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: 160-26413-1
TestAmerica Sample Delivery Group: SL2793
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:
2/15/2018 4:42:33 PM

Jayna Awalt, Project Manager II
(314)298-8566
jayna.awalt@testamericainc.com

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.

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Job ID: 160-26413-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
February 15, 2018
Attention: Scot Fitzgerald

SDG	: SL2793
Number of Samples	: 18 samples
Sample Matrix	: Soil
Data Deliverable	: Summary
Date SDG Closed	: January 18, 2018

II. Introduction

On January 18, 18 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: 160-26413-1 (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.

WTPH - KEROSENE

Batch: 347740

The CCV surrogate recovery is outside the lower QC limits. The samples associated with the CCV's were within the acceptable QC limits. Results are provided with this narrative. B3FMF6 (160-26413-2), B3FMF3 (160-26413-3), B3FMF9 (160-26413-4), B3FMH2 (160-26413-5), B3FMH5 (160-26413-6), B3FMJ0 (160-26413-7), (CCV 160-347740/20), (LCS 160-347346/2-A), (MB 160-347346/1-A), (160-26413-B-3-C MS) and (160-26413-B-3-D MSD)

ICPMS Metals

Batch: 348796

Due to the high concentration of Aluminum, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-347204 and analytical batch 160-348796 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-26413-A-1-B MS) and (160-26413-A-1-C MSD)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-347204 and analytical batch 160-348796 were outside control limits for Manganese. Sample matrix interference is suspected because the associated laboratory control sample (LCS)

Job ID: 160-26413-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

recovery was within acceptance limits. (160-26413-A-1-B MS) and (160-26413-A-1-C MSD) This analyte has been qualified accordingly with an "N" flag in the associated samples.

The low level check (CCVL) was outside the upper QC limits for Cadmium. Associated samples which are below the reporting limit for the contaminant do not require re-analysis. Original results are reported. (CCVL 160-348796/51)

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: B3FL37 (160-26413-1), B3FMF6 (160-26413-2), B3FMF3 (160-26413-3), B3FMF9 (160-26413-4), B3FMH2 (160-26413-5), B3FMH5 (160-26413-6), B3FMD2 (160-26413-8), B3FLN8 (160-26413-9), B3FLN2 (160-26413-10), B3FLM9 (160-26413-11), B3FLV9 (160-26413-12), B3FLV3 (160-26413-13), B3FMC6 (160-26413-14), B3FMC3 (160-26413-15), B3FMC9 (160-26413-16), B3FLV1 (160-26413-17), B3FLV6 (160-26413-18), (160-26413-A-1-B MS), (160-26413-A-1-C MSD) and (160-26413-A-1-A SD). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Batch: 349938

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: B3FL37 (160-26413-1), B3FMF6 (160-26413-2), B3FMF3 (160-26413-3), B3FMF9 (160-26413-4), B3FMH2 (160-26413-5), B3FMH5 (160-26413-6), B3FMD2 (160-26413-8), B3FLN8 (160-26413-9), B3FLN2 (160-26413-10), B3FLM9 (160-26413-11), B3FLV9 (160-26413-12), B3FLV3 (160-26413-13), B3FMC6 (160-26413-14), B3FMC3 (160-26413-15), B3FMC9 (160-26413-16), B3FLV1 (160-26413-17), B3FLV6 (160-26413-18), (160-26413-A-1-B MS), (160-26413-A-1-C MSD) and (160-26413-A-1-A SD). Elevated reporting limits (RLs) are provided. This analyte has been qualified accordingly with a "D" flag in the associated samples.

Batch: 348776

The following samples were diluted due to the nature of the sample matrix. The samples were high in salts, which cause internal standard and QC failures when the samples are run at a lesser dilution: B3FL37 (160-26413-1), B3FMF6 (160-26413-2), B3FMF3 (160-26413-3), B3FMF9 (160-26413-4), B3FMH2 (160-26413-5), B3FMH5 (160-26413-6), B3FMD2 (160-26413-8), B3FLN8 (160-26413-9), B3FLN2 (160-26413-10), B3FLM9 (160-26413-11), B3FLV9 (160-26413-12), B3FLV3 (160-26413-13), B3FMC6 (160-26413-14), B3FMC3 (160-26413-15), B3FMC9 (160-26413-16), B3FLV1 (160-26413-17), B3FLV6 (160-26413-18), (160-26413-A-1-E MS), (160-26413-A-1-F MSD) and (160-26413-A-1-D SD). Elevated reporting limits (RLs) are provided. This analyte has been qualified accordingly with a "D" flag in the associated samples.

Ammonia as N

Batch: 350474

Ammonia was detected in method blank MB 160-350289/1-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”.

Reanalysis of the following sample in Ammonia preparation batch 160-350289 and analytical batch 160-350474 was performed one day outside of the analytical holding time due to a failed bracketing QC check (high CCB) that was recorded during the original, in hold analytical run: B3FLM9 (160-26413-11). This in hold run could not be reported; therefore, a SIR request was not sent.

Total Cyanide

Batch: 348795

The following samples in CN preparation batch 160-348657 and analytical batch 160-348795 were analyzed a few days after the 14 day holding time expired, but within 2x hold: B3FLN2 (160-26413-10) and B3FLM9 (160-26413-11) A temperature excursion in Cooler 3 required all bins and samples to be moved into Cooler 2. Because the bins were not placed in cooler 2 in an orderly manner, the analyst was unable to locate the samples in time to meet the holding time requirement. Per SIR18-0438, the data has been reported. Formal corrective action was completed and sent to the client.

Job ID: 160-26413-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

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

Semivolatiles
Mercury

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

SAMPLE ISSUE RESOLUTION (SIR) REPORT

SIR Number: SIR18-0438
Rev. Number: 0
Date Initiated: 01/31/2018

SAMPLE EVENT INFORMATION

SAF NUM(S): F17-062

LABORATORY: TASL

SAMPLING INFORMATION

NUMBER OF SAMPLES: 2

SAMPLE NUMBERS: B3FLM9, B3FLN2

SAMPLE MATRIX: SOIL

SDG NUM(S): SL2793

ISSUE BACKGROUND

CLASS: Laboratory Issue

TYPE: Analysis Holding Time Exceeded

DESCRIPTION: Samples from out of temp cooler 3 were moved to cooler 2 but were not found by analyst until they were out of hold for Cyanide analysis. QA has been notified and I have asked for a formal corrective action.

RESOLUTION

PROPOSED RESOLUTION: TASL PROPOSES TO CONTINUE WITH ANALYSIS AND NARRATE.
OR
CANCEL ANALYSIS.

FINAL RESOLUTION: Please continue with analysis and narrate.

SUBMITTED BY:

AWALT, JK 01/31/2018

ACCEPTED BY:

MEDLEY, HA 01/31/2018

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-26413-1
SDG Number: SL2793

Login Number: 26413
List Number: 1
Creator: Taylor, Kristene N

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9,2.0,2.4
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").	True	
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			F17-062-039	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL		REQUIRED TAT: 30 Days
SAMPLING LOCATION: ~~C9839~~, Optional 1 C9558	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GLOS-533	FIELD LOGBOOK NO.: HNF-N-645 6 - 72	ACTUAL SAMPLE DEPTH: 8.4 to 10.1	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.: 771226832976		

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: B3FL33~~ 1-1578

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			
B3FL37	N/A	SOIL	JAN 15 2018	1406	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 15 2018 1535	SSU-1	JAN 15 2018 1535
SSU-1	JAN 16 2018 0700	Lesly Wall /CHPRC Lesly Wall	JAN 16 2018 0700
Lesly Wall /CHPRC Lesly Wall	JAN 16 2018 1400	FEDEX Robert Castillo	
FEDEX		Robert Castillo 1-18-18	1000

SPECIAL INSTRUCTIONS
TRVL-18-002
(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 10/26/2017 FSR ID = FSR52085 TRVL NUM = TRVL-18-002 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 75lbs	F17-062-234	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	REQUIRED TAT
MIKE ESPARZA CHPRC SL2793	FITZGERALD, SL	373-7495	FITZGERALD, SL	30 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C9848, Shallow Sample 2	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-730	HNF-N-645 6 - 73	4.4 to 6.2	303971	FEDERAL EXPRESS

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
TestAmerica St. Louis	N/A	7712 3063 7594

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: B3FMF4~~ 1-16-18

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					
B3FMF6	N/A	SOIL	JAN 16 2018	0918	✓	✓	✓	✓	✓

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02/15/18

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
MIKE ESPARZA CHPRC	JAN 16 2018 1120	FEDEX	~~JAN 16 2018~~ 1-16-18
FED EX		Robert Castillo	1-18-18 1000

SPECIAL INSTRUCTIONS
TRVL-18-011
(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

REV.0

10/64

02/15/2018

PRINTED ON 10/24/2017 FSR ID = FSR52857 TRVL NUM = TRVL-18-011 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-062-231	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	REQUIRED TAT
MIKE ESPARZA CHPRC SL2793	FITZGERALD, SL	373-7495	FITZGERALD, SL	30 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C9848, Shallow Sample 1	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-730	HNF-N-645 6-73	3.0 to 4.4 FT	303971	FEDERAL EXPRESS

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
TestAmerica St. Louis	N/A	7712 3063 7574

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: B3FMF1~~ 1-16-18

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					
B3FMF3	/	N/A	SOIL JAN 16 2018	0909	✓	✓	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
MIKE ESPARZA CHPRC FED EX	1120 JAN 16 2018	FEDEX Robert S. Cristile 1-18-18	~~JAN 16 2018~~ 1-16-18 1000

SPECIAL INSTRUCTIONS
TRVL-18-011
(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 10/24/2017 FSR ID = FSR52867 TRVL NUM = TRVL-18-011 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-237	PAGE 1 OF 1
COLLECTOR MIKE ESPARZA CHPRC SL2793	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9848, Shallow Sample 3	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS-730	FIELD LOGBOOK NO. NF-N-645 6 - 73	ACTUAL SAMPLE DEPTH 6.2 to 8.3 ft	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. 7712 3063 7574		

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: ~~B3FMF7~~ 1-16-18

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					
B3FMF9	N/A	SOIL	JAN 16 2018	0928	✓	✓	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
MIKE ESPARZA CHPRC	JAN 16 2018 1130	FEDEX	~~JAN 16 2018~~ 1-16-18
FEDEX		1-18.18 · 1300	

SPECIAL INSTRUCTIONS
TRVL-18-011
(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 10/24/2017 FSR ID = FSR52858 TRVL NUM = TRVL-18-011 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-240	PAGE 1 OF 1
COLLECTOR: MIKE ESPARZA, CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9848, Shallow Sample 4	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-730	FIELD LOGBOOK NO.: HNF-N-645 6-23	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.: N/A		BILL OF LADING/AIR BILL NO.: 7712 3063 7574		

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: B3FMH0~~ 1-16 x 8

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					
B3FMH2	/	N/A	JAN 16 2018	0935	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
MIKE ESPARZA, CHPRC	1120 JAN 16 2018	FEDEX	~~JAN 16 2018~~
FEDEX		Robert Castillo	1-18-18 1000

SPECIAL INSTRUCTIONS
TRVL-18-011
(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 10/24/2017 FSR ID = FSR52859 TRVL NUM = TRVL-18-011 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-062-243	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	REQUIRED TAT
MIKE ESPARZA CHPRC SL2793	FITZGERALD, SL	373-7495	FITZGERALD, SL	30 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C9848, Shallow Sample 5	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-730	HNF-N-645 6 - 73	10.0 to 12.2 ft	303971	FEDERAL EXPRESS

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
TestAmerica St. Louis	N/A	7712 3063 ~~7875~~ 7574 1-16-18

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: B3FMH3~~

JAN 16 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					
B3FMH5	N/A	SOIL	JAN 16 2018	0946	✓	✓	✓	✓	✓

Page 14 of 64

02/15/18

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
MIKE ESPARZA CHPRC	JAN 16 2018 1120	FEDEX	~~JAN 16 2018~~
FEDEX		Robert L Cardillo / Robert L Cardillo	1-16-18 1000

SPECIAL INSTRUCTIONS
TRVL-18-011
(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

14/64

REV.0

02/15/2018

PRINTED ON 10/24/2017 FSR ID = FSR52868 TRVL NUM = TRVL-18-011 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-248	PAGE 1 OF 1
COLLECTOR: MIKE ESPARZA CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL		REQUIRED TAT: 30 Days
SAMPLING LOCATION: C9848, Shallow Sample - FTB	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062		ORIGINAL
ICE CHEST NO.: GWS-1730	FIELD LOGBOOK NO.: HNF-N-645 6 - 73	ACTUAL SAMPLE DEPTH: N/A ft	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.: 7712 3063 7574		

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					
B3FMJ0	/	N/A	SOIL	JAN 16 2018	0755	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
MIKE ESPARZA CHPRC	JAN 16 2018	FEDEX	JAN 16 2018
FEDEX		Robert L. Castillo 1-18-18 1000	

SPECIAL INSTRUCTIONS
TRVL-18-011
(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 10/24/2017 FSR ID = FSR52870 TRVL NUM = TRVL-18-011 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 70165			F17-062-220	PAGE 1 OF 1
COLLECTOR Daniel Klug CHPRC SL2793	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9847, Shallow Sample 4	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS-744	FIELD LOGBOOK NO. HNF-N-645 6-22	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. N/A		BILL OF LADING/AIR BILL NO. 7712 2110 5180		

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: B3FMD8~~ 1-15-18

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			
B3FMD2	/	N/A	SOIL	JAN 15 2018	1120	✓	✓	—

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 15 2018 1210	Roger Friesz Jr. /CHPRC	JAN 15 2018 1210
Roger Friesz Jr. /CHPRC	JAN 15 2018 1400	FEDEX	
FEDEX		Robert Castillo	1-18-18 1000

SPECIAL INSTRUCTIONS
TRVL-18-010
(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 11/2/2017 FSR ID = FSR52863 TRVL NUM = TRVL-18-010 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-178	PAGE 1 OF 1
COLLECTOR Daniel Klug CHPRC SL2793	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION ~~C9815~~ 1-11-18, Shallow Sample 4 C9560	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS-744	FIELD LOGBOOK NO. HNF-N-645 6-71	ACTUAL SAMPLE DEPTH 8.7 to 10.1 ft	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. 7712 2110 5180		

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: B3FLN6~~
1-11-18

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			
B3FLN8	N/A	SOIL	JAN 11 2018	1430	✓	N/A	N/A

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 11 2018 1515	SSU-1	JAN 11 2018 1515
SSU-1	JAN 15 2018 0900	Troy Bacon CHPRC Troy L. Bacon	JAN 15 2018 0900
Troy Bacon CHPRC Troy L. Bacon	JAN 15 2018 1400	FEDEX	
FED EX		Robert C. Castillo	1-18-18
		[illegible]	1000

SPECIAL INSTRUCTIONS
TRVL-18-008
(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 11/2/2017 FSR ID = FSR52383 TRVL NUM = TRVL-18-008 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-172	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: ~~C9845~~ C9560, Shallow Sample 2	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-744	FIELD LOGBOOK NO.: HNF-N-645 6-71	ACTUAL SAMPLE DEPTH: 5.1 to 6.6	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.: 7712 2110 5180		

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: B3FLN0~~ 1-11-18

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			
B3FLN2	N/A	SOIL	JAN 11 2018	1460	✓	N/A	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 11 2018 1515	SSU-1	JAN 11 2018 1515
SSU-1	JAN 15 2018 0900	Troy Bacon CHPRC Troy L. Bacon	JAN 15 2018 0900
Troy Bacon CHPRC Troy L. Bacon	JAN 15 2018 1400	FEDEX	
FEDEX		Robert L. Bartlett	1-18-18
		[illegible]	1400

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-008
(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 11/2/2017 FSR ID = FSR52381 TRVL NUM = TRVL-18-008 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-169	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9845, Shallow Sample 1	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-744	FIELD LOGBOOK NO.: HNF-N-645 6 - 71	ACTUAL SAMPLE DEPTH: 2.3 to 4.5 ft	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.: 7712 2110 5180		

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: B3FLM7~~
1-11-18

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			
B3FLM9	N/A	SOIL	JAN 11 2018	1322	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 11 2018 1515	SSU-1	JAN 11 2018 1515
SSU-1	JAN 15 2018 0900	Troy Bacon CHPRC Troy L. Bacon	JAN 15 2018 0900
Troy Bacon CHPRC Troy L. Bacon	JAN 15 2018 1400	FEDEX	
FEDEX		Robert L Curtis Jr	1-18-18
		[illegible]	1 [illegible]

SPECIAL INSTRUCTIONS
TRVL-18-008
(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 11/2/2017 FSR ID = FSR52380 TRVL NUM = TRVL-18-008 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-197	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9846, Shallow Sample 3	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-744	FIELD LOGBOOK NO.: HNF-N- 645-6/72	ACTUAL SAMPLE DEPTH: 6.8 to 8.5 ft	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.: 7712 2110 5180		

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: B3FLV7~~ 1-15-18

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			
B3FLV9	N/A	SOIL	JAN 15 2018	0946	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 15 2018 1210	Roger Friesz Jr. /CHPRC	JAN 15 2018 1210
Roger Friesz Jr. /CHPRC	~~NOV 15 2017~~ JAN 15 2018 1400	FEDEX Robert C. Griffin	
FED EX	210-1/15/18	1-18-18 1800	

SPECIAL INSTRUCTIONS
TRVL-18-009
(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 11/2/2017 FSR ID = FSR52390 TRVL NUM = TRVL-18-009 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-191	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9846, Shallow Sample 1 - DUP	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS 744	FIELD LOGBOOK NO.: HNF-N-645-6/72	ACTUAL SAMPLE DEPTH: 2.1 to 4.4 ft	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.: 7712 2110 5180		

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: B3FLT9~~ 1-15-18

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			
B3FLV3	N/A	SOIL	JAN 15 2018	0927	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D.K.	JAN 15 2018 1210	Roger Friesz Jr. /CHPRC	JAN 15 2018 1210
Roger Friesz Jr. /CHPRC	~~NOV 15 2017~~ JAN 15 2018 1400	FEDEX Robert Cirillo 1-18-18 1000	
FEDEX			

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-009
(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 = FSR52388 TRVL NUM = TRVL-18-009 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-214	PAGE 1 OF 1
COLLECTOR Daniel Klug CHPRC SL2793	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9847, Shallow Sample 2	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS-744	FIELD LOGBOOK NO. HNF-N-645 6 - 73	ACTUAL SAMPLE DEPTH 4.5 to 6.5 FT	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. 7712 21105180		

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: B3FMC4~~ 1-15-18

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			
B3FMC6	N/A	SOIL	JAN 15 2018	1103	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC	JAN 15 2018 1210	Roger Friesz Jr. /CHPRC	JAN 15 2018 1210
Roger Friesz Jr. /CHPRC	JAN 15 2018 1400 FEDEX	FEDEX	
		1-18-18 1 SUS	

SPECIAL INSTRUCTIONS
TRVL-18-010
(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 11/2/2017 FSR ID = FSR52861 TRVL NUM = TRVL-18-010 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-211	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9847, Shallow Sample 1	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-744	FIELD LOGBOOK NO.: HNF-N-645 6-22	ACTUAL SAMPLE DEPTH: 2.3 to 4.5 FT	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.: 7712 2110 5180		

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: B3FMC1~~
1-15-18

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			
B3FMC3	N	N/A	SOIL	JAN 15 2018	1050	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC	JAN 15 2018 1210	Roger Friesz Jr. /CHPRC	JAN 15 2018 1210
Roger Friesz Jr. /CHPRC	JAN 15 2018 1400 FED EX	FEDEX Robert Lassello	1-18-18 1100

SPECIAL INSTRUCTIONS
TRVL-18-010
(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 11/2/2017 FSR ID = FSR52860 TRVL NUM = TRVL-18-010 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-217	PAGE 1 OF 1
COLLECTOR Daniel Klug CHPRC SL2793	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9847, Shallow Sample 3	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GLOS-744	FIELD LOGBOOK NO. HNF-N-645 6 - 72	ACTUAL SAMPLE DEPTH 6.9 to 8.3 Ft	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. 7712 2110 5180		

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: B3FMC7~~ 1-15-18

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			
B3FMC9	/	N/A	SOIL	JAN 15 2018	1113	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC	JAN 15 2018 1210	Roger Friesz Jr. /CHPRC	JAN 15 2018 1210
Roger Friesz Jr. /CHPRC	JAN 15 2018 1400	FEDEX	
FEDEX		Tiberio Castillo	1-18-18

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-010
(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 11/2/2017 FSR ID = FSR52862 TRVL NUM = TRVL-18-010 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-189	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9846, Shallow Sample 1	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GLOS-744	FIELD LOGBOOK NO.: HNF-N-645-6/72	ACTUAL SAMPLE DEPTH: 2.1 to 4.4 ft	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.: 7712 2110 5180		

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: B3FLT9~~ 1-15-18

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			
B3FLV1	N/A	SOIL	JAN 15 2018	0927	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 15 2018 1210	Roger Friesz Jr. /CHPRC	JAN 15 2018 1210
Roger Friesz Jr. /CHPRC	JAN 15 2018 1400 FEDEX	FEDEX Robert Chesser 1-18-18 / 0830	

SPECIAL INSTRUCTIONS
TRVL-18-009
(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 11/2/2017 FSR ID = FSR52387 TRVL NUM = TRVL-18-009 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-194	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2793	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9846, Shallow Sample 2	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-744	FIELD LOGBOOK NO.: HNF-N-645-6/72	ACTUAL SAMPLE DEPTH: 4.4 to 6.8 ft	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.: 7712 21105180		

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: B3FLV4~~ 1-15-18

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			
B3FLV6	N/A	SOIL	JAN 15 2018	0937	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 15 2018 1210	Roger Frieaz Jr. /CHPRC	JAN 15 2018 1210
Roger Frieaz Jr. /CHPRC	JAN 15 2018 1400	FEDEX	
FED EX		Robert Castillo 1-18-18 1000	

SPECIAL INSTRUCTIONS
TRVL-18-009
(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 11/2/2017 FSR ID = FSR52389 TRVL NUM = TRVL-18-009 A-6003-618 (REV 3)

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FedEx® Tracking

771226832976

Ship date:
Tue 1/16/2018

Actual delivery:
Thu 1/18/2018 9:51 am

Richland, WA US

Delivered
Signed for by: K.TAYLOR

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
1/18/2018 - Thursday		
9:51 am	Delivered	EARTH CITY, MO
7:11 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:04 am	At local FedEx facility	EARTH CITY, MO
1/17/2018 - Wednesday		
11:06 pm	At destination sort facility	BERKELEY, MO
5:00 pm	Departed FedEx location	MEMPHIS, TN
4:29 am	In transit	MEMPHIS, TN
1:33 am	Arrived at FedEx location	MEMPHIS, TN
1/16/2018 - Tuesday		
4:51 pm	Left FedEx origin facility	PASCO, WA
3:17 pm	Picked up	PASCO, WA
11:52 am	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771226832976	**Service**	FedEx Standard Overnight
Weight	76 lbs / 34.47 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	76 lbs / 34.47 kgs
Terms	Recipient	**Shipper reference**	GWS-533
Packaging	Your Packaging	**Special handling section**	Deliver Weekday
Standard transit	1/17/2018 by 3:00 pm		

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FedEx ® Tracking

771230637574

Ship date:		Actual delivery:
Tue 1/16/2018		**Thu 1/18/2018 9:51 am**
Richland, WA US	**Delivered** *Signed for by: K.TAYLOR*	EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 1/18/2018 - Thursday		
9:51 am	Delivered	EARTH CITY, MO
7:10 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:04 am	At local FedEx facility	EARTH CITY, MO
- 1/17/2018 - Wednesday		
11:06 pm	At destination sort facility	BERKELEY, MO
5:00 pm	Departed FedEx location	MEMPHIS, TN
4:29 am	In transit	MEMPHIS, TN
1:33 am	Arrived at FedEx location	MEMPHIS, TN
- 1/16/2018 - Tuesday		
4:51 pm	Left FedEx origin facility	PASCO, WA
3:21 pm	Shipment information sent to FedEx	
3:17 pm	Picked up	PASCO, WA

Shipment Facts

Tracking Number	771230637574	**Service**	FedEx Standard Overnight
Weight	75 lbs / 34.02 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	75 lbs / 34.02 kgs
Terms	Recipient	**Shipper reference**	GWS-730
Packaging	Your Packaging	**Special handling section**	Deliver Weekday
Standard transit	1/17/2018 by 3:00 pm		

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IMPORTANT!
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FedEx ® Tracking

771221105180

Ship date:
Tue 1/16/2018

Richland, WA US

Delivered
Signed for by: K.TAYLOR

Actual delivery:
Thu 1/18/2018 9:51 am

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
▪ 1/18/2018 - Thursday		
9:51 am	Delivered	EARTH CITY, MO
7:06 am	On FedEx vehicle for delivery	EARTH CITY, MO
6:59 am	At local FedEx facility	EARTH CITY, MO
▪ 1/17/2018 - Wednesday		
11:06 pm	At destination sort facility	BERKELEY, MO
5:00 pm	Departed FedEx location	MEMPHIS, TN
4:29 am	In transit	MEMPHIS, TN
1:33 am	Arrived at FedEx location	MEMPHIS, TN
▪ 1/16/2018 - Tuesday		
4:51 pm	Left FedEx origin facility	PASCO, WA
3:17 pm	Picked up	PASCO, WA
▪ 1/15/2018 - Monday		
4:04 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771221105180	**Service**	FedEx Standard Overnight
Weight	70 lbs / 31.75 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	70 lbs / 31.75 kgs
Terms	Recipient	**Shipper reference**	GWS-744
Packaging	Your Packaging	**Special handling section**	Deliver Weekday
Standard transit	1/17/2018 by 3:00 pm		

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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.
B	Estimated result. Result is less than the RL, but greater than MDL
D	The reported value is from a dilution.
N	Recovery exceeds upper or lower control limits
X	See case narrative notes for explanation of the 'X' flag

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
C	The analyte was detected in both the sample and the associated QC blank, and the sample concentration was </= 5X the blank concentration.
Z	Sample was prepped or analyzed beyond the specified holding time
B	Estimated result. Result is less than the RL, but greater than MDL

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 160-26413-1
SDG: SL2793

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: 160-26413-1
SDG: SL2793

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-26413-1	B3FL37	Soil	01/15/18 14:06	01/18/18 10:00
160-26413-2	B3FMF6	Soil	01/16/18 09:18	01/18/18 10:00
160-26413-3	B3FMF3	Soil	01/16/18 09:09	01/18/18 10:00
160-26413-4	B3FMF9	Soil	01/16/18 09:28	01/18/18 10:00
160-26413-5	B3FMH2	Soil	01/16/18 09:35	01/18/18 10:00
160-26413-6	B3FMH5	Soil	01/16/18 09:46	01/18/18 10:00
160-26413-7	B3FMJ0	Soil	01/16/18 07:55	01/18/18 10:00
160-26413-8	B3FMD2	Soil	01/15/18 11:20	01/18/18 10:00
160-26413-9	B3FLN8	Soil	01/11/18 14:30	01/18/18 10:00
160-26413-10	B3FLN2	Soil	01/11/18 14:10	01/18/18 10:00
160-26413-11	B3FLM9	Soil	01/11/18 13:22	01/18/18 10:00
160-26413-12	B3FLV9	Soil	01/15/18 09:46	01/18/18 10:00
160-26413-13	B3FLV3	Soil	01/15/18 09:27	01/18/18 10:00
160-26413-14	B3FMC6	Soil	01/15/18 11:03	01/18/18 10:00
160-26413-15	B3FMC3	Soil	01/15/18 10:50	01/18/18 10:00
160-26413-16	B3FMC9	Soil	01/15/18 11:13	01/18/18 10:00
160-26413-17	B3FLV1	Soil	01/15/18 09:27	01/18/18 10:00
160-26413-18	B3FLV6	Soil	01/15/18 09:37	01/18/18 10:00

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

Client Sample ID: B3FMF6 — **Lab Sample ID: 160-26413-2**
Date Collected: 01/16/18 09:18 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	47	U	340	47	ug/Kg	☼	01/22/18 14:09	01/26/18 11:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*230*	*N J*	*ug/Kg*	☼	*3.66*	*141-79-7*	*01/22/18 14:09*	*01/26/18 11:49*	*1*
Unknown	*10000*	*N*	*ug/Kg*	☼	*4.02*		*01/22/18 14:09*	*01/26/18 11:49*	*1*
Unknown	*240*	*N*	*ug/Kg*	☼	*4.55*		*01/22/18 14:09*	*01/26/18 11:49*	*1*
n-Hexadecanoic acid	*320*	*N J*	*ug/Kg*	☼	*10.21*	*57-10-3*	*01/22/18 14:09*	*01/26/18 11:49*	*1*
Cycloeicosane	*660*	*N J*	*ug/Kg*	☼	*12.43*	*296-56-0*	*01/22/18 14:09*	*01/26/18 11:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*47 - 125*	*01/22/18 14:09*	*01/26/18 11:49*	*1*
2-Fluorobiphenyl (Surr)	*72*		*59 - 110*	*01/22/18 14:09*	*01/26/18 11:49*	*1*
2-Fluorophenol (Surr)	*72*		*54 - 102*	*01/22/18 14:09*	*01/26/18 11:49*	*1*
Nitrobenzene-d5 (Surr)	*68*		*44 - 120*	*01/22/18 14:09*	*01/26/18 11:49*	*1*
Phenol-d5 (Surr)	*73*		*51 - 104*	*01/22/18 14:09*	*01/26/18 11:49*	*1*
Terphenyl-d14 (Surr)	*87*		*59 - 98*	*01/22/18 14:09*	*01/26/18 11:49*	*1*

Client Sample ID: B3FMF3 — **Lab Sample ID: 160-26413-3**
Date Collected: 01/16/18 09:09 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	350	49	ug/Kg	☼	01/22/18 14:09	01/26/18 13:09	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*	☼	*3.68*	*141-79-7*	*01/22/18 14:09*	*01/26/18 13:09*	*1*
Unknown	*15000*	*N*	*ug/Kg*	☼	*4.05*		*01/22/18 14:09*	*01/26/18 13:09*	*1*
Unknown	*310*	*N*	*ug/Kg*	☼	*4.56*		*01/22/18 14:09*	*01/26/18 13:09*	*1*
n-Hexadecanoic acid	*620*	*N J*	*ug/Kg*	☼	*10.23*	*57-10-3*	*01/22/18 14:09*	*01/26/18 13:09*	*1*
1-Eicosanol	*860*	*N J*	*ug/Kg*	☼	*12.45*	*629-96-9*	*01/22/18 14:09*	*01/26/18 13:09*	*1*
Unknown	*170*	*N*	*ug/Kg*	☼	*13.53*		*01/22/18 14:09*	*01/26/18 13:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 125*	*01/22/18 14:09*	*01/26/18 13:09*	*1*
2-Fluorobiphenyl (Surr)	*81*		*59 - 110*	*01/22/18 14:09*	*01/26/18 13:09*	*1*
2-Fluorophenol (Surr)	*82*		*54 - 102*	*01/22/18 14:09*	*01/26/18 13:09*	*1*
Nitrobenzene-d5 (Surr)	*80*		*44 - 120*	*01/22/18 14:09*	*01/26/18 13:09*	*1*
Phenol-d5 (Surr)	*84*		*51 - 104*	*01/22/18 14:09*	*01/26/18 13:09*	*1*
Terphenyl-d14 (Surr)	*92*		*59 - 98*	*01/22/18 14:09*	*01/26/18 13:09*	*1*

Client Sample ID: B3FMF9 — **Lab Sample ID: 160-26413-4**
Date Collected: 01/16/18 09:28 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	340	48	ug/Kg	☼	01/22/18 14:09	01/26/18 13:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*230*	*N J*	*ug/Kg*	☼	*3.67*	*141-79-7*	*01/22/18 14:09*	*01/26/18 13:36*	*1*
Unknown	*11000*	*N*	*ug/Kg*	☼	*4.04*		*01/22/18 14:09*	*01/26/18 13:36*	*1*
Unknown	*250*	*N*	*ug/Kg*	☼	*4.57*		*01/22/18 14:09*	*01/26/18 13:36*	*1*
n-Hexadecanoic acid	*550*	*N J*	*ug/Kg*	☼	*10.23*	*57-10-3*	*01/22/18 14:09*	*01/26/18 13:36*	*1*
1-Eicosanol	*760*	*N J*	*ug/Kg*	☼	*12.45*	*629-96-9*	*01/22/18 14:09*	*01/26/18 13:36*	*1*

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

Client Sample ID: B3FMF9 — **Lab Sample ID: 160-26413-4**
Date Collected: 01/16/18 09:28 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.3**

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	150	N	ug/Kg	☼	13.53		01/22/18 14:09	01/26/18 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		47 - 125	01/22/18 14:09	01/26/18 13:36	1
2-Fluorobiphenyl (Surr)	79		59 - 110	01/22/18 14:09	01/26/18 13:36	1
2-Fluorophenol (Surr)	80		54 - 102	01/22/18 14:09	01/26/18 13:36	1
Nitrobenzene-d5 (Surr)	76		44 - 120	01/22/18 14:09	01/26/18 13:36	1
Phenol-d5 (Surr)	81		51 - 104	01/22/18 14:09	01/26/18 13:36	1
Terphenyl-d14 (Surr)	88		59 - 98	01/22/18 14:09	01/26/18 13:36	1

Client Sample ID: B3FMH2 — **Lab Sample ID: 160-26413-5**
Date Collected: 01/16/18 09:35 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	47	U	340	47	ug/Kg	☼	01/22/18 14:09	01/26/18 14:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	250	N J	ug/Kg	☼	3.68	141-79-7	01/22/18 14:09	01/26/18 14:03	1
Unknown	11000	N	ug/Kg	☼	4.04		01/22/18 14:09	01/26/18 14:03	1
Unknown	230	N	ug/Kg	☼	4.57		01/22/18 14:09	01/26/18 14:03	1
n-Hexadecanoic acid	200	N J	ug/Kg	☼	10.23	57-10-3	01/22/18 14:09	01/26/18 14:03	1
1-Eicosanol	520	N J	ug/Kg	☼	12.46	629-96-9	01/22/18 14:09	01/26/18 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		47 - 125	01/22/18 14:09	01/26/18 14:03	1
2-Fluorobiphenyl (Surr)	78		59 - 110	01/22/18 14:09	01/26/18 14:03	1
2-Fluorophenol (Surr)	77		54 - 102	01/22/18 14:09	01/26/18 14:03	1
Nitrobenzene-d5 (Surr)	74		44 - 120	01/22/18 14:09	01/26/18 14:03	1
Phenol-d5 (Surr)	78		51 - 104	01/22/18 14:09	01/26/18 14:03	1
Terphenyl-d14 (Surr)	95		59 - 98	01/22/18 14:09	01/26/18 14:03	1

Client Sample ID: B3FMH5 — **Lab Sample ID: 160-26413-6**
Date Collected: 01/16/18 09:46 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	47	U	340	47	ug/Kg	☼	01/22/18 14:09	01/26/18 14:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	250	N J	ug/Kg	☼	3.67	141-79-7	01/22/18 14:09	01/26/18 14:30	1
Unknown	11000	N	ug/Kg	☼	4.04		01/22/18 14:09	01/26/18 14:30	1
Unknown	240	N	ug/Kg	☼	4.56		01/22/18 14:09	01/26/18 14:30	1
n-Hexadecanoic acid	240	N J	ug/Kg	☼	10.22	57-10-3	01/22/18 14:09	01/26/18 14:30	1
Cycloeicosane	600	N J	ug/Kg	☼	12.45	296-56-0	01/22/18 14:09	01/26/18 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		47 - 125	01/22/18 14:09	01/26/18 14:30	1
2-Fluorobiphenyl (Surr)	80		59 - 110	01/22/18 14:09	01/26/18 14:30	1
2-Fluorophenol (Surr)	83		54 - 102	01/22/18 14:09	01/26/18 14:30	1
Nitrobenzene-d5 (Surr)	80		44 - 120	01/22/18 14:09	01/26/18 14:30	1
Phenol-d5 (Surr)	83		51 - 104	01/22/18 14:09	01/26/18 14:30	1
Terphenyl-d14 (Surr)	90		59 - 98	01/22/18 14:09	01/26/18 14:30	1

Client Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

Client Sample ID: B3FMJ0 — **Lab Sample ID: 160-26413-7**
Date Collected: 01/16/18 07:55 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	45	U	330	45	ug/Kg	☼	01/22/18 14:09	01/26/18 14:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*210*	*N J*	*ug/Kg*	☼	*3.67*	*141-79-7*	*01/22/18 14:09*	*01/26/18 14:57*	*1*
Unknown	*9400*	*N*	*ug/Kg*	☼	*4.04*		*01/22/18 14:09*	*01/26/18 14:57*	*1*
Unknown	*230*	*N*	*ug/Kg*	☼	*4.56*		*01/22/18 14:09*	*01/26/18 14:57*	*1*
n-Hexadecanoic acid	*150*	*N J*	*ug/Kg*	☼	*10.22*	*57-10-3*	*01/22/18 14:09*	*01/26/18 14:57*	*1*
1-Octadecanol	*430*	*N J*	*ug/Kg*	☼	*12.45*	*112-92-5*	*01/22/18 14:09*	*01/26/18 14:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*47 - 125*	*01/22/18 14:09*	*01/26/18 14:57*	*1*
2-Fluorobiphenyl (Surr)	*77*		*59 - 110*	*01/22/18 14:09*	*01/26/18 14:57*	*1*
2-Fluorophenol (Surr)	*77*		*54 - 102*	*01/22/18 14:09*	*01/26/18 14:57*	*1*
Nitrobenzene-d5 (Surr)	*73*		*44 - 120*	*01/22/18 14:09*	*01/26/18 14:57*	*1*
Phenol-d5 (Surr)	*77*		*51 - 104*	*01/22/18 14:09*	*01/26/18 14:57*	*1*
Terphenyl-d14 (Surr)	*92*		*59 - 98*	*01/22/18 14:09*	*01/26/18 14:57*	*1*

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

Client Sample ID: B3FMF6 — **Lab Sample ID: 160-26413-2**
Date Collected: 01/16/18 09:18 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/22/18 16:11	01/24/18 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*49 - 133*	*01/22/18 16:11*	*01/24/18 14:59*	*1*

Client Sample ID: B3FMF3 — **Lab Sample ID: 160-26413-3**
Date Collected: 01/16/18 09:09 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	26	2.6	mg/Kg	☼	01/22/18 16:11	01/24/18 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*49 - 133*	*01/22/18 16:11*	*01/24/18 15:26*	*1*

Client Sample ID: B3FMF9 — **Lab Sample ID: 160-26413-4**
Date Collected: 01/16/18 09:28 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/22/18 16:11	01/24/18 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*49 - 133*	*01/22/18 16:11*	*01/24/18 16:46*	*1*

Client Sample ID: B3FMH2 — **Lab Sample ID: 160-26413-5**
Date Collected: 01/16/18 09:35 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/22/18 16:11	01/24/18 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*49 - 133*	*01/22/18 16:11*	*01/24/18 17:13*	*1*

Client Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

Client Sample ID: B3FMH5 — **Lab Sample ID: 160-26413-6**
Date Collected: 01/16/18 09:46 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/22/18 16:11	01/24/18 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*49 - 133*	*01/22/18 16:11*	*01/24/18 17:40*	*1*

Client Sample ID: B3FMJ0 — **Lab Sample ID: 160-26413-7**
Date Collected: 01/16/18 07:55 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **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	☼	01/22/18 16:11	01/24/18 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*49 - 133*	*01/22/18 16:11*	*01/24/18 18:07*	*1*

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FL37 — **Lab Sample ID: 160-26413-1**
Date Collected: 01/15/18 14:06 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6060**	**D**	12.6	5.0	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Antimony	**0.74**	**B D**	1.2	0.49	mg/Kg	☼	01/22/18 08:45	01/29/18 18:54	5
Arsenic	**2.8**	**D**	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Barium	**68.4**	**D**	5.0	1.3	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Cadmium	**0.081**	**B D**	0.13	0.060	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Chromium	**7.8**	**D**	2.5	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Copper	**13.7**	**D**	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Lead	**3.4**	**D**	0.75	0.31	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Manganese	**293**	**D N**	1.3	0.50	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Nickel	**8.0**	**D**	1.3	0.50	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Selenium	0.80	U D	1.3	0.80	mg/Kg	☼	01/22/18 08:43	02/06/18 17:10	5
Silver	0.19	U D	0.50	0.19	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5
Uranium	**0.40**	**D**	0.25	0.10	mg/Kg	☼	01/22/18 08:43	01/30/18 03:47	5

Client Sample ID: B3FMF6 — **Lab Sample ID: 160-26413-2**
Date Collected: 01/16/18 09:18 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6260**	**D**	12.7	5.1	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Antimony	**0.52**	**B D**	1.2	0.49	mg/Kg	☼	01/22/18 08:45	01/29/18 19:26	5
Arsenic	**3.6**	**D**	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Barium	**136**	**D**	5.1	1.3	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Cadmium	**0.13**	**D**	0.13	0.061	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Chromium	**7.2**	**D**	2.5	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Copper	**14.6**	**D**	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Lead	**3.5**	**D**	0.76	0.32	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Manganese	**592**	**D N**	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Nickel	**10.0**	**D**	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Selenium	**0.86**	**B D**	1.3	0.81	mg/Kg	☼	01/22/18 08:43	02/06/18 17:37	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5
Uranium	**0.41**	**D**	0.25	0.10	mg/Kg	☼	01/22/18 08:43	01/30/18 04:14	5

Client Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMF3 — **Lab Sample ID: 160-26413-3**
Date Collected: 01/16/18 09:09 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5500	D	12.8	5.1	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Antimony	0.53	B D	1.1	0.46	mg/Kg	☼	01/22/18 08:45	01/29/18 19:30	5
Arsenic	4.7	D	2.6	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Barium	70.2	D	5.1	1.3	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Cadmium	0.071	B D	0.13	0.061	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Chromium	7.3	D	2.6	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Copper	13.9	D	2.6	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Lead	3.2	D	0.77	0.32	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Manganese	331	D N	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Nickel	7.9	D	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Selenium	1.1	B D	1.3	0.82	mg/Kg	☼	01/22/18 08:43	02/06/18 17:43	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5
Uranium	0.35	D	0.26	0.10	mg/Kg	☼	01/22/18 08:43	01/30/18 04:21	5

Client Sample ID: B3FMF9 — **Lab Sample ID: 160-26413-4**
Date Collected: 01/16/18 09:28 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5790	D	11.9	4.8	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Antimony	0.46	U D	1.2	0.46	mg/Kg	☼	01/22/18 08:45	01/29/18 19:35	5
Arsenic	3.5	D	2.4	0.95	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Barium	64.9	D	4.8	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Cadmium	0.057	U D	0.12	0.057	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Chromium	7.7	D	2.4	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Copper	14.4	D	2.4	0.95	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Lead	3.1	D	0.72	0.30	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Manganese	323	D N	1.2	0.48	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Nickel	9.0	D	1.2	0.48	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Selenium	1.1	B D	1.2	0.76	mg/Kg	☼	01/22/18 08:43	02/06/18 17:50	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5
Uranium	0.35	D	0.24	0.095	mg/Kg	☼	01/22/18 08:43	01/30/18 04:48	5

Client Sample ID: B3FMH2 — **Lab Sample ID: 160-26413-5**
Date Collected: 01/16/18 09:35 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5930	D	11.7	4.7	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Antimony	0.71	B D	1.2	0.49	mg/Kg	☼	01/22/18 08:45	01/29/18 19:39	5
Arsenic	4.0	D	2.3	0.93	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Barium	67.9	D	4.7	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Cadmium	0.080	B D	0.12	0.056	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Chromium	7.7	D	2.3	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Copper	13.6	D	2.3	0.93	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Lead	3.1	D	0.70	0.29	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Manganese	334	D N	1.2	0.47	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Nickel	8.4	D	1.2	0.47	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Selenium	1.2	D	1.2	0.75	mg/Kg	☼	01/22/18 08:43	02/06/18 17:57	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5
Uranium	0.42	D	0.23	0.093	mg/Kg	☼	01/22/18 08:43	01/30/18 04:55	5

Client Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMH5 — **Lab Sample ID: 160-26413-6**
Date Collected: 01/16/18 09:46 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5720	D	11.6	4.6	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Antimony	0.51	U D	1.3	0.51	mg/Kg	☼	01/22/18 08:45	01/29/18 19:43	5
Arsenic	3.8	D	2.3	0.93	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Barium	72.1	D	4.6	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Cadmium	0.069	B D	0.12	0.056	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Chromium	8.1	D	2.3	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Copper	15.0	D	2.3	0.93	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Lead	3.1	D	0.70	0.29	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Manganese	323	D N	1.2	0.46	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Nickel	14.2	D	1.2	0.46	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Selenium	0.81	B D	1.2	0.74	mg/Kg	☼	01/22/18 08:43	02/06/18 18:04	5
Silver	0.17	U D	0.46	0.17	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5
Uranium	0.39	D	0.23	0.093	mg/Kg	☼	01/22/18 08:43	01/30/18 05:01	5

Client Sample ID: B3FMJ0 — **Lab Sample ID: 160-26413-7**
Date Collected: 01/16/18 07:55 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	75.5	D	4.3	1.7	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Antimony	0.18	U D	0.46	0.18	mg/Kg	☼	01/22/18 08:45	01/29/18 19:48	2
Arsenic	0.35	U D	0.87	0.35	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Barium	0.43	U D	1.7	0.43	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Cadmium	0.021	U D	0.043	0.021	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Chromium	0.39	U D	0.87	0.39	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Copper	0.35	U D	0.87	0.35	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Lead	0.11	U D	0.26	0.11	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Manganese	1.3	D N	0.43	0.17	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Nickel	0.17	U D	0.43	0.17	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Selenium	0.69	U D	1.1	0.69	mg/Kg	☼	01/22/18 08:43	02/06/18 18:30	5
Silver	0.065	U D	0.17	0.065	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2
Uranium	0.054	B D	0.087	0.035	mg/Kg	☼	01/22/18 08:43	01/30/18 05:08	2

Client Sample ID: B3FMD2 — **Lab Sample ID: 160-26413-8**
Date Collected: 01/15/18 11:20 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6300	D	12.4	4.9	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Antimony	0.50	B D	1.2	0.50	mg/Kg	☼	01/22/18 08:45	01/29/18 19:53	5
Arsenic	3.4	D	2.5	0.99	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Barium	71.1	D	4.9	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Cadmium	0.060	B D	0.12	0.059	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Chromium	10.5	D	2.5	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Copper	13.6	D	2.5	0.99	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Lead	4.0	D	0.74	0.31	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Manganese	313	D N	1.2	0.49	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Nickel	10.1	D	1.2	0.49	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Selenium	0.32	U D	0.49	0.32	mg/Kg	☼	01/22/18 08:43	02/06/18 18:37	2
Silver	0.19	U D	0.49	0.19	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5
Uranium	0.51	D	0.25	0.099	mg/Kg	☼	01/22/18 08:43	01/30/18 05:15	5

Client Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FLN8 — **Lab Sample ID: 160-26413-9**
Date Collected: 01/11/18 14:30 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7210	D	11.5	4.6	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Antimony	0.52	B D	1.2	0.50	mg/Kg	☼	01/22/18 08:45	01/29/18 19:57	5
Arsenic	3.1	D	2.3	0.92	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Barium	72.1	D	4.6	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Cadmium	0.085	B D	0.12	0.055	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Chromium	9.6	D	2.3	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Copper	15.6	D	2.3	0.92	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Lead	6.1	D	0.69	0.29	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Manganese	313	D N	1.2	0.46	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Nickel	10.2	D	1.2	0.46	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Selenium	0.74	U D	1.2	0.74	mg/Kg	☼	01/22/18 08:43	02/06/18 18:44	5
Silver	0.17	U D	0.46	0.17	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5
Uranium	0.45	D	0.23	0.092	mg/Kg	☼	01/22/18 08:43	01/30/18 05:22	5

Client Sample ID: B3FLN2 — **Lab Sample ID: 160-26413-10**
Date Collected: 01/11/18 14:10 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7880	D	12.3	4.9	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Antimony	0.53	B D	1.2	0.48	mg/Kg	☼	01/22/18 08:45	01/29/18 20:15	5
Arsenic	4.3	D	2.5	0.98	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Barium	79.1	D	4.9	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Cadmium	0.080	B D	0.12	0.059	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Chromium	14.1	D	2.5	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Copper	15.1	D	2.5	0.98	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Lead	5.3	D	0.74	0.31	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Manganese	344	D N	1.2	0.49	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Nickel	11.1	D	1.2	0.49	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Selenium	0.79	U D	1.2	0.79	mg/Kg	☼	01/22/18 08:43	02/06/18 18:51	5
Silver	0.18	U D	0.49	0.18	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5
Uranium	0.45	D	0.25	0.098	mg/Kg	☼	01/22/18 08:43	01/30/18 05:28	5

Client Sample ID: B3FLM9 — **Lab Sample ID: 160-26413-11**
Date Collected: 01/11/18 13:22 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7910	D	11.8	4.7	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Antimony	0.54	B D	1.2	0.50	mg/Kg	☼	01/22/18 08:45	01/29/18 20:20	5
Arsenic	3.5	D	2.4	0.94	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Barium	84.0	D	4.7	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Cadmium	0.078	B D	0.12	0.056	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Chromium	12.8	D	2.4	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Copper	14.9	D	2.4	0.94	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Lead	4.6	D	0.71	0.29	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Manganese	362	D N	1.2	0.47	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Nickel	12.4	D	1.2	0.47	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Selenium	0.75	U D	1.2	0.75	mg/Kg	☼	01/22/18 08:43	02/06/18 18:57	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5
Uranium	0.35	D	0.24	0.094	mg/Kg	☼	01/22/18 08:43	01/30/18 05:35	5

Client Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FLV9 — **Lab Sample ID: 160-26413-12**
Date Collected: 01/15/18 09:46 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7600	D	12.2	4.9	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Antimony	0.48	U D	1.2	0.48	mg/Kg	☼	01/22/18 08:45	01/29/18 20:24	5
Arsenic	3.9	D	2.4	0.98	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Barium	69.0	D	4.9	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Cadmium	0.067	B D	0.12	0.059	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Chromium	11.2	D	2.4	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Copper	13.6	D	2.4	0.98	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Lead	4.4	D	0.73	0.31	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Manganese	330	D N	1.2	0.49	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Nickel	10.2	D	1.2	0.49	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Selenium	0.78	U D	1.2	0.78	mg/Kg	☼	01/22/18 08:43	02/06/18 19:04	5
Silver	0.18	U D	0.49	0.18	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5
Uranium	0.52	D	0.24	0.098	mg/Kg	☼	01/22/18 08:43	01/30/18 05:42	5

Client Sample ID: B3FLV3 — **Lab Sample ID: 160-26413-13**
Date Collected: 01/15/18 09:27 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 92.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7060	D	12.8	5.1	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Antimony	0.55	B D	1.3	0.52	mg/Kg	☼	01/22/18 08:45	01/29/18 20:28	5
Arsenic	3.9	D	2.6	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Barium	80.6	D	5.1	1.3	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Cadmium	0.089	B D	0.13	0.062	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Chromium	9.7	D	2.6	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Copper	12.9	D	2.6	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Lead	4.5	D	0.77	0.32	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Manganese	359	D N	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Nickel	11.0	D	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Selenium	0.82	U D	1.3	0.82	mg/Kg	☼	01/22/18 08:43	02/06/18 19:11	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5
Uranium	0.48	D	0.26	0.10	mg/Kg	☼	01/22/18 08:43	01/30/18 05:49	5

Client Sample ID: B3FMC6 — **Lab Sample ID: 160-26413-14**
Date Collected: 01/15/18 11:03 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7370	D	12.7	5.1	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Antimony	0.47	U D	1.2	0.47	mg/Kg	☼	01/22/18 08:45	01/29/18 20:33	5
Arsenic	3.1	D	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Barium	72.1	D	5.1	1.3	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Cadmium	0.064	B D	0.13	0.061	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Chromium	10.9	D	2.5	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Copper	16.3	D	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Lead	4.0	D	0.76	0.32	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Manganese	301	D N	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Nickel	10.9	D	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Selenium	0.81	U D	1.3	0.81	mg/Kg	☼	01/22/18 08:43	02/06/18 19:17	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5
Uranium	0.46	D	0.25	0.10	mg/Kg	☼	01/22/18 08:43	01/30/18 06:16	5

Client Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMC3 — **Lab Sample ID: 160-26413-15**
Date Collected: 01/15/18 10:50 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7040	D	12.7	5.1	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Antimony	0.52	U D	1.3	0.52	mg/Kg	☼	01/22/18 08:45	01/29/18 20:37	5
Arsenic	2.8	D	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Barium	73.1	D	5.1	1.3	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Cadmium	0.089	B D	0.13	0.061	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Chromium	9.7	D	2.5	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Copper	12.7	D	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Lead	6.5	D	0.76	0.32	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Manganese	317	D N	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Nickel	9.9	D	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Selenium	0.81	U D	1.3	0.81	mg/Kg	☼	01/22/18 08:43	02/06/18 19:24	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5
Uranium	0.39	D	0.25	0.10	mg/Kg	☼	01/22/18 08:43	01/30/18 06:22	5

Client Sample ID: B3FMC9 — **Lab Sample ID: 160-26413-16**
Date Collected: 01/15/18 11:13 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7150	D	12.1	4.8	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Antimony	0.48	U D	1.2	0.48	mg/Kg	☼	01/22/18 08:45	01/29/18 20:42	5
Arsenic	2.9	D	2.4	0.97	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Barium	67.5	D	4.8	1.2	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Cadmium	0.064	B D	0.12	0.058	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Chromium	11.5	D	2.4	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Copper	12.3	D	2.4	0.97	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Lead	4.3	D	0.73	0.30	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Manganese	314	D N	1.2	0.48	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Nickel	20.7	D	1.2	0.48	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Selenium	0.77	U D	1.2	0.77	mg/Kg	☼	01/22/18 08:43	02/06/18 19:31	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5
Uranium	1.9	D	0.24	0.097	mg/Kg	☼	01/22/18 08:43	01/30/18 06:29	5

Client Sample ID: B3FLV1 — **Lab Sample ID: 160-26413-17**
Date Collected: 01/15/18 09:27 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 93.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7440	D	12.7	5.1	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Antimony	0.48	B D	1.2	0.48	mg/Kg	☼	01/22/18 08:45	01/29/18 20:46	5
Arsenic	3.3	D	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Barium	84.6	D	5.1	1.3	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Cadmium	0.084	B D	0.13	0.061	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Chromium	9.7	D	2.5	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Copper	12.8	D	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Lead	4.9	D	0.76	0.32	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Manganese	362	D N	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Nickel	10.8	D	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Selenium	0.81	U D	1.3	0.81	mg/Kg	☼	01/22/18 08:43	02/06/18 19:58	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5
Uranium	0.35	D	0.25	0.10	mg/Kg	☼	01/22/18 08:43	01/30/18 06:36	5

Client Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FLV6 — **Lab Sample ID: 160-26413-18**
Date Collected: 01/15/18 09:37 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7110**	**D**	12.7	5.1	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	01/22/18 08:45	01/29/18 20:50	5
Arsenic	**3.0**	**D**	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Barium	**70.3**	**D**	5.1	1.3	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Cadmium	0.061	U D	0.13	0.061	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Chromium	**9.0**	**D**	2.5	1.1	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Copper	**12.7**	**D**	2.5	1.0	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Lead	**3.9**	**D**	0.76	0.32	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Manganese	**343**	**D N**	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Nickel	**8.9**	**D**	1.3	0.51	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Selenium	0.81	U D	1.3	0.81	mg/Kg	☼	01/22/18 08:43	02/06/18 20:04	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5
Uranium	**0.48**	**D**	0.25	0.10	mg/Kg	☼	01/22/18 08:43	01/30/18 06:43	5

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3FL37 — **Lab Sample ID: 160-26413-1**
Date Collected: 01/15/18 14:06 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:02	1

Client Sample ID: B3FMF6 — **Lab Sample ID: 160-26413-2**
Date Collected: 01/16/18 09:18 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:11	1

Client Sample ID: B3FMF3 — **Lab Sample ID: 160-26413-3**
Date Collected: 01/16/18 09:09 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:17	1

Client Sample ID: B3FMF9 — **Lab Sample ID: 160-26413-4**
Date Collected: 01/16/18 09:28 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:19	1

Client Sample ID: B3FMH2 — **Lab Sample ID: 160-26413-5**
Date Collected: 01/16/18 09:35 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.030	0.010	mg/Kg	☼	01/22/18 10:00	01/24/18 12:21	1

Client Sample ID: B3FMH5 — **Lab Sample ID: 160-26413-6**
Date Collected: 01/16/18 09:46 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.031	0.010	mg/Kg	☼	01/22/18 10:00	01/24/18 12:23	1

Client Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

Client Sample ID: B3FMJ0 — **Lab Sample ID: 160-26413-7**
Date Collected: 01/16/18 07:55 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.030	0.010	mg/Kg	☼	01/22/18 10:00	01/24/18 12:25	1

Client Sample ID: B3FMD2 — **Lab Sample ID: 160-26413-8**
Date Collected: 01/15/18 11:20 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:27	1

Client Sample ID: B3FLN8 — **Lab Sample ID: 160-26413-9**
Date Collected: 01/11/18 14:30 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:29	1

Client Sample ID: B3FLN2 — **Lab Sample ID: 160-26413-10**
Date Collected: 01/11/18 14:10 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:31	1

Client Sample ID: B3FLM9 — **Lab Sample ID: 160-26413-11**
Date Collected: 01/11/18 13:22 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:33	1

Client Sample ID: B3FLV9 — **Lab Sample ID: 160-26413-12**
Date Collected: 01/15/18 09:46 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.030	0.010	mg/Kg	☼	01/22/18 10:00	01/24/18 12:35	1

Client Sample ID: B3FLV3 — **Lab Sample ID: 160-26413-13**
Date Collected: 01/15/18 09:27 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 92.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	U	0.035	0.012	mg/Kg	☼	01/22/18 10:00	01/24/18 12:41	1

Client Sample ID: B3FMC6 — **Lab Sample ID: 160-26413-14**
Date Collected: 01/15/18 11:03 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**B**	0.032	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:43	1

Client Sample ID: B3FMC3 — **Lab Sample ID: 160-26413-15**
Date Collected: 01/15/18 10:50 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**B**	0.033	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:45	1

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3FMC9 — **Lab Sample ID: 160-26413-16**
Date Collected: 01/15/18 11:13 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:47	1

Client Sample ID: B3FLV1 — **Lab Sample ID: 160-26413-17**
Date Collected: 01/15/18 09:27 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 93.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.031	0.010	mg/Kg	☼	01/22/18 10:00	01/24/18 12:49	1

Client Sample ID: B3FLV6 — **Lab Sample ID: 160-26413-18**
Date Collected: 01/15/18 09:37 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	01/22/18 10:00	01/24/18 12:50	1

General Chemistry

Client Sample ID: B3FL37 — **Lab Sample ID: 160-26413-1**
Date Collected: 01/15/18 14:06 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.93**	**C**	0.53	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 13:12	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 21:49	1

Client Sample ID: B3FMF6 — **Lab Sample ID: 160-26413-2**
Date Collected: 01/16/18 09:18 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.47**	**B C**	0.52	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 13:18	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 21:59	1

Client Sample ID: B3FMF3 — **Lab Sample ID: 160-26413-3**
Date Collected: 01/16/18 09:09 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.69**	**C**	0.53	0.24	mg/Kg	☼	02/08/18 15:00	02/09/18 13:21	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:03	1

Client Sample ID: B3FMF9 — **Lab Sample ID: 160-26413-4**
Date Collected: 01/16/18 09:28 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.47**	**B C**	0.52	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 13:23	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:06	1

Client Sample ID: B3FMH2 — **Lab Sample ID: 160-26413-5**
Date Collected: 01/16/18 09:35 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.51**	**B C**	0.52	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 13:30	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:10	1

General Chemistry

Client Sample ID: B3FMH5 — **Lab Sample ID: 160-26413-6**
Date Collected: 01/16/18 09:46 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.57**	**C**	0.52	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 13:32	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:20	1

Client Sample ID: B3FMJ0 — **Lab Sample ID: 160-26413-7**
Date Collected: 01/16/18 07:55 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.45**	**B C**	0.50	0.22	mg/Kg	☼	02/08/18 15:00	02/09/18 13:34	1
Cyanide, Total	0.11	U	0.50	0.11	mg/Kg	☼	01/29/18 19:00	01/29/18 22:23	1

Client Sample ID: B3FMD2 — **Lab Sample ID: 160-26413-8**
Date Collected: 01/15/18 11:20 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.63**	**C**	0.52	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 13:37	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:27	1

Client Sample ID: B3FLN2 — **Lab Sample ID: 160-26413-10**
Date Collected: 01/11/18 14:10 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.12	U Z	0.53	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:30	1

Client Sample ID: B3FLM9 — **Lab Sample ID: 160-26413-11**
Date Collected: 01/11/18 13:22 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.95**	**Z C**	0.54	0.24	mg/Kg	☼	02/08/18 15:00	02/09/18 13:39	1
Cyanide, Total	0.12	U Z	0.54	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:33	1

Client Sample ID: B3FLV9 — **Lab Sample ID: 160-26413-12**
Date Collected: 01/15/18 09:46 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.62**	**C**	0.52	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 13:43	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:40	1

Client Sample ID: B3FLV3 — **Lab Sample ID: 160-26413-13**
Date Collected: 01/15/18 09:27 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 92.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**1.3**	**C**	0.54	0.24	mg/Kg	☼	02/08/18 15:00	02/09/18 13:46	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:44	1

Client Sample ID: B3FMC6 — **Lab Sample ID: 160-26413-14**
Date Collected: 01/15/18 11:03 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.56**	**C**	0.52	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 13:48	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:47	1

General Chemistry

Client Sample ID: B3FMC3 — **Lab Sample ID: 160-26413-15**
Date Collected: 01/15/18 10:50 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.81**	**C**	0.53	0.24	mg/Kg	☼	02/08/18 15:00	02/09/18 13:50	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 22:50	1

Client Sample ID: B3FMC9 — **Lab Sample ID: 160-26413-16**
Date Collected: 01/15/18 11:13 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.68**	**C**	0.52	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 13:57	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 23:01	1

Client Sample ID: B3FLV1 — **Lab Sample ID: 160-26413-17**
Date Collected: 01/15/18 09:27 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 93.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.70**	**C**	0.53	0.24	mg/Kg	☼	02/08/18 15:00	02/09/18 13:59	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 23:04	1

Client Sample ID: B3FLV6 — **Lab Sample ID: 160-26413-18**
Date Collected: 01/15/18 09:37 — **Matrix: Soil**
Date Received: 01/18/18 10:00 — **Percent Solids: 95.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.65**	**C**	0.52	0.23	mg/Kg	☼	02/08/18 15:00	02/09/18 14:01	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	01/29/18 19:00	01/29/18 23:07	1

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

Lab Sample ID: MB 160-347338/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348326 — **Prep Batch: 347338**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	46	U	330	46	ug/Kg		01/22/18 14:09	01/26/18 10:55	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*				*01/22/18 14:09*	*01/26/18 10:55*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*47 - 125*	*01/22/18 14:09*	*01/26/18 10:55*	*1*
2-Fluorobiphenyl (Surr)	*83*		*59 - 110*	*01/22/18 14:09*	*01/26/18 10:55*	*1*
2-Fluorophenol (Surr)	*84*		*54 - 102*	*01/22/18 14:09*	*01/26/18 10:55*	*1*
Nitrobenzene-d5 (Surr)	*81*		*44 - 120*	*01/22/18 14:09*	*01/26/18 10:55*	*1*
Phenol-d5 (Surr)	*85*		*51 - 104*	*01/22/18 14:09*	*01/26/18 10:55*	*1*
Terphenyl-d14 (Surr)	*95*		*59 - 98*	*01/22/18 14:09*	*01/26/18 10:55*	*1*

Lab Sample ID: LCS 160-347338/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348326 — **Prep Batch: 347338**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tributyl phosphate	3330	2950		ug/Kg		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*47 - 125*
2-Fluorobiphenyl (Surr)	*85*		*59 - 110*
2-Fluorophenol (Surr)	*87*		*54 - 102*
Nitrobenzene-d5 (Surr)	*81*		*44 - 120*
Phenol-d5 (Surr)	*87*		*51 - 104*
Terphenyl-d14 (Surr)	*95*		*59 - 98*

Lab Sample ID: 160-26413-2 MS — **Client Sample ID: B3FMF6**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 348326 — **Prep Batch: 347338**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tributyl phosphate	47	U	3460	3080		ug/Kg	☼	89	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*47 - 125*
2-Fluorobiphenyl (Surr)	*85*		*59 - 110*
2-Fluorophenol (Surr)	*87*		*54 - 102*
Nitrobenzene-d5 (Surr)	*80*		*44 - 120*
Phenol-d5 (Surr)	*89*		*51 - 104*
Terphenyl-d14 (Surr)	*96*		*59 - 98*

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

Lab Sample ID: 160-26413-2 MSD — **Client Sample ID: B3FMF6**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 348326 — **Prep Batch: 347338**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tributyl phosphate	47	U	3440	2970		ug/Kg	☼	86	50 - 150	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*82*		*47 - 125*
2-Fluorobiphenyl (Surr)	*83*		*59 - 110*
2-Fluorophenol (Surr)	*84*		*54 - 102*
Nitrobenzene-d5 (Surr)	*78*		*44 - 120*
Phenol-d5 (Surr)	*84*		*51 - 104*
Terphenyl-d14 (Surr)	*92*		*59 - 98*

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

Lab Sample ID: MB 160-347346/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 347740 — **Prep Batch: 347346**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.4	U	25	2.4	mg/Kg		01/22/18 16:11	01/24/18 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*49 - 133*	*01/22/18 16:11*	*01/24/18 14:05*	*1*

Lab Sample ID: LCS 160-347346/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 347740 — **Prep Batch: 347346**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	61.5		mg/Kg		74	57 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*78*		*49 - 133*

Lab Sample ID: 160-26413-3 MS — **Client Sample ID: B3FMF3**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 347740 — **Prep Batch: 347346**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2.6	U	88.3	74.3		mg/Kg	☼	84	34 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*95*		*49 - 133*

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

Lab Sample ID: 160-26413-3 MSD — **Client Sample ID: B3FMF3**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 347740 — **Prep Batch: 347346**

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	87.6	75.8		mg/Kg	☼	87	34 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*94*		*49 - 133*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-347204/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348796 — **Prep Batch: 347204**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.9	U D	4.7	1.9	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Arsenic	0.38	U D	0.94	0.38	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Barium	0.47	U D	1.9	0.47	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Cadmium	0.023	U D	0.047	0.023	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Chromium	0.42	U D	0.94	0.42	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Copper	0.38	U D	0.94	0.38	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Lead	0.12	U D	0.28	0.12	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Manganese	0.19	U D	0.47	0.19	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Nickel	0.19	U D	0.47	0.19	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Silver	0.070	U D	0.19	0.070	mg/Kg		01/22/18 08:43	01/30/18 03:27	2
Uranium	0.038	U D	0.094	0.038	mg/Kg		01/22/18 08:43	01/30/18 03:27	2

Lab Sample ID: MB 160-347204/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349938 — **Prep Batch: 347204**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.30	U D	0.47	0.30	mg/Kg		01/22/18 08:43	02/06/18 16:30	2

Lab Sample ID: LCS 160-347204/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348796 — **Prep Batch: 347204**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	97.0	95.31	D	mg/Kg		98	80 - 120

Lab Sample ID: LCSSRM 160-347204/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348796 — **Prep Batch: 347204**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	7055	D	mg/Kg		87.2	39.6 - 160.7
Arsenic	100	96.39	D	mg/Kg		96.4	69.6 - 131.0

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

Lab Sample ID: LCSSRM 160-347204/3-A
Matrix: Solid
Analysis Batch: 348796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347204

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	217	202.5	D	mg/Kg		93.3	73.7 - 128.1
Cadmium	83.7	76.67	D	mg/Kg		91.6	73.2 - 131.4
Chromium	107	98.26	D	mg/Kg		91.8	69.4 - 134.6
Copper	166	162.3	D	mg/Kg		97.8	75.3 - 128.3
Lead	88.4	79.96	D	mg/Kg		90.5	69.9 - 130.1
Manganese	311	323.6	D	mg/Kg		104.1	74.9 - 125.4
Nickel	49.8	49.10	D	mg/Kg		98.6	69.1 - 135.1
Silver	41.4	38.99	D	mg/Kg		94.2	65.9 - 133.8

Lab Sample ID: LCSSRM 160-347204/3-A
Matrix: Solid
Analysis Batch: 349938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347204

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	87.7	85.80	D	mg/Kg		97.8	64.1 - 135.7

Lab Sample ID: 160-26413-1 MS
Matrix: Soil
Analysis Batch: 348796

Client Sample ID: B3FL37
Prep Type: Total/NA
Prep Batch: 347204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	6060	D	1020	10020	D X	mg/Kg	☼	388	75 - 125
Arsenic	2.8	D	102	102.7	D	mg/Kg	☼	98	75 - 125
Barium	68.4	D	102	169.4	D	mg/Kg	☼	99	75 - 125
Cadmium	0.081	B D	102	97.73	D	mg/Kg	☼	96	75 - 125
Chromium	7.8	D	102	105.7	D	mg/Kg	☼	96	75 - 125
Copper	13.7	D	102	120.0	D	mg/Kg	☼	104	75 - 125
Lead	3.4	D	102	101.4	D	mg/Kg	☼	96	75 - 125
Manganese	293	D N	102	478.5	D N	mg/Kg	☼	181	75 - 125
Nickel	8.0	D	102	111.2	D	mg/Kg	☼	101	75 - 125
Silver	0.19	U D	20.4	20.03	D	mg/Kg	☼	98	75 - 125
Uranium	0.40	D	102	99.33	D	mg/Kg	☼	97	75 - 125

Lab Sample ID: 160-26413-1 MS
Matrix: Soil
Analysis Batch: 349938

Client Sample ID: B3FL37
Prep Type: Total/NA
Prep Batch: 347204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.80	U D	51.1	47.76	D	mg/Kg	☼	94	75 - 125

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

Lab Sample ID: 160-26413-1 MSD — **Client Sample ID: B3FL37**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 348796 — **Prep Batch: 347204**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	6060	D	1030	9346	D X	mg/Kg	☼	321	75 - 125	7	30
Arsenic	2.8	D	103	102.6	D	mg/Kg	☼	97	75 - 125	0	30
Barium	68.4	D	103	189.3	D	mg/Kg	☼	118	75 - 125	11	30
Cadmium	0.081	B D	103	97.94	D	mg/Kg	☼	95	75 - 125	0	30
Chromium	7.8	D	103	108.3	D	mg/Kg	☼	98	75 - 125	2	30
Copper	13.7	D	103	116.4	D	mg/Kg	☼	100	75 - 125	3	30
Lead	3.4	D	103	101.9	D	mg/Kg	☼	96	75 - 125	1	30
Manganese	293	D N	103	485.9	D N	mg/Kg	☼	188	75 - 125	2	30
Nickel	8.0	D	103	110.8	D	mg/Kg	☼	100	75 - 125	0	30
Silver	0.19	U D	20.5	19.91	D	mg/Kg	☼	97	75 - 125	1	30
Uranium	0.40	D	103	98.61	D	mg/Kg	☼	96	75 - 125	1	30

Lab Sample ID: 160-26413-1 MSD — **Client Sample ID: B3FL37**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349938 — **Prep Batch: 347204**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	0.80	U D	51.3	49.47	D	mg/Kg	☼	96	75 - 125	4	30

Lab Sample ID: MB 160-347206/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348776 — **Prep Batch: 347206**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.18	U D	0.44	0.18	mg/Kg		01/22/18 08:45	01/29/18 18:46	2

Lab Sample ID: LCS 160-347206/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348776 — **Prep Batch: 347206**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	46.6	43.25	D	mg/Kg		93	21 - 251

Lab Sample ID: 160-26413-1 MS — **Client Sample ID: B3FL37**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 348776 — **Prep Batch: 347206**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.74	B D	50.1	48.43	D	mg/Kg	☼	95	75 - 125

Lab Sample ID: 160-26413-1 MSD — **Client Sample ID: B3FL37**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 348776 — **Prep Batch: 347206**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.74	B D	48.8	48.48	D	mg/Kg	☼	98	75 - 125	0	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-347298/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 347782 — **Prep Batch: 347298**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.031	0.010	mg/Kg		01/22/18 10:00	01/24/18 11:58	1

Lab Sample ID: LCSSRM 160-347298/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 347782 — **Prep Batch: 347298**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.90	3.00	D	mg/Kg		103.4	50.7 - 149.3

Lab Sample ID: 160-26413-1 MS — **Client Sample ID: B3FL37**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 347782 — **Prep Batch: 347298**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.011	U	0.837	0.837		mg/Kg	☼	100	80 - 120

Lab Sample ID: 160-26413-1 MSD — **Client Sample ID: B3FL37**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 347782 — **Prep Batch: 347298**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.011	U	0.786	0.778		mg/Kg	☼	99	80 - 120	7	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-350289/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350474 — **Prep Batch: 350289**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.337	B	0.50	0.22	mg/Kg		02/08/18 15:00	02/09/18 13:03	1

Lab Sample ID: LCS 160-350289/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350474 — **Prep Batch: 350289**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	4.88		mg/Kg		98	90 - 110

Lab Sample ID: 160-26413-1 MS — **Client Sample ID: B3FL37**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 350474 — **Prep Batch: 350289**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.93	C	5.24	6.41		mg/Kg	☼	104	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 160-26413-11 MS — **Client Sample ID: B3FLM9**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 350474 — **Prep Batch: 350289**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.95	Z C	5.38	6.42		mg/Kg	☼	102	90 - 110

Lab Sample ID: 160-26413-1 DU — **Client Sample ID: B3FL37**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 350474 — **Prep Batch: 350289**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.93	C	0.831	C	mg/Kg	☼	11	30

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 160-348657/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348795 — **Prep Batch: 348657**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11	U	0.50	0.11	mg/Kg		01/29/18 19:00	01/29/18 21:39	1

Lab Sample ID: HLCS 160-348657/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348795 — **Prep Batch: 348657**

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

Lab Sample ID: LCS 160-348657/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 348795 — **Prep Batch: 348657**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.34		mg/Kg		98	85 - 115

Lab Sample ID: 160-26413-1 MS — **Client Sample ID: B3FL37**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 348795 — **Prep Batch: 348657**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.12	U	2.53	2.56		mg/Kg	☼	101	60 - 130

Lab Sample ID: 160-26413-11 MS — **Client Sample ID: B3FLM9**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 348795 — **Prep Batch: 348657**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.12	U Z	2.59	2.58		mg/Kg	☼	100	60 - 130

QC Sample Results

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

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

Lab Sample ID: 160-26413-1 DU
Matrix: Soil
Analysis Batch: 348795

Client Sample ID: B3FL37
Prep Type: Total/NA
Prep Batch: 348657

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.12	U		0.12	U	mg/Kg	☼			NC	30

QC Association Summary

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

GC/MS Semi VOA

Prep Batch: 347338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-2	B3FMF6	Total/NA	Soil	3550C	
160-26413-3	B3FMF3	Total/NA	Soil	3550C	
160-26413-4	B3FMF9	Total/NA	Soil	3550C	
160-26413-5	B3FMH2	Total/NA	Soil	3550C	
160-26413-6	B3FMH5	Total/NA	Soil	3550C	
160-26413-7	B3FMJ0	Total/NA	Soil	3550C	
MB 160-347338/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 160-347338/2-A	Lab Control Sample	Total/NA	Solid	3550C	
160-26413-2 MS	B3FMF6	Total/NA	Soil	3550C	
160-26413-2 MSD	B3FMF6	Total/NA	Soil	3550C	

Analysis Batch: 348326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-2	B3FMF6	Total/NA	Soil	8270D	347338
160-26413-3	B3FMF3	Total/NA	Soil	8270D	347338
160-26413-4	B3FMF9	Total/NA	Soil	8270D	347338
160-26413-5	B3FMH2	Total/NA	Soil	8270D	347338
160-26413-6	B3FMH5	Total/NA	Soil	8270D	347338
160-26413-7	B3FMJ0	Total/NA	Soil	8270D	347338
MB 160-347338/1-A	Method Blank	Total/NA	Solid	8270D	347338
LCS 160-347338/2-A	Lab Control Sample	Total/NA	Solid	8270D	347338
160-26413-2 MS	B3FMF6	Total/NA	Soil	8270D	347338
160-26413-2 MSD	B3FMF6	Total/NA	Soil	8270D	347338

GC Semi VOA

Prep Batch: 347346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-2	B3FMF6	Total/NA	Soil	3550C	
160-26413-3	B3FMF3	Total/NA	Soil	3550C	
160-26413-4	B3FMF9	Total/NA	Soil	3550C	
160-26413-5	B3FMH2	Total/NA	Soil	3550C	
160-26413-6	B3FMH5	Total/NA	Soil	3550C	
160-26413-7	B3FMJ0	Total/NA	Soil	3550C	
MB 160-347346/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 160-347346/2-A	Lab Control Sample	Total/NA	Solid	3550C	
160-26413-3 MS	B3FMF3	Total/NA	Soil	3550C	
160-26413-3 MSD	B3FMF3	Total/NA	Soil	3550C	

Analysis Batch: 347740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-2	B3FMF6	Total/NA	Soil	8015B	347346
160-26413-3	B3FMF3	Total/NA	Soil	8015B	347346
160-26413-4	B3FMF9	Total/NA	Soil	8015B	347346
160-26413-5	B3FMH2	Total/NA	Soil	8015B	347346
160-26413-6	B3FMH5	Total/NA	Soil	8015B	347346
160-26413-7	B3FMJ0	Total/NA	Soil	8015B	347346
MB 160-347346/1-A	Method Blank	Total/NA	Solid	8015B	347346
LCS 160-347346/2-A	Lab Control Sample	Total/NA	Solid	8015B	347346
160-26413-3 MS	B3FMF3	Total/NA	Soil	8015B	347346

GC Semi VOA (Continued)

Analysis Batch: 347740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-3 MSD	B3FMF3	Total/NA	Soil	8015B	347346

Metals

Prep Batch: 347204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	3050B	
160-26413-2	B3FMF6	Total/NA	Soil	3050B	
160-26413-3	B3FMF3	Total/NA	Soil	3050B	
160-26413-4	B3FMF9	Total/NA	Soil	3050B	
160-26413-5	B3FMH2	Total/NA	Soil	3050B	
160-26413-6	B3FMH5	Total/NA	Soil	3050B	
160-26413-7	B3FMJ0	Total/NA	Soil	3050B	
160-26413-8	B3FMD2	Total/NA	Soil	3050B	
160-26413-9	B3FLN8	Total/NA	Soil	3050B	
160-26413-10	B3FLN2	Total/NA	Soil	3050B	
160-26413-11	B3FLM9	Total/NA	Soil	3050B	
160-26413-12	B3FLV9	Total/NA	Soil	3050B	
160-26413-13	B3FLV3	Total/NA	Soil	3050B	
160-26413-14	B3FMC6	Total/NA	Soil	3050B	
160-26413-15	B3FMC3	Total/NA	Soil	3050B	
160-26413-16	B3FMC9	Total/NA	Soil	3050B	
160-26413-17	B3FLV1	Total/NA	Soil	3050B	
160-26413-18	B3FLV6	Total/NA	Soil	3050B	
MB 160-347204/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-347204/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-347204/3-A	Lab Control Sample	Total/NA	Solid	3050B	
160-26413-1 MS	B3FL37	Total/NA	Soil	3050B	
160-26413-1 MSD	B3FL37	Total/NA	Soil	3050B	

Prep Batch: 347206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	3050B-Sb	
160-26413-2	B3FMF6	Total/NA	Soil	3050B-Sb	
160-26413-3	B3FMF3	Total/NA	Soil	3050B-Sb	
160-26413-4	B3FMF9	Total/NA	Soil	3050B-Sb	
160-26413-5	B3FMH2	Total/NA	Soil	3050B-Sb	
160-26413-6	B3FMH5	Total/NA	Soil	3050B-Sb	
160-26413-7	B3FMJ0	Total/NA	Soil	3050B-Sb	
160-26413-8	B3FMD2	Total/NA	Soil	3050B-Sb	
160-26413-9	B3FLN8	Total/NA	Soil	3050B-Sb	
160-26413-10	B3FLN2	Total/NA	Soil	3050B-Sb	
160-26413-11	B3FLM9	Total/NA	Soil	3050B-Sb	
160-26413-12	B3FLV9	Total/NA	Soil	3050B-Sb	
160-26413-13	B3FLV3	Total/NA	Soil	3050B-Sb	
160-26413-14	B3FMC6	Total/NA	Soil	3050B-Sb	
160-26413-15	B3FMC3	Total/NA	Soil	3050B-Sb	
160-26413-16	B3FMC9	Total/NA	Soil	3050B-Sb	
160-26413-17	B3FLV1	Total/NA	Soil	3050B-Sb	
160-26413-18	B3FLV6	Total/NA	Soil	3050B-Sb	

Metals (Continued)

Prep Batch: 347206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-347206/1-A	Method Blank	Total/NA	Solid	3050B-Sb	
LCS 160-347206/2-A	Lab Control Sample	Total/NA	Solid	3050B-Sb	
160-26413-1 MS	B3FL37	Total/NA	Soil	3050B-Sb	
160-26413-1 MSD	B3FL37	Total/NA	Soil	3050B-Sb	

Prep Batch: 347298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	7471B	
160-26413-2	B3FMF6	Total/NA	Soil	7471B	
160-26413-3	B3FMF3	Total/NA	Soil	7471B	
160-26413-4	B3FMF9	Total/NA	Soil	7471B	
160-26413-5	B3FMH2	Total/NA	Soil	7471B	
160-26413-6	B3FMH5	Total/NA	Soil	7471B	
160-26413-7	B3FMJ0	Total/NA	Soil	7471B	
160-26413-8	B3FMD2	Total/NA	Soil	7471B	
160-26413-9	B3FLN8	Total/NA	Soil	7471B	
160-26413-10	B3FLN2	Total/NA	Soil	7471B	
160-26413-11	B3FLM9	Total/NA	Soil	7471B	
160-26413-12	B3FLV9	Total/NA	Soil	7471B	
160-26413-13	B3FLV3	Total/NA	Soil	7471B	
160-26413-14	B3FMC6	Total/NA	Soil	7471B	
160-26413-15	B3FMC3	Total/NA	Soil	7471B	
160-26413-16	B3FMC9	Total/NA	Soil	7471B	
160-26413-17	B3FLV1	Total/NA	Soil	7471B	
160-26413-18	B3FLV6	Total/NA	Soil	7471B	
MB 160-347298/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 160-347298/2-A	Lab Control Sample	Total/NA	Solid	7471B	
160-26413-1 MS	B3FL37	Total/NA	Soil	7471B	
160-26413-1 MSD	B3FL37	Total/NA	Soil	7471B	

Analysis Batch: 347782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	7471B	347298
160-26413-2	B3FMF6	Total/NA	Soil	7471B	347298
160-26413-3	B3FMF3	Total/NA	Soil	7471B	347298
160-26413-4	B3FMF9	Total/NA	Soil	7471B	347298
160-26413-5	B3FMH2	Total/NA	Soil	7471B	347298
160-26413-6	B3FMH5	Total/NA	Soil	7471B	347298
160-26413-7	B3FMJ0	Total/NA	Soil	7471B	347298
160-26413-8	B3FMD2	Total/NA	Soil	7471B	347298
160-26413-9	B3FLN8	Total/NA	Soil	7471B	347298
160-26413-10	B3FLN2	Total/NA	Soil	7471B	347298
160-26413-11	B3FLM9	Total/NA	Soil	7471B	347298
160-26413-12	B3FLV9	Total/NA	Soil	7471B	347298
160-26413-13	B3FLV3	Total/NA	Soil	7471B	347298
160-26413-14	B3FMC6	Total/NA	Soil	7471B	347298
160-26413-15	B3FMC3	Total/NA	Soil	7471B	347298
160-26413-16	B3FMC9	Total/NA	Soil	7471B	347298
160-26413-17	B3FLV1	Total/NA	Soil	7471B	347298
160-26413-18	B3FLV6	Total/NA	Soil	7471B	347298
MB 160-347298/1-A	Method Blank	Total/NA	Solid	7471B	347298

Metals (Continued)

Analysis Batch: 347782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 160-347298/2-A	Lab Control Sample	Total/NA	Solid	7471B	347298
160-26413-1 MS	B3FL37	Total/NA	Soil	7471B	347298
160-26413-1 MSD	B3FL37	Total/NA	Soil	7471B	347298

Analysis Batch: 348776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	6020A	347206
160-26413-2	B3FMF6	Total/NA	Soil	6020A	347206
160-26413-3	B3FMF3	Total/NA	Soil	6020A	347206
160-26413-4	B3FMF9	Total/NA	Soil	6020A	347206
160-26413-5	B3FMH2	Total/NA	Soil	6020A	347206
160-26413-6	B3FMH5	Total/NA	Soil	6020A	347206
160-26413-7	B3FMJ0	Total/NA	Soil	6020A	347206
160-26413-8	B3FMD2	Total/NA	Soil	6020A	347206
160-26413-9	B3FLN8	Total/NA	Soil	6020A	347206
160-26413-10	B3FLN2	Total/NA	Soil	6020A	347206
160-26413-11	B3FLM9	Total/NA	Soil	6020A	347206
160-26413-12	B3FLV9	Total/NA	Soil	6020A	347206
160-26413-13	B3FLV3	Total/NA	Soil	6020A	347206
160-26413-14	B3FMC6	Total/NA	Soil	6020A	347206
160-26413-15	B3FMC3	Total/NA	Soil	6020A	347206
160-26413-16	B3FMC9	Total/NA	Soil	6020A	347206
160-26413-17	B3FLV1	Total/NA	Soil	6020A	347206
160-26413-18	B3FLV6	Total/NA	Soil	6020A	347206
MB 160-347206/1-A	Method Blank	Total/NA	Solid	6020A	347206
LCS 160-347206/2-A	Lab Control Sample	Total/NA	Solid	6020A	347206
160-26413-1 MS	B3FL37	Total/NA	Soil	6020A	347206
160-26413-1 MSD	B3FL37	Total/NA	Soil	6020A	347206

Analysis Batch: 348796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	6020A	347204
160-26413-2	B3FMF6	Total/NA	Soil	6020A	347204
160-26413-3	B3FMF3	Total/NA	Soil	6020A	347204
160-26413-4	B3FMF9	Total/NA	Soil	6020A	347204
160-26413-5	B3FMH2	Total/NA	Soil	6020A	347204
160-26413-6	B3FMH5	Total/NA	Soil	6020A	347204
160-26413-7	B3FMJ0	Total/NA	Soil	6020A	347204
160-26413-8	B3FMD2	Total/NA	Soil	6020A	347204
160-26413-9	B3FLN8	Total/NA	Soil	6020A	347204
160-26413-10	B3FLN2	Total/NA	Soil	6020A	347204
160-26413-11	B3FLM9	Total/NA	Soil	6020A	347204
160-26413-12	B3FLV9	Total/NA	Soil	6020A	347204
160-26413-13	B3FLV3	Total/NA	Soil	6020A	347204
160-26413-14	B3FMC6	Total/NA	Soil	6020A	347204
160-26413-15	B3FMC3	Total/NA	Soil	6020A	347204
160-26413-16	B3FMC9	Total/NA	Soil	6020A	347204
160-26413-17	B3FLV1	Total/NA	Soil	6020A	347204
160-26413-18	B3FLV6	Total/NA	Soil	6020A	347204
MB 160-347204/1-A	Method Blank	Total/NA	Solid	6020A	347204
LCS 160-347204/2-A	Lab Control Sample	Total/NA	Solid	6020A	347204

Metals (Continued)

Analysis Batch: 348796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 160-347204/3-A	Lab Control Sample	Total/NA	Solid	6020A	347204
160-26413-1 MS	B3FL37	Total/NA	Soil	6020A	347204
160-26413-1 MSD	B3FL37	Total/NA	Soil	6020A	347204

Analysis Batch: 349938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	6020A	347204
160-26413-2	B3FMF6	Total/NA	Soil	6020A	347204
160-26413-3	B3FMF3	Total/NA	Soil	6020A	347204
160-26413-4	B3FMF9	Total/NA	Soil	6020A	347204
160-26413-5	B3FMH2	Total/NA	Soil	6020A	347204
160-26413-6	B3FMH5	Total/NA	Soil	6020A	347204
160-26413-7	B3FMJ0	Total/NA	Soil	6020A	347204
160-26413-8	B3FMD2	Total/NA	Soil	6020A	347204
160-26413-9	B3FLN8	Total/NA	Soil	6020A	347204
160-26413-10	B3FLN2	Total/NA	Soil	6020A	347204
160-26413-11	B3FLM9	Total/NA	Soil	6020A	347204
160-26413-12	B3FLV9	Total/NA	Soil	6020A	347204
160-26413-13	B3FLV3	Total/NA	Soil	6020A	347204
160-26413-14	B3FMC6	Total/NA	Soil	6020A	347204
160-26413-15	B3FMC3	Total/NA	Soil	6020A	347204
160-26413-16	B3FMC9	Total/NA	Soil	6020A	347204
160-26413-17	B3FLV1	Total/NA	Soil	6020A	347204
160-26413-18	B3FLV6	Total/NA	Soil	6020A	347204
MB 160-347204/1-A	Method Blank	Total/NA	Solid	6020A	347204
LCSSRM 160-347204/3-A	Lab Control Sample	Total/NA	Solid	6020A	347204
160-26413-1 MS	B3FL37	Total/NA	Soil	6020A	347204
160-26413-1 MSD	B3FL37	Total/NA	Soil	6020A	347204

General Chemistry

Analysis Batch: 347323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	Moisture	
160-26413-2	B3FMF6	Total/NA	Soil	Moisture	
160-26413-3	B3FMF3	Total/NA	Soil	Moisture	
160-26413-4	B3FMF9	Total/NA	Soil	Moisture	
160-26413-5	B3FMH2	Total/NA	Soil	Moisture	
160-26413-6	B3FMH5	Total/NA	Soil	Moisture	
160-26413-7	B3FMJ0	Total/NA	Soil	Moisture	
160-26413-8	B3FMD2	Total/NA	Soil	Moisture	
160-26413-9	B3FLN8	Total/NA	Soil	Moisture	
160-26413-10	B3FLN2	Total/NA	Soil	Moisture	
160-26413-11	B3FLM9	Total/NA	Soil	Moisture	
160-26413-12	B3FLV9	Total/NA	Soil	Moisture	
160-26413-13	B3FLV3	Total/NA	Soil	Moisture	
160-26413-14	B3FMC6	Total/NA	Soil	Moisture	
160-26413-15	B3FMC3	Total/NA	Soil	Moisture	
160-26413-16	B3FMC9	Total/NA	Soil	Moisture	
160-26413-17	B3FLV1	Total/NA	Soil	Moisture	

General Chemistry (Continued)

Analysis Batch: 347323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-18	B3FLV6	Total/NA	Soil	Moisture	
160-26400-B-1 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 348657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	9010C	
160-26413-2	B3FMF6	Total/NA	Soil	9010C	
160-26413-3	B3FMF3	Total/NA	Soil	9010C	
160-26413-4	B3FMF9	Total/NA	Soil	9010C	
160-26413-5	B3FMH2	Total/NA	Soil	9010C	
160-26413-6	B3FMH5	Total/NA	Soil	9010C	
160-26413-7	B3FMJ0	Total/NA	Soil	9010C	
160-26413-8	B3FMD2	Total/NA	Soil	9010C	
160-26413-10	B3FLN2	Total/NA	Soil	9010C	
160-26413-11	B3FLM9	Total/NA	Soil	9010C	
160-26413-12	B3FLV9	Total/NA	Soil	9010C	
160-26413-13	B3FLV3	Total/NA	Soil	9010C	
160-26413-14	B3FMC6	Total/NA	Soil	9010C	
160-26413-15	B3FMC3	Total/NA	Soil	9010C	
160-26413-16	B3FMC9	Total/NA	Soil	9010C	
160-26413-17	B3FLV1	Total/NA	Soil	9010C	
160-26413-18	B3FLV6	Total/NA	Soil	9010C	
MB 160-348657/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 160-348657/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 160-348657/2-A	Lab Control Sample	Total/NA	Solid	9010C	
160-26413-1 MS	B3FL37	Total/NA	Soil	9010C	
160-26413-11 MS	B3FLM9	Total/NA	Soil	9010C	
160-26413-1 DU	B3FL37	Total/NA	Soil	9010C	

Analysis Batch: 348795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	9012B	348657
160-26413-2	B3FMF6	Total/NA	Soil	9012B	348657
160-26413-3	B3FMF3	Total/NA	Soil	9012B	348657
160-26413-4	B3FMF9	Total/NA	Soil	9012B	348657
160-26413-5	B3FMH2	Total/NA	Soil	9012B	348657
160-26413-6	B3FMH5	Total/NA	Soil	9012B	348657
160-26413-7	B3FMJ0	Total/NA	Soil	9012B	348657
160-26413-8	B3FMD2	Total/NA	Soil	9012B	348657
160-26413-10	B3FLN2	Total/NA	Soil	9012B	348657
160-26413-11	B3FLM9	Total/NA	Soil	9012B	348657
160-26413-12	B3FLV9	Total/NA	Soil	9012B	348657
160-26413-13	B3FLV3	Total/NA	Soil	9012B	348657
160-26413-14	B3FMC6	Total/NA	Soil	9012B	348657
160-26413-15	B3FMC3	Total/NA	Soil	9012B	348657
160-26413-16	B3FMC9	Total/NA	Soil	9012B	348657
160-26413-17	B3FLV1	Total/NA	Soil	9012B	348657
160-26413-18	B3FLV6	Total/NA	Soil	9012B	348657
MB 160-348657/1-A	Method Blank	Total/NA	Solid	9012B	348657
HLCS 160-348657/3-A	Lab Control Sample	Total/NA	Solid	9012B	348657
LCS 160-348657/2-A	Lab Control Sample	Total/NA	Solid	9012B	348657

General Chemistry (Continued)

Analysis Batch: 348795 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1 MS	B3FL37	Total/NA	Soil	9012B	348657
160-26413-11 MS	B3FLM9	Total/NA	Soil	9012B	348657
160-26413-1 DU	B3FL37	Total/NA	Soil	9012B	348657

Prep Batch: 350289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	DILeach_Prep	
160-26413-2	B3FMF6	Total/NA	Soil	DILeach_Prep	
160-26413-3	B3FMF3	Total/NA	Soil	DILeach_Prep	
160-26413-4	B3FMF9	Total/NA	Soil	DILeach_Prep	
160-26413-5	B3FMH2	Total/NA	Soil	DILeach_Prep	
160-26413-6	B3FMH5	Total/NA	Soil	DILeach_Prep	
160-26413-7	B3FMJ0	Total/NA	Soil	DILeach_Prep	
160-26413-8	B3FMD2	Total/NA	Soil	DILeach_Prep	
160-26413-11	B3FLM9	Total/NA	Soil	DILeach_Prep	
160-26413-12	B3FLV9	Total/NA	Soil	DILeach_Prep	
160-26413-13	B3FLV3	Total/NA	Soil	DILeach_Prep	
160-26413-14	B3FMC6	Total/NA	Soil	DILeach_Prep	
160-26413-15	B3FMC3	Total/NA	Soil	DILeach_Prep	
160-26413-16	B3FMC9	Total/NA	Soil	DILeach_Prep	
160-26413-17	B3FLV1	Total/NA	Soil	DILeach_Prep	
160-26413-18	B3FLV6	Total/NA	Soil	DILeach_Prep	
MB 160-350289/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	
LCS 160-350289/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
160-26413-1 MS	B3FL37	Total/NA	Soil	DILeach_Prep	
160-26413-11 MS	B3FLM9	Total/NA	Soil	DILeach_Prep	
160-26413-1 DU	B3FL37	Total/NA	Soil	DILeach_Prep	

Analysis Batch: 350474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26413-1	B3FL37	Total/NA	Soil	350.1	350289
160-26413-2	B3FMF6	Total/NA	Soil	350.1	350289
160-26413-3	B3FMF3	Total/NA	Soil	350.1	350289
160-26413-4	B3FMF9	Total/NA	Soil	350.1	350289
160-26413-5	B3FMH2	Total/NA	Soil	350.1	350289
160-26413-6	B3FMH5	Total/NA	Soil	350.1	350289
160-26413-7	B3FMJ0	Total/NA	Soil	350.1	350289
160-26413-8	B3FMD2	Total/NA	Soil	350.1	350289
160-26413-11	B3FLM9	Total/NA	Soil	350.1	350289
160-26413-12	B3FLV9	Total/NA	Soil	350.1	350289
160-26413-13	B3FLV3	Total/NA	Soil	350.1	350289
160-26413-14	B3FMC6	Total/NA	Soil	350.1	350289
160-26413-15	B3FMC3	Total/NA	Soil	350.1	350289
160-26413-16	B3FMC9	Total/NA	Soil	350.1	350289
160-26413-17	B3FLV1	Total/NA	Soil	350.1	350289
160-26413-18	B3FLV6	Total/NA	Soil	350.1	350289
MB 160-350289/1-A	Method Blank	Total/NA	Solid	350.1	350289
LCS 160-350289/2-A	Lab Control Sample	Total/NA	Solid	350.1	350289
160-26413-1 MS	B3FL37	Total/NA	Soil	350.1	350289
160-26413-11 MS	B3FLM9	Total/NA	Soil	350.1	350289
160-26413-1 DU	B3FL37	Total/NA	Soil	350.1	350289

Surrogate Summary

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

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)
160-26413-2	B3FMF6	75	72	72	68	73	87
160-26413-2 MS	B3FMF6	87	85	87	80	89	96
160-26413-2 MSD	B3FMF6	82	83	84	78	84	92
160-26413-3	B3FMF3	80	81	82	80	84	92
160-26413-4	B3FMF9	80	79	80	76	81	88
160-26413-5	B3FMH2	83	78	77	74	78	95
160-26413-6	B3FMH5	80	80	83	80	83	90
160-26413-7	B3FMJ0	78	77	77	73	77	92

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 160-347338/2-A	Lab Control Sample	83	85	87	81	87	95
MB 160-347338/1-A	Method Blank	78	83	84	81	85	95

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)
160-26413-2	B3FMF6	71
160-26413-3	B3FMF3	81
160-26413-3 MS	B3FMF3	95
160-26413-3 MSD	B3FMF3	94
160-26413-4	B3FMF9	87
160-26413-5	B3FMH2	67
160-26413-6	B3FMH5	69
160-26413-7	B3FMJ0	85

Surrogate Legend

Surrogate Summary

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

TestAmerica Job ID: 160-26413-1
SDG: SL2793

OTPH = o-Terphenyl

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**OTPH1 (49-133)**							
LCS 160-347346/2-A	Lab Control Sample	78							
MB 160-347346/1-A	Method Blank	68							

Surrogate Legend

OTPH = o-Terphenyl