		89	85 - 115		

Lab Sample ID: 160-27290-1 MS — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357248 — **Prep Batch: 356925**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.13	U	2.69	1.82		mg/Kg	☼	67	60 - 130		

Lab Sample ID: 160-27321-15 MS — **Client Sample ID: B3H257**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357248 — **Prep Batch: 356925**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.12	U N	2.54	1.43	N	mg/Kg	☼	56	60 - 130		

Lab Sample ID: 160-27290-1 DU — **Client Sample ID: B3H226**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 357248 — **Prep Batch: 356925**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.13	U		0.13	U	mg/Kg	☼			NC	30

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-27290-1
SDG: SL2820

GC/MS Semi VOA

Prep Batch: 356750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	3550C	
160-27290-2	B3H1X9	Total/NA	Soil	3550C	
160-27290-3	B3H237	Total/NA	Soil	3550C	
160-27290-4	B3H212	Total/NA	Soil	3550C	
160-27321-1	B3H1X0	Total/NA	Soil	3550C	
160-27321-2	B3H1X3	Total/NA	Soil	3550C	
160-27321-3	B3H1X6	Total/NA	Soil	3550C	
160-27321-4	B3H1Y1	Total/NA	Soil	3550C	
160-27321-5	B3H206	Total/NA	Soil	3550C	
160-27321-6	B3H209	Total/NA	Soil	3550C	
160-27321-7	B3H215	Total/NA	Soil	3550C	
160-27321-8	B3H229	Total/NA	Soil	3550C	
160-27321-9	B3H232	Total/NA	Soil	3550C	
160-27321-10	B3H235	Total/NA	Soil	3550C	
160-27321-11	B3H245	Total/NA	Soil	3550C	
MB 160-356750/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 160-356750/2-A	Lab Control Sample	Total/NA	Solid	3550C	
160-27321-5 MS	B3H206	Total/NA	Soil	3550C	
160-27321-5 MSD	B3H206	Total/NA	Soil	3550C	

Analysis Batch: 356874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	8270D	356750
160-27290-2	B3H1X9	Total/NA	Soil	8270D	356750
160-27290-3	B3H237	Total/NA	Soil	8270D	356750
160-27290-4	B3H212	Total/NA	Soil	8270D	356750
160-27321-1	B3H1X0	Total/NA	Soil	8270D	356750
160-27321-2	B3H1X3	Total/NA	Soil	8270D	356750
160-27321-3	B3H1X6	Total/NA	Soil	8270D	356750
160-27321-4	B3H1Y1	Total/NA	Soil	8270D	356750
160-27321-5	B3H206	Total/NA	Soil	8270D	356750
160-27321-6	B3H209	Total/NA	Soil	8270D	356750
160-27321-7	B3H215	Total/NA	Soil	8270D	356750
160-27321-8	B3H229	Total/NA	Soil	8270D	356750
160-27321-9	B3H232	Total/NA	Soil	8270D	356750
160-27321-10	B3H235	Total/NA	Soil	8270D	356750
160-27321-11	B3H245	Total/NA	Soil	8270D	356750
MB 160-356750/1-A	Method Blank	Total/NA	Solid	8270D	356750
LCS 160-356750/2-A	Lab Control Sample	Total/NA	Solid	8270D	356750
160-27321-5 MS	B3H206	Total/NA	Soil	8270D	356750
160-27321-5 MSD	B3H206	Total/NA	Soil	8270D	356750

GC Semi VOA

Prep Batch: 356705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	3550C	
160-27290-2	B3H1X9	Total/NA	Soil	3550C	
160-27290-3	B3H237	Total/NA	Soil	3550C	
160-27290-4	B3H212	Total/NA	Soil	3550C	

GC Semi VOA (Continued)

Prep Batch: 356705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-1	B3H1X0	Total/NA	Soil	3550C	
160-27321-2	B3H1X3	Total/NA	Soil	3550C	
160-27321-3	B3H1X6	Total/NA	Soil	3550C	
160-27321-4	B3H1Y1	Total/NA	Soil	3550C	
160-27321-5	B3H206	Total/NA	Soil	3550C	
160-27321-6	B3H209	Total/NA	Soil	3550C	
160-27321-7	B3H215	Total/NA	Soil	3550C	
160-27321-8	B3H229	Total/NA	Soil	3550C	
160-27321-9	B3H232	Total/NA	Soil	3550C	
160-27321-10	B3H235	Total/NA	Soil	3550C	
160-27321-11	B3H245	Total/NA	Soil	3550C	
MB 160-356705/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 160-356705/2-A	Lab Control Sample	Total/NA	Solid	3550C	
160-27321-1 MS	B3H1X0	Total/NA	Soil	3550C	
160-27321-1 MSD	B3H1X0	Total/NA	Soil	3550C	

Analysis Batch: 357974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	8015B	356705
160-27290-2	B3H1X9	Total/NA	Soil	8015B	356705
160-27290-3	B3H237	Total/NA	Soil	8015B	356705
160-27290-4	B3H212	Total/NA	Soil	8015B	356705
160-27321-1	B3H1X0	Total/NA	Soil	8015B	356705
160-27321-2	B3H1X3	Total/NA	Soil	8015B	356705
160-27321-3	B3H1X6	Total/NA	Soil	8015B	356705
160-27321-4	B3H1Y1	Total/NA	Soil	8015B	356705
160-27321-5	B3H206	Total/NA	Soil	8015B	356705
160-27321-6	B3H209	Total/NA	Soil	8015B	356705
160-27321-7	B3H215	Total/NA	Soil	8015B	356705
160-27321-8	B3H229	Total/NA	Soil	8015B	356705
160-27321-9	B3H232	Total/NA	Soil	8015B	356705
160-27321-10	B3H235	Total/NA	Soil	8015B	356705
160-27321-11	B3H245	Total/NA	Soil	8015B	356705
MB 160-356705/1-A	Method Blank	Total/NA	Solid	8015B	356705
LCS 160-356705/2-A	Lab Control Sample	Total/NA	Solid	8015B	356705
160-27321-1 MS	B3H1X0	Total/NA	Soil	8015B	356705
160-27321-1 MSD	B3H1X0	Total/NA	Soil	8015B	356705

Metals

Prep Batch: 355841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	3050B	
160-27290-2	B3H1X9	Total/NA	Soil	3050B	
160-27290-3	B3H237	Total/NA	Soil	3050B	
160-27290-4	B3H212	Total/NA	Soil	3050B	
MB 160-355841/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-355841/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-355841/3-A	Lab Control Sample	Total/NA	Solid	3050B	
160-27290-1 MS	B3H226	Total/NA	Soil	3050B	

Metals (Continued)

Prep Batch: 355841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1 MSD	B3H226	Total/NA	Soil	3050B	

Prep Batch: 355842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	3050B-Sb	
160-27290-2	B3H1X9	Total/NA	Soil	3050B-Sb	
160-27290-3	B3H237	Total/NA	Soil	3050B-Sb	
160-27290-4	B3H212	Total/NA	Soil	3050B-Sb	
MB 160-355842/1-A	Method Blank	Total/NA	Solid	3050B-Sb	
LCS 160-355842/2-A	Lab Control Sample	Total/NA	Solid	3050B-Sb	
160-27290-1 MS	B3H226	Total/NA	Soil	3050B-Sb	
160-27290-1 MSD	B3H226	Total/NA	Soil	3050B-Sb	

Prep Batch: 356231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	7471B	
160-27290-2	B3H1X9	Total/NA	Soil	7471B	
160-27290-3	B3H237	Total/NA	Soil	7471B	
160-27290-4	B3H212	Total/NA	Soil	7471B	
160-27321-1	B3H1X0	Total/NA	Soil	7471B	
160-27321-2	B3H1X3	Total/NA	Soil	7471B	
160-27321-3	B3H1X6	Total/NA	Soil	7471B	
160-27321-4	B3H1Y1	Total/NA	Soil	7471B	
160-27321-5	B3H206	Total/NA	Soil	7471B	
160-27321-6	B3H209	Total/NA	Soil	7471B	
160-27321-7	B3H215	Total/NA	Soil	7471B	
160-27321-8	B3H229	Total/NA	Soil	7471B	
160-27321-9	B3H232	Total/NA	Soil	7471B	
160-27321-10	B3H235	Total/NA	Soil	7471B	
160-27321-11	B3H245	Total/NA	Soil	7471B	
160-27321-12	B3H248	Total/NA	Soil	7471B	
160-27321-13	B3H251	Total/NA	Soil	7471B	
160-27321-14	B3H254	Total/NA	Soil	7471B	
160-27321-15	B3H257	Total/NA	Soil	7471B	
MB 160-356231/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 160-356231/2-A	Lab Control Sample	Total/NA	Solid	7471B	
160-27290-1 MS	B3H226	Total/NA	Soil	7471B	
160-27290-1 MSD	B3H226	Total/NA	Soil	7471B	

Prep Batch: 356429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-1	B3H1X0	Total/NA	Soil	3050B	
160-27321-2	B3H1X3	Total/NA	Soil	3050B	
160-27321-3	B3H1X6	Total/NA	Soil	3050B	
160-27321-4	B3H1Y1	Total/NA	Soil	3050B	
160-27321-5	B3H206	Total/NA	Soil	3050B	
160-27321-6	B3H209	Total/NA	Soil	3050B	
160-27321-7	B3H215	Total/NA	Soil	3050B	
160-27321-8	B3H229	Total/NA	Soil	3050B	
160-27321-9	B3H232	Total/NA	Soil	3050B	
160-27321-10	B3H235	Total/NA	Soil	3050B	

Metals (Continued)

Prep Batch: 356429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-11	B3H245	Total/NA	Soil	3050B	
160-27321-12	B3H248	Total/NA	Soil	3050B	
160-27321-13	B3H251	Total/NA	Soil	3050B	
160-27321-14	B3H254	Total/NA	Soil	3050B	
160-27321-15	B3H257	Total/NA	Soil	3050B	
MB 160-356429/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-356429/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-356429/3-A	Lab Control Sample	Total/NA	Solid	3050B	
160-27321-1 MS	B3H1X0	Total/NA	Soil	3050B	
160-27321-1 MSD	B3H1X0	Total/NA	Soil	3050B	

Prep Batch: 356432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-1	B3H1X0	Total/NA	Soil	3050B-Sb	
160-27321-2	B3H1X3	Total/NA	Soil	3050B-Sb	
160-27321-3	B3H1X6	Total/NA	Soil	3050B-Sb	
160-27321-4	B3H1Y1	Total/NA	Soil	3050B-Sb	
160-27321-5	B3H206	Total/NA	Soil	3050B-Sb	
160-27321-6	B3H209	Total/NA	Soil	3050B-Sb	
160-27321-7	B3H215	Total/NA	Soil	3050B-Sb	
160-27321-8	B3H229	Total/NA	Soil	3050B-Sb	
160-27321-9	B3H232	Total/NA	Soil	3050B-Sb	
160-27321-10	B3H235	Total/NA	Soil	3050B-Sb	
160-27321-11	B3H245	Total/NA	Soil	3050B-Sb	
160-27321-12	B3H248	Total/NA	Soil	3050B-Sb	
160-27321-13	B3H251	Total/NA	Soil	3050B-Sb	
160-27321-14	B3H254	Total/NA	Soil	3050B-Sb	
160-27321-15	B3H257	Total/NA	Soil	3050B-Sb	
MB 160-356432/1-A	Method Blank	Total/NA	Solid	3050B-Sb	
LCS 160-356432/2-A	Lab Control Sample	Total/NA	Solid	3050B-Sb	
160-27321-1 MS	B3H1X0	Total/NA	Soil	3050B-Sb	
160-27321-1 MSD	B3H1X0	Total/NA	Soil	3050B-Sb	

Analysis Batch: 356987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	7471B	356231
160-27290-2	B3H1X9	Total/NA	Soil	7471B	356231
160-27290-3	B3H237	Total/NA	Soil	7471B	356231
160-27290-4	B3H212	Total/NA	Soil	7471B	356231
160-27321-1	B3H1X0	Total/NA	Soil	7471B	356231
160-27321-2	B3H1X3	Total/NA	Soil	7471B	356231
160-27321-3	B3H1X6	Total/NA	Soil	7471B	356231
160-27321-4	B3H1Y1	Total/NA	Soil	7471B	356231
160-27321-5	B3H206	Total/NA	Soil	7471B	356231
160-27321-6	B3H209	Total/NA	Soil	7471B	356231
160-27321-7	B3H215	Total/NA	Soil	7471B	356231
160-27321-8	B3H229	Total/NA	Soil	7471B	356231
160-27321-9	B3H232	Total/NA	Soil	7471B	356231
160-27321-10	B3H235	Total/NA	Soil	7471B	356231
160-27321-11	B3H245	Total/NA	Soil	7471B	356231
160-27321-12	B3H248	Total/NA	Soil	7471B	356231

Metals (Continued)

Analysis Batch: 356987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-13	B3H251	Total/NA	Soil	7471B	356231
160-27321-14	B3H254	Total/NA	Soil	7471B	356231
160-27321-15	B3H257	Total/NA	Soil	7471B	356231
MB 160-356231/1-A	Method Blank	Total/NA	Solid	7471B	356231
LCSSRM 160-356231/2-A	Lab Control Sample	Total/NA	Solid	7471B	356231
160-27290-1 MS	B3H226	Total/NA	Soil	7471B	356231
160-27290-1 MSD	B3H226	Total/NA	Soil	7471B	356231

Analysis Batch: 357472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	6020A	355841
160-27290-2	B3H1X9	Total/NA	Soil	6020A	355841
160-27290-3	B3H237	Total/NA	Soil	6020A	355841
160-27290-4	B3H212	Total/NA	Soil	6020A	355841
MB 160-355841/1-A	Method Blank	Total/NA	Solid	6020A	355841
LCS 160-355841/2-A	Lab Control Sample	Total/NA	Solid	6020A	355841
LCSSRM 160-355841/3-A	Lab Control Sample	Total/NA	Solid	6020A	355841
160-27290-1 MS	B3H226	Total/NA	Soil	6020A	355841
160-27290-1 MSD	B3H226	Total/NA	Soil	6020A	355841

Analysis Batch: 357881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-1	B3H1X0	Total/NA	Soil	6020A	356429
160-27321-2	B3H1X3	Total/NA	Soil	6020A	356429
160-27321-3	B3H1X6	Total/NA	Soil	6020A	356429
160-27321-4	B3H1Y1	Total/NA	Soil	6020A	356429
160-27321-5	B3H206	Total/NA	Soil	6020A	356429
160-27321-6	B3H209	Total/NA	Soil	6020A	356429
160-27321-7	B3H215	Total/NA	Soil	6020A	356429
160-27321-8	B3H229	Total/NA	Soil	6020A	356429
160-27321-9	B3H232	Total/NA	Soil	6020A	356429
160-27321-10	B3H235	Total/NA	Soil	6020A	356429
160-27321-11	B3H245	Total/NA	Soil	6020A	356429
160-27321-12	B3H248	Total/NA	Soil	6020A	356429
160-27321-13	B3H251	Total/NA	Soil	6020A	356429
160-27321-14	B3H254	Total/NA	Soil	6020A	356429
160-27321-15	B3H257	Total/NA	Soil	6020A	356429
MB 160-356429/1-A	Method Blank	Total/NA	Solid	6020A	356429
LCS 160-356429/2-A	Lab Control Sample	Total/NA	Solid	6020A	356429
LCSSRM 160-356429/3-A	Lab Control Sample	Total/NA	Solid	6020A	356429
160-27321-1 MS	B3H1X0	Total/NA	Soil	6020A	356429
160-27321-1 MSD	B3H1X0	Total/NA	Soil	6020A	356429

Analysis Batch: 358497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	6020A	355842
160-27290-2	B3H1X9	Total/NA	Soil	6020A	355842
160-27290-3	B3H237	Total/NA	Soil	6020A	355842
160-27290-4	B3H212	Total/NA	Soil	6020A	355842
MB 160-355842/1-A	Method Blank	Total/NA	Solid	6020A	355842
LCS 160-355842/2-A	Lab Control Sample	Total/NA	Solid	6020A	355842

Metals (Continued)

Analysis Batch: 358497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1 MS	B3H226	Total/NA	Soil	6020A	355842
160-27290-1 MSD	B3H226	Total/NA	Soil	6020A	355842

Analysis Batch: 358564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-1	B3H1X0	Total/NA	Soil	6020A	356432
160-27321-2	B3H1X3	Total/NA	Soil	6020A	356432
160-27321-3	B3H1X6	Total/NA	Soil	6020A	356432
160-27321-4	B3H1Y1	Total/NA	Soil	6020A	356432
160-27321-5	B3H206	Total/NA	Soil	6020A	356432
160-27321-6	B3H209	Total/NA	Soil	6020A	356432
160-27321-7	B3H215	Total/NA	Soil	6020A	356432
160-27321-8	B3H229	Total/NA	Soil	6020A	356432
160-27321-9	B3H232	Total/NA	Soil	6020A	356432
160-27321-10	B3H235	Total/NA	Soil	6020A	356432
160-27321-11	B3H245	Total/NA	Soil	6020A	356432
160-27321-12	B3H248	Total/NA	Soil	6020A	356432
160-27321-13	B3H251	Total/NA	Soil	6020A	356432
160-27321-14	B3H254	Total/NA	Soil	6020A	356432
160-27321-15	B3H257	Total/NA	Soil	6020A	356432
MB 160-356432/1-A	Method Blank	Total/NA	Solid	6020A	356432
LCS 160-356432/2-A	Lab Control Sample	Total/NA	Solid	6020A	356432
160-27321-1 MS	B3H1X0	Total/NA	Soil	6020A	356432
160-27321-1 MSD	B3H1X0	Total/NA	Soil	6020A	356432

General Chemistry

Analysis Batch: 355364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	Moisture	
160-27290-2	B3H1X9	Total/NA	Soil	Moisture	
160-27290-3	B3H237	Total/NA	Soil	Moisture	
160-27290-4	B3H212	Total/NA	Soil	Moisture	
160-27291-A-2 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 355705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-1	B3H1X0	Total/NA	Soil	Moisture	
160-27321-2	B3H1X3	Total/NA	Soil	Moisture	
160-27321-3	B3H1X6	Total/NA	Soil	Moisture	
160-27321-4	B3H1Y1	Total/NA	Soil	Moisture	
160-27321-5	B3H206	Total/NA	Soil	Moisture	
160-27321-6	B3H209	Total/NA	Soil	Moisture	
160-27321-7	B3H215	Total/NA	Soil	Moisture	
160-27321-8	B3H229	Total/NA	Soil	Moisture	
160-27321-9	B3H232	Total/NA	Soil	Moisture	
160-27321-10	B3H235	Total/NA	Soil	Moisture	
160-27321-11	B3H245	Total/NA	Soil	Moisture	
160-27321-12	B3H248	Total/NA	Soil	Moisture	
160-27321-13	B3H251	Total/NA	Soil	Moisture	

General Chemistry (Continued)

Analysis Batch: 355705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-14	B3H254	Total/NA	Soil	Moisture	
160-27321-15	B3H257	Total/NA	Soil	Moisture	
160-27321-15 DU	B3H257	Total/NA	Soil	Moisture	

Prep Batch: 356925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	9010C	
160-27290-2	B3H1X9	Total/NA	Soil	9010C	
160-27290-3	B3H237	Total/NA	Soil	9010C	
160-27290-4	B3H212	Total/NA	Soil	9010C	
160-27321-1	B3H1X0	Total/NA	Soil	9010C	
160-27321-2	B3H1X3	Total/NA	Soil	9010C	
160-27321-3	B3H1X6	Total/NA	Soil	9010C	
160-27321-5	B3H206	Total/NA	Soil	9010C	
160-27321-6	B3H209	Total/NA	Soil	9010C	
160-27321-7	B3H215	Total/NA	Soil	9010C	
160-27321-8	B3H229	Total/NA	Soil	9010C	
160-27321-9	B3H232	Total/NA	Soil	9010C	
160-27321-10	B3H235	Total/NA	Soil	9010C	
160-27321-11	B3H245	Total/NA	Soil	9010C	
160-27321-12	B3H248	Total/NA	Soil	9010C	
160-27321-13	B3H251	Total/NA	Soil	9010C	
160-27321-14	B3H254	Total/NA	Soil	9010C	
160-27321-15	B3H257	Total/NA	Soil	9010C	
MB 160-356925/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 160-356925/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 160-356925/2-A	Lab Control Sample	Total/NA	Solid	9010C	
160-27290-1 MS	B3H226	Total/NA	Soil	9010C	
160-27321-15 MS	B3H257	Total/NA	Soil	9010C	
160-27290-1 DU	B3H226	Total/NA	Soil	9010C	

Analysis Batch: 357248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	9012B	356925
160-27290-2	B3H1X9	Total/NA	Soil	9012B	356925
160-27290-3	B3H237	Total/NA	Soil	9012B	356925
160-27290-4	B3H212	Total/NA	Soil	9012B	356925
160-27321-1	B3H1X0	Total/NA	Soil	9012B	356925
160-27321-2	B3H1X3	Total/NA	Soil	9012B	356925
160-27321-3	B3H1X6	Total/NA	Soil	9012B	356925
160-27321-5	B3H206	Total/NA	Soil	9012B	356925
160-27321-6	B3H209	Total/NA	Soil	9012B	356925
160-27321-7	B3H215	Total/NA	Soil	9012B	356925
160-27321-8	B3H229	Total/NA	Soil	9012B	356925
160-27321-9	B3H232	Total/NA	Soil	9012B	356925
160-27321-10	B3H235	Total/NA	Soil	9012B	356925
160-27321-11	B3H245	Total/NA	Soil	9012B	356925
160-27321-12	B3H248	Total/NA	Soil	9012B	356925
160-27321-13	B3H251	Total/NA	Soil	9012B	356925
160-27321-14	B3H254	Total/NA	Soil	9012B	356925
160-27321-15	B3H257	Total/NA	Soil	9012B	356925

General Chemistry (Continued)

Analysis Batch: 357248 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-356925/1-A	Method Blank	Total/NA	Solid	9012B	356925
HLCS 160-356925/3-A	Lab Control Sample	Total/NA	Solid	9012B	356925
LCS 160-356925/2-A	Lab Control Sample	Total/NA	Solid	9012B	356925
160-27290-1 MS	B3H226	Total/NA	Soil	9012B	356925
160-27321-15 MS	B3H257	Total/NA	Soil	9012B	356925
160-27290-1 DU	B3H226	Total/NA	Soil	9012B	356925

Prep Batch: 359747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	DILeach_Prep	
160-27290-2	B3H1X9	Total/NA	Soil	DILeach_Prep	
160-27290-3	B3H237	Total/NA	Soil	DILeach_Prep	
160-27290-4	B3H212	Total/NA	Soil	DILeach_Prep	
160-27321-1	B3H1X0	Total/NA	Soil	DILeach_Prep	
160-27321-2	B3H1X3	Total/NA	Soil	DILeach_Prep	
160-27321-3	B3H1X6	Total/NA	Soil	DILeach_Prep	
160-27321-5	B3H206	Total/NA	Soil	DILeach_Prep	
160-27321-6	B3H209	Total/NA	Soil	DILeach_Prep	
160-27321-7	B3H215	Total/NA	Soil	DILeach_Prep	
160-27321-8	B3H229	Total/NA	Soil	DILeach_Prep	
160-27321-9	B3H232	Total/NA	Soil	DILeach_Prep	
160-27321-10	B3H235	Total/NA	Soil	DILeach_Prep	
160-27321-11	B3H245	Total/NA	Soil	DILeach_Prep	
160-27321-12	B3H248	Total/NA	Soil	DILeach_Prep	
160-27321-13	B3H251	Total/NA	Soil	DILeach_Prep	
160-27321-14	B3H254	Total/NA	Soil	DILeach_Prep	
160-27321-15	B3H257	Total/NA	Soil	DILeach_Prep	
MB 160-359747/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	
LCS 160-359747/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
160-27290-1 MS	B3H226	Total/NA	Soil	DILeach_Prep	
160-27321-15 MS	B3H257	Total/NA	Soil	DILeach_Prep	
160-27290-1 DU	B3H226	Total/NA	Soil	DILeach_Prep	

Analysis Batch: 360073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27290-1	B3H226	Total/NA	Soil	350.1	359747
160-27290-2	B3H1X9	Total/NA	Soil	350.1	359747
160-27290-3	B3H237	Total/NA	Soil	350.1	359747
160-27290-4	B3H212	Total/NA	Soil	350.1	359747
160-27321-1	B3H1X0	Total/NA	Soil	350.1	359747
160-27321-2	B3H1X3	Total/NA	Soil	350.1	359747
160-27321-3	B3H1X6	Total/NA	Soil	350.1	359747
160-27321-5	B3H206	Total/NA	Soil	350.1	359747
160-27321-6	B3H209	Total/NA	Soil	350.1	359747
160-27321-7	B3H215	Total/NA	Soil	350.1	359747
160-27321-8	B3H229	Total/NA	Soil	350.1	359747
160-27321-9	B3H232	Total/NA	Soil	350.1	359747
160-27321-10	B3H235	Total/NA	Soil	350.1	359747
160-27321-11	B3H245	Total/NA	Soil	350.1	359747
160-27321-12	B3H248	Total/NA	Soil	350.1	359747
160-27321-13	B3H251	Total/NA	Soil	350.1	359747

General Chemistry (Continued)

Analysis Batch: 360073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27321-14	B3H254	Total/NA	Soil	350.1	359747
160-27321-15	B3H257	Total/NA	Soil	350.1	359747
MB 160-359747/1-A	Method Blank	Total/NA	Solid	350.1	359747
LCS 160-359747/2-A	Lab Control Sample	Total/NA	Solid	350.1	359747
160-27290-1 MS	B3H226	Total/NA	Soil	350.1	359747
160-27321-15 MS	B3H257	Total/NA	Soil	350.1	359747
160-27290-1 DU	B3H226	Total/NA	Soil	350.1	359747

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-27290-1
SDG: SL2820

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(47-125)	(59-110)	(54-102)	(44-120)	(51-104)	(59-98)
160-27290-1	B3H226	86	83	87	81	85	99 X
160-27290-2	B3H1X9	80	75	76	71	76	95
160-27290-3	B3H237	79	78	84	77	80	90
160-27290-4	B3H212	79	79	83	78	81	101 X
160-27321-1	B3H1X0	75	63	64	59	61	79
160-27321-2	B3H1X3	83	77	82	74	77	92
160-27321-3	B3H1X6	86	81	87	79	83	97
160-27321-4	B3H1Y1	88	82	85	79	82	100 X
160-27321-5	B3H206	86	84	89	82	86	102 X
160-27321-5 MS	B3H206	79	76	81	74	78	91
160-27321-5 MSD	B3H206	87	82	87	78	82	97
160-27321-6	B3H209	86	79	82	77	78	103 X
160-27321-7	B3H215	87	86	91	83	87	103 X
160-27321-8	B3H229	87	83	86	79	82	99 X
160-27321-9	B3H232	90	82	86	80	84	102 X
160-27321-10	B3H235	88	86	92	83	87	101 X
160-27321-11	B3H245	86	80	84	77	82	103 X

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(47-125)	(59-110)	(54-102)	(44-120)	(51-104)	(59-98)
LCS 160-356750/2-A	Lab Control Sample	90	84	90	82	85	100 X
MB 160-356750/1-A	Method Blank	85	84	89	80	83	100 X

Surrogate Legend

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

Method: 8015B - Diesel Range Organics (DRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH1
Lab Sample ID	Client Sample ID	(49-133)
160-27290-1	B3H226	94

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

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

Lab Sample ID	Client Sample ID	OTPH1 (49-133)
160-27290-2	B3H1X9	88
160-27290-3	B3H237	85
160-27290-4	B3H212	94
160-27321-1	B3H1X0	81
160-27321-1 MS	B3H1X0	88
160-27321-1 MSD	B3H1X0	88
160-27321-2	B3H1X3	84
160-27321-3	B3H1X6	88
160-27321-4	B3H1Y1	90
160-27321-5	B3H206	88
160-27321-6	B3H209	85
160-27321-7	B3H215	85
160-27321-8	B3H229	87
160-27321-9	B3H232	86
160-27321-10	B3H235	82
160-27321-11	B3H245	87

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

OTPH = o-Terphenyl

Method: 8015B - Diesel Range Organics (DRO) (GC)

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

Lab Sample ID	Client Sample ID	OTPH1 (49-133)
LCS 160-356705/2-A	Lab Control Sample	84
MB 160-356705/1-A	Method Blank	85

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

OTPH = o-Terphenyl