TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-98955-1
TestAmerica Sample Delivery Group: DN0171
Client Project/Site: F17-049

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

Attn: Mr. Scot Fitzgerald

Authorized for release by:
7/18/2017 4:14:58 PM
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LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Chain of Custody 5
Definitions 36
Method Summary 37
Sample Summary 38
Client Sample Results 39
QC Sample Results 64
QC Association 74
Surrogate Summary 80

Job ID: 280-98955-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: CH2M Hill Plateau Remediation Company

Project: F17-049

Report Number: 280-98955-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 7/6/2017 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.5º C and 3.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)

Samples B3BLR7 (280-98955-1), B3BLP9 (280-98955-2), B3BLP7 (280-98955-3), B3BLR5 (280-98955-4), B3BLT3 (280-98955-5), B3BLR9 (280-98955-6), B3BLT1 (280-98955-7), B3BLP3 (280-98955-8), B3BLR3 (280-98955-9), B3BLR1 (280-98955-10), B3BLP1 (280-98955-11), B3BLN9 (280-98955-12), B3BLN7 (280-98955-13) and B3BLP5 (280-98955-14) were analyzed for Semivolatile organic compounds - Selected Ion Mode (SIM) in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared on 07/10/2017 and analyzed on 07/13/2017.

Phenanthrene failed the recovery criteria high for the MS of sample B3BLR7 (280-98955-1). Benzo[a]anthracene, Chrysene, Fluoranthene and Pyrene failed the recovery criteria high for the MSD. The associated LCS was in control; therefore, corrective action was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ORGANOCHLORINE PESTICIDES

Samples B3BLR7 (280-98955-1), B3BLP9 (280-98955-2), B3BLP7 (280-98955-3), B3BLR5 (280-98955-4), B3BLT3 (280-98955-5), B3BLR9 (280-98955-6), B3BLT1 (280-98955-7), B3BLP3 (280-98955-8), B3BLR3 (280-98955-9), B3BLR1 (280-98955-10), B3BLP1 (280-98955-11), B3BLN9 (280-98955-12), B3BLN7 (280-98955-13) and B3BLP5 (280-98955-14) were analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081B. The samples were prepared on 07/11/2017 and analyzed on 07/13/2017.

Decachlorobiphenyl failed the surrogate recovery criteria high for B3BLP9 (280-98955-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The sample B3BLR7 (280-98955-1) in preparation batch 280-380348 and analytical batch 280-380695 had numerous non-target peaks and significant baseline rise that could be interfering with the identification and quantitation of target analytes. This inference could cause false positive and/or negative results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE PETROLEUM PRODUCTS

Samples B3BLR7 (280-98955-1), B3BLP9 (280-98955-2), B3BLP7 (280-98955-3), B3BLR5 (280-98955-4), B3BLT3 (280-98955-5), B3BLR9 (280-98955-6), B3BLT1 (280-98955-7), B3BLP3 (280-98955-8), B3BLR3 (280-98955-9), B3BLR1 (280-98955-10), B3BLP1

Job ID: 280-98955-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

(280-98955-11), B3BLN9 (280-98955-12), B3BLN7 (280-98955-13) and B3BLP5 (280-98955-14) were analyzed for Semivolatile Petroleum Products in accordance with NWTPH_Dx. The samples were prepared on 07/10/2017 and analyzed on 07/12/2017 and 07/13/2017.

The Chain of Custody requests "WTPH_KEROSENE: COMMON" analysis. While TestAmerica Denver holds Washington State (WDOE) accreditation for method NWTPH-Dx, Kerosene is not on the accreditation certificate at this time. As instructed by the client, the laboratory proceeded with the requested analysis.

Diesel (C10-C28) was detected in method blank MB 280-380234/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples B3BLR7 (280-98955-1), B3BLP9 (280-98955-2), B3BLP7 (280-98955-3), B3BLR5 (280-98955-4), B3BLT3 (280-98955-5), B3BLR9 (280-98955-6), B3BLT1 (280-98955-7), B3BLP3 (280-98955-8), B3BLR3 (280-98955-9), B3BLR1 (280-98955-10), B3BLP1 (280-98955-11), B3BLN9 (280-98955-12), B3BLN7 (280-98955-13) and B3BLP5 (280-98955-14) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/07/2017 and analyzed on 07/10/2017, 07/11/2017 and 07/12/2017.

Barium and Chromium were detected in method blank MB 280-380035/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Antimony failed the recovery criteria low for the MS/MSD of sample B3BLR5 (280-98955-4). Manganese failed the recovery criteria high. The associated LCS was in control; therefore, corrective action was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY (CVAA)

Samples B3BLR7 (280-98955-1), B3BLP9 (280-98955-2), B3BLP7 (280-98955-3), B3BLR5 (280-98955-4), B3BLT3 (280-98955-5), B3BLR9 (280-98955-6), B3BLT1 (280-98955-7), B3BLP3 (280-98955-8), B3BLR3 (280-98955-9), B3BLR1 (280-98955-10), B3BLP1 (280-98955-11), B3BLN9 (280-98955-12), B3BLN7 (280-98955-13) and B3BLP5 (280-98955-14) were analyzed for total mercury (CVAA) in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 07/11/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples B3BLR7 (280-98955-1), B3BLP9 (280-98955-2), B3BLP7 (280-98955-3), B3BLR5 (280-98955-4), B3BLT3 (280-98955-5), B3BLR9 (280-98955-6), B3BLT1 (280-98955-7), B3BLP3 (280-98955-8), B3BLR3 (280-98955-9), B3BLR1 (280-98955-10), B3BLP1 (280-98955-11), B3BLN9 (280-98955-12), B3BLN7 (280-98955-13) and B3BLP5 (280-98955-14) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 07/07/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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:

Jamie Ide
Project Manager

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 280-98955-1
SDG Number: DN0171

Login Number: 98955
List Number: 1
Creator: True, Joshua A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	3.8°C, 3.5°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-049-021	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE C01	DATA TURNAROUND
Frank Hall /CHPRC DN0171	SUMNER, LC	376-3922	SUMNER, LC	AIR QUALITY ☐	12 Days / 12 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
100-K-103, U1_Sample Area 1 EX1-9	100-K-103 & 100-K-79:9 Verification Sampling - Soil		F17-049		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
GWS-577	~~HNF-N~~ 507-38	0-6"	304306	FEDERAL EXPRESS	**ORIGINAL**
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica Denver	8140		7795 5759 9987		

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
HOLDING TIME	14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER	aG	G	G
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	250mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLR7	SOIL	JUL 05 2017	0838	✓	✓	✓

280-98955 Chain of Custody

3.8, 3.5 + 0.0 IR#7 JT

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Frank Hall /CHPRC	JUL 05 2017 1015	Janelle Zunker CHPRC	JUL 05 2017 1015	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
Janelle Zunker CHPRC	JUL 05 2017 1400	FEDEX		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
FedEx		Josh True	7/6/17 0850	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

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

PRINTED ON 6/22/2017 FSR ID = FSR47292 TRVL NUM = TRVL-17-173 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-021	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-9	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-577	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7715 5759 9987		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-013	PAGE 1 OF 2
COLLECTOR: Frank Hall /CHPRC DN0171	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	PRICE CODE: C01	DATA TURNAROUND
SAMPLING LOCATION: 100-K-103, U1_Sample Area 1 EX1-6	PROJECT DESIGNATION: 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO.: F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO.: GWS-577	FIELD LOGBOOK NO.: HNF-N-507-38	ACTUAL SAMPLE DEPTH: 0-6"	COA: 304306	METHOD OF SHIPMENT: FEDERAL EXPRESS	ORIGINAL
SHIPPED TO: TestAmerica Denver	OFFSITE PROPERTY NO.: 8140		BILL OF LADING/AIR BILL NO.: 7795 5759 9987		

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
HOLDING TIME				14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER				aG	G	G
NO. OF CONTAINER(S)				1	1	1
VOLUME				250mL	250mL	250mL
SAMPLE ANALYSIS				SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLP9	SOIL	JUL 0 5 2017	0905	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Frank Hall /CHPRC	DATE/TIME: JUL 0 5 2017 1015	RECEIVED BY/STORED IN: Janelle Zunker CHPRC	DATE/TIME: JUL 0 5 2017 1015
RELINQUISHED BY/REMOVED FROM: Janelle Zunker CHPRC	DATE/TIME: JUL 0 5 2017 1410	RECEIVED BY/STORED IN: FEDEX	DATE/TIME:
RELINQUISHED BY/REMOVED FROM: FedEx	DATE/TIME:	RECEIVED BY/STORED IN: Josh Trice	DATE/TIME: 7/6/17 0850
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

PRINTED ON 6/22/2017 **FSR ID = FSR47289** **TRVL NUM = TRVL-17-173** A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-013	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-6	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-577	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9987		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-049-011	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE C01	DATA TURNAROUND
Frank Hall /CHPRC DN0171	SUMNER, LC	376-3922	SUMNER, LC	AIR QUALITY ☐	12 Days / 12 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
100-K-103, U1_Sample Area 1 EX1-5	100-K-103 & 100-K-79:9 Verification Sampling - Soil		F17-049		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
GWS-577	HNF-N-587-38	0-6"	304306	FEDERAL EXPRESS	**ORIGINAL**
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica Denver	8140		7795 5759 9987		

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
HOLDING TIME	14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER	aG	G	G
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	250mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLP7	SOIL	JUL 0 5 2017	0855	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Frank Hall /CHPRC	JUL 0 5 2017 1005	Janelle Zunker CHPRC	JUL 0 5 2017 1015
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Janelle Zunker CHPRC	JUL 0 5 2017 1400	FEDEX	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Fedex		Josh True	7/6/17 0850
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

PRINTED ON 6/22/2017 **FSR ID = FSR47288** **TRVL NUM = TRVL-17-173** A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-011	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-5	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-577	FIELD LOGBOOK NO. HNF-N-557-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9987		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-019	PAGE 1 OF 2
COLLECTOR: Frank Hall /CHPRC DN0171	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	PRICE CODE: C01	DATA TURNAROUND
SAMPLING LOCATION: 100-K-103, U1_Sample Area 1 EX1-8	PROJECT DESIGNATION: 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO.: F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO.: GWS-577	FIELD LOGBOOK NO.: HNF-N-507.38	ACTUAL SAMPLE DEPTH: 0-6"	COA: 304306	METHOD OF SHIPMENT: FEDERAL EXPRESS	ORIGINAL
SHIPPED TO: TestAmerica Denver	OFFSITE PROPERTY NO.: 8140		BILL OF LADING/AIR BILL NO.: 7795 5759 9987		

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
HOLDING TIME	14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER	aG	G	G
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	250mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLR5	SOIL	JUL 05 2017	0841	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: Frank Hall /CHPRC	DATE/TIME: JUL 05 2017 1015	RECEIVED BY/STORED IN: Janelle Zunker CHPRC	DATE/TIME: JUL 05 2017 1015	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: Janelle Zunker CHPRC	DATE/TIME: JUL 05 2017 1400	RECEIVED BY/STORED IN: FEDEX	DATE/TIME:	
RELINQUISHED BY/REMOVED FROM: Fedex	DATE/TIME:	RECEIVED BY/STORED IN: Josh True	DATE/TIME: 7/6/17 0850	
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:	
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:	
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:	

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

PRINTED ON 6/22/2017 FSR ID = FSR47291 TRVL NUM = TRVL-17-173 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-019	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-8	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS 577	FIELD LOGBOOK NO. HNF-N- 507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9987		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-049-027	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE C01	DATA TURNAROUND
Frank Hall /CHPRC DN0171	SUMNER, LC	376-3922	SUMNER, LC	AIR QUALITY ☐	12 Days / 12 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
100-K-103, U1_Sample Area 1 EX1-12	100-K-103 & 100-K-79:9 Verification Sampling - Soil		F17-049		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
GWS-577	~~HNF-N-~~ 507.38	0-6"	304306	FEDERAL EXPRESS	**ORIGINAL**
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica Denver	8140		7795 5759 9987		

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
HOLDING TIME	14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER	aG	G	G
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	250mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLT3	SOIL	JUL 0 5 2017	0850	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Frank Hall /CHPRC	DATE/TIME JUL 0 5 2017 1015	RECEIVED BY/STORED IN Janelle Zunker CHPRC	DATE/TIME JUL 0 5 2017 1015
RELINQUISHED BY/REMOVED FROM Janelle Zunker CHPRC	DATE/TIME JUL 0 5 2017 1410	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FedEx	DATE/TIME	RECEIVED BY/STORED IN Josh True	DATE/TIME 7/6/17 0856
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

PRINTED ON 6/22/2017 **FSR ID = FSR47294** **TRVL NUM = TRVL-17-173** A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-027	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01 AIR QUALITY ☐	DATA TURNAROUND 12 Days / 12 Days
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-12	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049		
ICE CHEST NO. GWS-577	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9987		

SPECIAL INSTRUCTIONS

TRVL-17-173

(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};

(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};

(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-049-023	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE C01	DATA TURNAROUND
Frank Hall /CHPRC DN0171	SUMNER, LC	376-3922	SUMNER, LC	AIR QUALITY ☐	12 Days / 12 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
100-K-103, U1_Sample Area 1 EX1-10	100-K-103 & 100-K-79:9 Verification Sampling - Soil		F17-049		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
GWS-577	HNF-N-507-38	0-6"	304306	FEDERAL EXPRESS	**ORIGINAL**
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica Denver	8140		7795 5759 9987		

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
HOLDING TIME	14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER	aG	G	G
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	250mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLR9	SOIL	JUL 05 2017	0858	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Frank Hall /CHPRC	JUL 05 2017 1015	Janelle Zunker CHPRC	JUL 05 2017 1015	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
Janelle Zunker CHPRC	JUL 05 2017 1400	FEDEX		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
FedEx		Josh True	7/6/17 0650	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

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

PRINTED ON 6/22/2017 **FSR ID = FSR47258** **TRVL NUM = TRVL-17-173** A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-023	PAGE 2 OF 2
COLLECTOR Frank Hall CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-10	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-577	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9987		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-025	PAGE 1 OF 2
COLLECTOR: Frank Hall /CHPRC DN0171	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	PRICE CODE: C01	DATA TURNAROUND: 12 Days / 12 Days
SAMPLING LOCATION: 100-K-103, U1_Sample Area 1 EX1-11	PROJECT DESIGNATION: 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO.: F17-049	AIR QUALITY: ☐	
ICE CHEST NO.: GW5-577	FIELD LOGBOOK NO.: ~~HNF-N-~~ 507-38	ACTUAL SAMPLE DEPTH: 0-6"	COA: 304306	METHOD OF SHIPMENT: FEDERAL EXPRESS	ORIGINAL
SHIPPED TO: TestAmerica Denver	OFFSITE PROPERTY NO.: 8140		BILL OF LADING/AIR BILL NO.: 7795 5759 9987		

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
HOLDING TIME	14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER	aG	G	G
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	250mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLT1	SOIL	JUL 0 5 2017	0830	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: Frank Hall /CHPRC	DATE/TIME: JUL 0 5 2017 1015	RECEIVED BY/STORED IN: Janelle Zunker CHPRC	DATE/TIME: JUL 0 5 2017 1015	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: Janelle Zunker CHPRC	DATE/TIME: JUL 0 5 2017 1400	RECEIVED BY/STORED IN: FEDEX	DATE/TIME:	
RELINQUISHED BY/REMOVED FROM: FedEx	DATE/TIME:	RECEIVED BY/STORED IN: Josh True	DATE/TIME: 7/6/17 0830	
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:	
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:	
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:	
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:	

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

PRINTED ON 6/22/2017 **FSR ID = FSR47293** **TRVL NUM = TRVL-17-173** A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-025	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01 AIR QUALITY ☐	DATA TURNAROUND 12 Days / 12 Days
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-11	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049		
ICE CHEST NO. GWS-577	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9987		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-007	PAGE 1 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-3 - DUP	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-577	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7799 5759 9987		

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
HOLDING TIME			14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER			aG	G	G
NO. OF CONTAINER(S)			1	1	1
VOLUME			250mL	250mL	250mL
SAMPLE ANALYSIS			SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLP3	SOIL	JUL 0 5 2017	0805	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Frank Hall /CHPRC	DATE/TIME JUL 0 5 2017 1015	RECEIVED BY/STORED IN Janelle Zunker CHPRC	DATE/TIME JUL 0 5 2017 1015
RELINQUISHED BY/REMOVED FROM Janelle Zunker CHPRC	DATE/TIME JUL 0 5 2017 1410	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FedEx	DATE/TIME	RECEIVED BY/STORED IN Josh Tree	DATE/TIME 7/6/17 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

PRINTED ON 6/22/2017 **FSR ID = FSR47254** **TRVL NUM = TRVL-17-173** A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-007	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-3 - DUP	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GW5-577	FIELD LOGBOOK NO. HNF-N-587-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9987		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-017	PAGE 1 OF 2
COLLECTOR Kevin Patterson D N0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01 AIR QUALITY ☐	DATA TURNAROUND 12 Days / 12 Days
SAMPLING LOCATION 100-K,-103, U1_Sample Area 1 EX1-7 - FTB	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049		
ICE CHEST NO. GW5-577	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH N/A	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9987		

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
HOLDING TIME				14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER				aG	G	G
NO. OF CONTAINER(S)				1	1	1
VOLUME				250mL	250mL	250mL
SAMPLE ANALYSIS				SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLR3	SOIL	JUL 0 5 2017	0230	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Kevin Patterson	DATE/TIME JUL 0 5 2017 1015	RECEIVED BY/STORED IN Janelle Zunker CHPRC	DATE/TIME JUL 0 5 2017 1015	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Janelle Zunker CHPRC	DATE/TIME JUL 0 5 2017 1040	RECEIVED BY/STORED IN FEDEX	DATE/TIME	
RELINQUISHED BY/REMOVED FROM FedEx	DATE/TIME	RECEIVED BY/STORED IN Josh True	DATE/TIME 7/6/17 0830	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

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

PRINTED ON 6/22/2017 FSR ID = FSR47257 TRVL NUM = TRVL-17-173 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-017	PAGE 2 OF 2
COLLECTOR Kevin Patterson DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01 AIR QUALITY ☐	DATA TURNAROUND 12 Days / 12 Days
SAMPLING LOCATION 100-K,-103, U1_Sample Area 1 EX1-7 - FTB	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049		
ICE CHEST NO. GWS-577	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH N/a	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9987		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-015	PAGE 1 OF 2
COLLECTOR: Frank Hall /CHPRC DN0171	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	PRICE CODE: C01	DATA TURNAROUND
SAMPLING LOCATION: 100-K-103, U1_Sample Area 1 EX1-7	PROJECT DESIGNATION: 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO.: F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO.: GWS-570	FIELD LOGBOOK NO.: HNF-N-507-38	ACTUAL SAMPLE DEPTH: 0-6"	COA: 304306	METHOD OF SHIPMENT: FEDERAL EXPRESS	ORIGINAL
SHIPPED TO: TestAmerica Denver	OFFSITE PROPERTY NO.: 8140		BILL OF LADING/AIR BILL NO.: 7795 5759 9900		

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
		HOLDING TIME		14/40 Days	14/40 Days	28 Days
		TYPE OF CONTAINER		aG	G	G
		NO. OF CONTAINER(S)		1	1	1
		VOLUME		250mL	250mL	250mL
		SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLR1	SOIL	JUL 05 2017	0748	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Frank Hall /CHPRC	DATE/TIME: JUL 05 2017 1015	RECEIVED BY/STORED IN: Lesly Wall /CHPRC	DATE/TIME: JUL 05 2017 1015
RELINQUISHED BY/REMOVED FROM: Lesly Wall /CHPRC	DATE/TIME: JUL 05 2017 1400	RECEIVED BY/STORED IN: FEDEX	DATE/TIME:
RELINQUISHED BY/REMOVED FROM: FedEx	DATE/TIME:	RECEIVED BY/STORED IN: Josh True	DATE/TIME: 7/6/17 0850
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

PRINTED ON 6/22/2017 FSR ID = FSR47290 TRVL NUM = TRVL-17-173 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-015	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-7	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-570	FIELD LOGBOOK NO. KF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9900		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-005	PAGE 1 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-3	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-570	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9900		

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
HOLDING TIME				14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER				aG	G	G
NO. OF CONTAINER(S)				1	1	1
VOLUME				250mL	250mL	250mL
SAMPLE ANALYSIS				SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLP1	SOIL	JUL 05 2017	0865	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Frank Hall /CHPRC	DATE/TIME JUL 05 2017 1015	RECEIVED BY/STORED IN Lesly Wall /CHPRC	DATE/TIME JUL 05 2017 1015
RELINQUISHED BY/REMOVED FROM Lesly Wall /CHPRC	DATE/TIME JUL 05 2017 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FedEx	DATE/TIME	RECEIVED BY/STORED IN Josh True	DATE/TIME 7/6/17 0850
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

PRINTED ON 6/22/2017 FSR ID = FSR47253 TRVL NUM = TRVL-17-173 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-005	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-3	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-570	FIELD LOGBOOK NO. HNF-N-587 38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 779555759 9900		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-003	PAGE 1 OF 2
COLLECTOR: Frank Hall /CHPRC DN0171	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	PRICE CODE: C01	DATA TURNAROUND
SAMPLING LOCATION: 100-K-103, U1_Sample Area 1 EX1-2	PROJECT DESIGNATION: 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO.: F17-049	AIR QUALITY: ☐	12 Days / 12 Days
ICE CHEST NO.: GW5-570	FIELD LOGBOOK NO.: HNF-N-507-38	ACTUAL SAMPLE DEPTH: 0-6"	COA: 304306	METHOD OF SHIPMENT: FEDERAL EXPRESS	ORIGINAL
SHIPPED TO: TestAmerica Denver	OFFSITE PROPERTY NO.: 8140		BILL OF LADING/AIR BILL NO.: 7795 5759 9900		

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
HOLDING TIME	14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER	aG	G	G
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	250mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLN9	SOIL	JUL 0 5 2017	0752	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Frank Hall /CHPRC	DATE/TIME: JUL 0 5 2017 1015	RECEIVED BY/STORED IN: Lesly Wall /CHPRC	DATE/TIME: JUL 0 5 2017 1015
RELINQUISHED BY/REMOVED FROM: Lesly Wall /CHPRC	DATE/TIME: JUL 0 5 2017 1400	RECEIVED BY/STORED IN: FEDEX	DATE/TIME:
RELINQUISHED BY/REMOVED FROM: FedEx	DATE/TIME:	RECEIVED BY/STORED IN: Josh True	DATE/TIME: 7/6/17 08:50
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

PRINTED ON 6/22/2017 FSR ID = FSR47252 TRVL NUM = TRVL-17-173 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-003	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-2	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-570	FIELD LOGBOOK NO. HNF-N-567-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9900		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-001	PAGE 1 OF 2
COLLECTOR: Frank Hall /CHPRC DN0171	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	PRICE CODE: C01	DATA TURNAROUND
SAMPLING LOCATION: 100-K-103, U1_Sample Area 1 EX1-1	PROJECT DESIGNATION: 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO.: F17-049	AIR QUALITY: ☐	12 Days / 12 Days
ICE CHEST NO.: GWS-570	FIELD LOGBOOK NO.: HNF-N-507-38	ACTUAL SAMPLE DEPTH: 0-6"	COA: 304306	METHOD OF SHIPMENT: FEDERAL EXPRESS	ORIGINAL
SHIPPED TO: TestAmerica Denver	OFFSITE PROPERTY NO.: 8140		BILL OF LADING/AIR BILL NO.: 7795 5759 9900		

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
HOLDING TIME	14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER	aG	G	G
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	250mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLN7	SOIL	JUL 0 5 2017	0742	✓	✓	✓

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Frank Hall /CHPRC	JUL 0 5 2017 1015	RECEIVED BY/STORED IN: Lesly Wall /CHPRC	JUL 0 5 2017 1015
RELINQUISHED BY/REMOVED FROM: Lesly Wall /CHPRC	JUL 0 5 2017 1400	RECEIVED BY/STORED IN: FEDEX	
RELINQUISHED BY/REMOVED FROM: FedEx		RECEIVED BY/STORED IN: Josh Trull	7/6/17 0850
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

PRINTED ON 6/22/2017 FSR ID = FSR47251 TRVL NUM = TRVL-17-173 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-001	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01 AIR QUALITY ☐	DATA TURNAROUND 12 Days / 12 Days
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-1	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049		
ICE CHEST NO. GWS-570	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9900		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-009	PAGE 1 OF 2
COLLECTOR Frank Hall /CHPRC DN0171	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-4	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GW5-570	FIELD LOGBOOK NO. HNF-N-507.38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140			BILL OF LADING/AIR BILL NO. 7795 5759 9900	

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
HOLDING TIME				14/40 Days	14/40 Days	28 Days
TYPE OF CONTAINER				aG	G	G
NO. OF CONTAINER(S)				1	1	1
VOLUME				250mL	250mL	250mL
SAMPLE ANALYSIS				SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3BLP5	SOIL	JUL 0 5 2017	0833	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Frank Hall /CHPRC	DATE/TIME JUL 0 5 2017 1015	RECEIVED BY/STORED IN Lesly Wall /CHPRC	DATE/TIME JUL 0 5 2017 1015
RELINQUISHED BY/REMOVED FROM Lesly Wall /CHPRC	DATE/TIME JUL 0 5 2017 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FedEx	DATE/TIME	RECEIVED BY/STORED IN Josh True	DATE/TIME 7/6/17 0830
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

PRINTED ON 6/22/2017 FSR ID = FSR47255 TRVL NUM = TRVL-17-173 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-049-009	PAGE 2 OF 2
COLLECTOR Frank Hall /CHPRC DN017	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE C01	DATA TURNAROUND
SAMPLING LOCATION 100-K-103, U1_Sample Area 1 EX1-4	PROJECT DESIGNATION 100-K-103 & 100-K-79:9 Verification Sampling - Soil		SAF NO. F17-049	AIR QUALITY ☐	12 Days / 12 Days
ICE CHEST NO. GWS-570	FIELD LOGBOOK NO. HNF-N-507-38	ACTUAL SAMPLE DEPTH 0-6"	COA 304306	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Denver	OFFSITE PROPERTY NO. 8140		BILL OF LADING/AIR BILL NO. 7795 5759 9900		

SPECIAL INSTRUCTIONS

TRVL-17-173
(1) 8270_SVOA_GCMS_SIM: COMMON {Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene}; 8081_PEST_GC: COMMON {4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Alpha-BHC, beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC), Delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Gamma-BHC (Lindane), Heptachlor epoxide, Methoxychlor, Toxaphene};
(2) WTPH_DIESEL: COMMON {Total petroleum hydrocarbons - diesel range}; WTPH_KEROSENE: COMMON {Total petroleum hydrocarbons - kerosene range};
(3) 7471_MERCURY_CV: COMMON (SOLIDS) {Mercury}; 6010_METALS_ICP: COMMON {Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Beryllium, Boron, Lead, Molybdenum, Selenium};

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779557599987

Ship date:
Wed 7/05/2017

Actual delivery:
Thu 7/06/2017 8:51 am

Richland, WA US

Delivered
Signed for by: J.TRUE

ARVADA, CO US

2 Piece shipment

Travel History

Date/Time	Activity	Location
- 7/06/2017 - Thursday		
8:51 am	Delivered	ARVADA, CO
8:34 am	On FedEx vehicle for delivery	ARVADA, CO
7:56 am	At local FedEx facility	ARVADA, CO
5:30 am	At destination sort facility	DENVER, CO
4:30 am	Departed FedEx location	MEMPHIS, TN
12:33 am	Arrived at FedEx location	MEMPHIS, TN
- 7/05/2017 - Wednesday		
4:56 pm	Left FedEx origin facility	PASCO, WA
12:54 pm	Shipment information sent to FedEx	
11:04 am	Picked up	PASCO, WA

Shipment Facts

Tracking number	779557599987	**Service**	FedEx Priority Overnight
Master tracking number	779557599987	**Weight**	79 lbs / 35.83 kgs
Signature services	Direct signature required	**Delivered To**	Shipping/Receiving
Total pieces	2	**Total shipment weight**	149 lbs / 67.59 kgs
Terms	Third Party	**Shipper reference**	8140
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Direct Signature Required
Standard transit	7/06/2017 by 10:30 am		

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7795 5759 9900

Ship date:		Actual delivery:
Wed 7/05/2017		**Thu 7/06/2017 8:51 am**
Richland, WA US	**Delivered** *Signed for by: J.TRUE*	ARVADA, CO US

2 Piece shipment

Travel History

Date/Time	Activity	Location
- 7/06/2017 - Thursday		
8:51 am	Delivered	ARVADA, CO
8:34 am	On FedEx vehicle for delivery	ARVADA, CO
8:03 am	At local FedEx facility	ARVADA, CO
5:30 am	At destination sort facility	DENVER, CO
4:30 am	Departed FedEx location	MEMPHIS, TN
12:33 am	Arrived at FedEx location	MEMPHIS, TN
- 7/05/2017 - Wednesday		
4:56 pm	Left FedEx origin facility	PASCO, WA
12:53 pm	Shipment information sent to FedEx	
11:04 am	Picked up	PASCO, WA

Shipment Facts

Tracking number	7795 5759 9900	**Service**	FedEx Priority Overnight
Master tracking number	779557599987	**Weight**	70 lbs / 31.75 kgs
Signature services	Direct signature required	**Delivered To**	Shipping/Receiving
Total pieces	2	**Total shipment weight**	70 lbs / 31.75 kgs
Terms	Third Party	**Shipper reference**	8140
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Direct Signature Required
Standard transit	7/06/2017 by 10:30 am		

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Definitions/Glossary

Qualifiers

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
B	Analyte was found in the associated method blank as well as in the sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Analyzed for but not detected.
X	See case narrative notes for explanation of the 'X' flag

Metals

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

Glossary

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

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL DEN
8081B	Organochlorine Pesticides (GC)	SW846	TAL DEN
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL DEN
6010C	Metals (ICP)	SW846	TAL DEN
7471B	Mercury (CVAA)	SW846	TAL DEN
D 2216	Percent Moisture	ASTM	TAL DEN

Protocol References:

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-98955-1	B3BLR7	Soil	07/05/17 08:38	07/06/17 08:50
280-98955-2	B3BLP9	Soil	07/05/17 09:05	07/06/17 08:50
280-98955-3	B3BLP7	Soil	07/05/17 08:55	07/06/17 08:50
280-98955-4	B3BLR5	Soil	07/05/17 08:41	07/06/17 08:50
280-98955-5	B3BLT3	Soil	07/05/17 08:50	07/06/17 08:50
280-98955-6	B3BLR9	Soil	07/05/17 08:58	07/06/17 08:50
280-98955-7	B3BLT1	Soil	07/05/17 08:30	07/06/17 08:50
280-98955-8	B3BLP3	Soil	07/05/17 08:05	07/06/17 08:50
280-98955-9	B3BLR3	Soil	07/05/17 07:30	07/06/17 08:50
280-98955-10	B3BLR1	Soil	07/05/17 07:48	07/06/17 08:50
280-98955-11	B3BLP1	Soil	07/05/17 08:05	07/06/17 08:50
280-98955-12	B3BLN9	Soil	07/05/17 07:56	07/06/17 08:50
280-98955-13	B3BLN7	Soil	07/05/17 07:42	07/06/17 08:50
280-98955-14	B3BLP5	Soil	07/05/17 08:33	07/06/17 08:50

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLR7 — **Lab Sample ID: 280-98955-1**
Date Collected: 07/05/17 08:38 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	U	4.9	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Acenaphthylene	0.17	U	4.9	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Anthracene	**1.0**	**J**	4.9	0.71	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Benzo[a]anthracene	**12**	**T**	4.9	0.88	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Benzo[a]pyrene	**11**		4.9	0.73	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Benzo[b]fluoranthene	**19**		4.9	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Benzo[g,h,i]perylene	**10**		4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Benzo[k]fluoranthene	**8.1**		4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Chrysene	**21**	**T**	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Dibenz[a,h]anthracene	**3.5**	**J**	4.9	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Fluoranthene	**20**	**T**	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Fluorene	0.46	U	4.9	0.46	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Indeno[1,2,3-cd]pyrene	**11**		4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Naphthalene	0.32	U	4.9	0.32	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Phenanthrene	**8.0**	**T**	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1
Pyrene	**21**	**T**	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*39 - 120*	*07/10/17 12:16*	*07/13/17 14:54*	*1*
Nitrobenzene-d5	*49*		*42 - 120*	*07/10/17 12:16*	*07/13/17 14:54*	*1*
Terphenyl-d14	*73*		*35 - 124*	*07/10/17 12:16*	*07/13/17 14:54*	*1*

Client Sample ID: B3BLP9 — **Lab Sample ID: 280-98955-2**
Date Collected: 07/05/17 09:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	U	4.9	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Acenaphthylene	0.17	U	4.9	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Anthracene	0.71	U	4.9	0.71	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Benzo[a]anthracene	0.88	U T	4.9	0.88	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Benzo[a]pyrene	0.73	U	4.9	0.73	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Benzo[b]fluoranthene	1.2	U	4.9	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Benzo[g,h,i]perylene	**1.5**	**J**	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Benzo[k]fluoranthene	0.98	U	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Chrysene	0.98	U T	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Dibenz[a,h]anthracene	1.3	U	4.9	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Fluoranthene	0.98	U T	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Fluorene	0.46	U	4.9	0.46	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Indeno[1,2,3-cd]pyrene	1.1	U	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Naphthalene	0.32	U	4.9	0.32	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Phenanthrene	1.1	U T	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1
Pyrene	1.1	U T	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*39 - 120*	*07/10/17 12:16*	*07/13/17 16:16*	*1*
Nitrobenzene-d5	*55*		*42 - 120*	*07/10/17 12:16*	*07/13/17 16:16*	*1*
Terphenyl-d14	*62*		*35 - 124*	*07/10/17 12:16*	*07/13/17 16:16*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLP7
Date Collected: 07/05/17 08:55
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-3
Matrix: Soil
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	U	4.9	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Acenaphthylene	0.17	U	4.9	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Anthracene	0.71	U	4.9	0.71	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Benzo[a]anthracene	0.89	U T	4.9	0.89	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Benzo[a]pyrene	0.73	U	4.9	0.73	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Benzo[b]fluoranthene	1.2	U	4.9	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Benzo[g,h,i]perylene	**1.2**	**J**	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Benzo[k]fluoranthene	0.98	U	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Chrysene	0.98	U T	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Dibenz[a,h]anthracene	1.3	U	4.9	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Fluoranthene	0.98	U T	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Fluorene	0.46	U	4.9	0.46	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Indeno[1,2,3-cd]pyrene	1.1	U	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Naphthalene	0.32	U	4.9	0.32	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Phenanthrene	1.1	U T	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1
Pyrene	1.1	U T	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*39 - 120*	*07/10/17 12:16*	*07/13/17 16:43*	*1*
Nitrobenzene-d5	*52*		*42 - 120*	*07/10/17 12:16*	*07/13/17 16:43*	*1*
Terphenyl-d14	*54*		*35 - 124*	*07/10/17 12:16*	*07/13/17 16:43*	*1*

Client Sample ID: B3BLR5
Date Collected: 07/05/17 08:41
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-4
Matrix: Soil
Percent Solids: 92.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.17	U	5.3	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Acenaphthylene	0.18	U	5.3	0.18	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Anthracene	0.76	U	5.3	0.76	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Benzo[a]anthracene	**1.2**	**J T**	5.3	0.96	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Benzo[a]pyrene	0.79	U	5.3	0.79	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Benzo[b]fluoranthene	**2.8**	**J**	5.3	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Benzo[g,h,i]perylene	**2.0**	**J**	5.3	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Benzo[k]fluoranthene	**1.2**	**J**	5.3	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Chrysene	**1.8**	**J T**	5.3	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Dibenz[a,h]anthracene	1.4	U	5.3	1.4	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Fluoranthene	1.1	U T	5.3	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Fluorene	0.50	U	5.3	0.50	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Indeno[1,2,3-cd]pyrene	**2.3**	**J**	5.3	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Naphthalene	0.35	U	5.3	0.35	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Phenanthrene	1.2	U T	5.3	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1
Pyrene	1.2	U T	5.3	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*39 - 120*	*07/10/17 12:16*	*07/13/17 17:11*	*1*
Nitrobenzene-d5	*54*		*42 - 120*	*07/10/17 12:16*	*07/13/17 17:11*	*1*
Terphenyl-d14	*64*		*35 - 124*	*07/10/17 12:16*	*07/13/17 17:11*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLT3 — **Lab Sample ID: 280-98955-5**
Date Collected: 07/05/17 08:50 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	U	4.9	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Acenaphthylene	0.17	U	4.9	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Anthracene	0.70	U	4.9	0.70	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Benzo[a]anthracene	0.87	U T	4.9	0.87	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Benzo[a]pyrene	0.72	U	4.9	0.72	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Benzo[b]fluoranthene	1.2	U	4.9	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Benzo[g,h,i]perylene	1.1	U	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Benzo[k]fluoranthene	0.97	U	4.9	0.97	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Chrysene	0.97	U T	4.9	0.97	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Dibenz[a,h]anthracene	1.3	U	4.9	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Fluoranthene	0.97	U T	4.9	0.97	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Fluorene	0.46	U	4.9	0.46	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Indeno[1,2,3-cd]pyrene	1.1	U	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Naphthalene	0.32	U	4.9	0.32	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Phenanthrene	1.1	U T	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1
Pyrene	1.1	U T	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*39 - 120*	*07/10/17 12:16*	*07/13/17 17:38*	*1*
Nitrobenzene-d5	*50*		*42 - 120*	*07/10/17 12:16*	*07/13/17 17:38*	*1*
Terphenyl-d14	*63*		*35 - 124*	*07/10/17 12:16*	*07/13/17 17:38*	*1*

Client Sample ID: B3BLR9 — **Lab Sample ID: 280-98955-6**
Date Collected: 07/05/17 08:58 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	U	4.9	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Acenaphthylene	0.17	U	4.9	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Anthracene	0.70	U	4.9	0.70	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Benzo[a]anthracene	**4.1**	**J T**	4.9	0.88	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Benzo[a]pyrene	**5.5**		4.9	0.72	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Benzo[b]fluoranthene	**11**		4.9	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Benzo[g,h,i]perylene	**7.5**		4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Benzo[k]fluoranthene	**4.8**	**J**	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Chrysene	**6.5**	**T**	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Dibenz[a,h]anthracene	**2.3**	**J**	4.9	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Fluoranthene	0.98	U T	4.9	0.98	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Fluorene	0.46	U	4.9	0.46	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Indeno[1,2,3-cd]pyrene	**8.4**		4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Naphthalene	0.32	U	4.9	0.32	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Phenanthrene	1.1	U T	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1
Pyrene	1.1	U T	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*39 - 120*	*07/10/17 12:16*	*07/13/17 18:05*	*1*
Nitrobenzene-d5	*60*		*42 - 120*	*07/10/17 12:16*	*07/13/17 18:05*	*1*
Terphenyl-d14	*90*		*35 - 124*	*07/10/17 12:16*	*07/13/17 18:05*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLT1 — **Lab Sample ID: 280-98955-7**
Date Collected: 07/05/17 08:30 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	U	4.9	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Acenaphthylene	0.17	U	4.9	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Anthracene	0.70	U	4.9	0.70	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Benzo[a]anthracene	**8.5**	**T**	4.9	0.87	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Benzo[a]pyrene	**9.5**		4.9	0.72	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Benzo[b]fluoranthene	**14**		4.9	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Benzo[g,h,i]perylene	**5.3**		4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Benzo[k]fluoranthene	**5.5**		4.9	0.97	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Chrysene	**16**	**T**	4.9	0.97	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Dibenz[a,h]anthracene	1.3	U	4.9	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Fluoranthene	**8.8**	**T**	4.9	0.97	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Fluorene	0.46	U	4.9	0.46	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Indeno[1,2,3-cd]pyrene	**6.0**		4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Naphthalene	0.32	U	4.9	0.32	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Phenanthrene	1.1	U T	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1
Pyrene	**13**	**T**	4.9	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*39 - 120*	*07/10/17 12:16*	*07/13/17 18:33*	*1*
Nitrobenzene-d5	*48*		*42 - 120*	*07/10/17 12:16*	*07/13/17 18:33*	*1*
Terphenyl-d14	*56*		*35 - 124*	*07/10/17 12:16*	*07/13/17 18:33*	*1*

Client Sample ID: B3BLP3 — **Lab Sample ID: 280-98955-8**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.15	U	4.8	0.15	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Acenaphthylene	0.16	U	4.8	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Anthracene	0.70	U	4.8	0.70	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Benzo[a]anthracene	**2.1**	**J T**	4.8	0.87	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Benzo[a]pyrene	**1.4**	**J**	4.8	0.72	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Benzo[b]fluoranthene	1.2	U	4.8	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Benzo[g,h,i]perylene	1.1	U	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Benzo[k]fluoranthene	0.97	U	4.8	0.97	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Chrysene	**3.4**	**J T**	4.8	0.97	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Dibenz[a,h]anthracene	1.3	U	4.8	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Fluoranthene	**7.2**	**T**	4.8	0.97	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Fluorene	0.45	U	4.8	0.45	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Indeno[1,2,3-cd]pyrene	1.1	U	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Naphthalene	0.32	U	4.8	0.32	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Phenanthrene	**4.1**	**J T**	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1
Pyrene	**6.9**	**T**	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*39 - 120*	*07/10/17 12:16*	*07/13/17 19:00*	*1*
Nitrobenzene-d5	*53*		*42 - 120*	*07/10/17 12:16*	*07/13/17 19:00*	*1*
Terphenyl-d14	*71*		*35 - 124*	*07/10/17 12:16*	*07/13/17 19:00*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLR3 — **Lab Sample ID: 280-98955-9**
Date Collected: 07/05/17 07:30 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.15	U	4.7	0.15	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Acenaphthylene	0.16	U	4.7	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Anthracene	0.68	U	4.7	0.68	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Benzo[a]anthracene	0.85	U T	4.7	0.85	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Benzo[a]pyrene	0.70	U	4.7	0.70	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Benzo[b]fluoranthene	1.1	U	4.7	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Benzo[g,h,i]perylene	1.0	U	4.7	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Benzo[k]fluoranthene	0.94	U	4.7	0.94	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Chrysene	0.94	U T	4.7	0.94	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Dibenz[a,h]anthracene	1.2	U	4.7	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Fluoranthene	0.94	U T	4.7	0.94	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Fluorene	0.44	U	4.7	0.44	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Indeno[1,2,3-cd]pyrene	1.0	U	4.7	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Naphthalene	0.31	U	4.7	0.31	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Phenanthrene	1.0	U T	4.7	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1
Pyrene	1.0	U T	4.7	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*39 - 120*	*07/10/17 12:16*	*07/13/17 19:27*	*1*
Nitrobenzene-d5	*70*		*42 - 120*	*07/10/17 12:16*	*07/13/17 19:27*	*1*
Terphenyl-d14	*106*		*35 - 124*	*07/10/17 12:16*	*07/13/17 19:27*	*1*

Client Sample ID: B3BLR1 — **Lab Sample ID: 280-98955-10**
Date Collected: 07/05/17 07:48 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	U	5.0	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Acenaphthylene	0.17	U	5.0	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Anthracene	0.73	U	5.0	0.73	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Benzo[a]anthracene	**1.9**	**J T**	5.0	0.91	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Benzo[a]pyrene	**2.3**	**J**	5.0	0.75	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Benzo[b]fluoranthene	**5.1**		5.0	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Benzo[g,h,i]perylene	**4.6**	**J**	5.0	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Benzo[k]fluoranthene	**1.8**	**J**	5.0	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Chrysene	**2.6**	**J T**	5.0	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Dibenz[a,h]anthracene	**1.4**	**J**	5.0	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Fluoranthene	1.0	U T	5.0	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Fluorene	0.47	U	5.0	0.47	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Indeno[1,2,3-cd]pyrene	**5.1**		5.0	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Naphthalene	0.33	U	5.0	0.33	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Phenanthrene	1.1	U T	5.0	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1
Pyrene	1.1	U T	5.0	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*39 - 120*	*07/10/17 12:16*	*07/13/17 19:55*	*1*
Nitrobenzene-d5	*50*		*42 - 120*	*07/10/17 12:16*	*07/13/17 19:55*	*1*
Terphenyl-d14	*66*		*35 - 124*	*07/10/17 12:16*	*07/13/17 19:55*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLP1 — **Lab Sample ID: 280-98955-11**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.15	U	4.8	0.15	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Acenaphthylene	0.16	U	4.8	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Anthracene	0.69	U	4.8	0.69	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Benzo[a]anthracene	**3.7**	**J T**	4.8	0.87	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Benzo[a]pyrene	**3.8**	**J**	4.8	0.71	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Benzo[b]fluoranthene	**5.7**		4.8	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Benzo[g,h,i]perylene	**1.8**	**J**	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Benzo[k]fluoranthene	**2.0**	**J**	4.8	0.96	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Chrysene	**7.0**	**T**	4.8	0.96	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Dibenz[a,h]anthracene	1.2	U	4.8	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Fluoranthene	**10**	**T**	4.8	0.96	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Fluorene	0.45	U	4.8	0.45	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Indeno[1,2,3-cd]pyrene	**2.3**	**J**	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Naphthalene	0.31	U	4.8	0.31	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Phenanthrene	**5.2**	**T**	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1
Pyrene	**9.2**	**T**	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*39 - 120*	*07/10/17 12:16*	*07/13/17 20:22*	*1*
Nitrobenzene-d5	*49*		*42 - 120*	*07/10/17 12:16*	*07/13/17 20:22*	*1*
Terphenyl-d14	*62*		*35 - 124*	*07/10/17 12:16*	*07/13/17 20:22*	*1*

Client Sample ID: B3BLN9 — **Lab Sample ID: 280-98955-12**
Date Collected: 07/05/17 07:56 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	U	5.1	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Acenaphthylene	0.17	U	5.1	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Anthracene	0.73	U	5.1	0.73	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Benzo[a]anthracene	**2.5**	**J T**	5.1	0.92	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Benzo[a]pyrene	**2.2**	**J**	5.1	0.75	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Benzo[b]fluoranthene	**3.9**	**J**	5.1	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Benzo[g,h,i]perylene	**1.2**	**J**	5.1	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Benzo[k]fluoranthene	**1.5**	**J**	5.1	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Chrysene	**3.1**	**J T**	5.1	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Dibenz[a,h]anthracene	1.3	U	5.1	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Fluoranthene	1.0	U T	5.1	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Fluorene	0.48	U	5.1	0.48	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Indeno[1,2,3-cd]pyrene	1.1	U	5.1	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Naphthalene	0.33	U	5.1	0.33	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Phenanthrene	1.1	U T	5.1	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1
Pyrene	1.1	U T	5.1	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*39 - 120*	*07/10/17 12:16*	*07/13/17 20:49*	*1*
Nitrobenzene-d5	*52*		*42 - 120*	*07/10/17 12:16*	*07/13/17 20:49*	*1*
Terphenyl-d14	*61*		*35 - 124*	*07/10/17 12:16*	*07/13/17 20:49*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLN7 — **Lab Sample ID: 280-98955-13**
Date Collected: 07/05/17 07:42 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.15	U	4.8	0.15	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Acenaphthylene	0.16	U	4.8	0.16	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Anthracene	0.69	U	4.8	0.69	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Benzo[a]anthracene	**1.1**	**J T**	4.8	0.86	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Benzo[a]pyrene	0.71	U	4.8	0.71	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Benzo[b]fluoranthene	**1.7**	**J**	4.8	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Benzo[g,h,i]perylene	1.1	U	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Benzo[k]fluoranthene	0.96	U	4.8	0.96	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Chrysene	**1.9**	**J T**	4.8	0.96	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Dibenz[a,h]anthracene	1.2	U	4.8	1.2	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Fluoranthene	0.96	U T	4.8	0.96	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Fluorene	0.45	U	4.8	0.45	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Indeno[1,2,3-cd]pyrene	1.1	U	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Naphthalene	0.31	U	4.8	0.31	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Phenanthrene	1.1	U T	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1
Pyrene	1.1	U T	4.8	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*39 - 120*	*07/10/17 12:16*	*07/13/17 21:16*	*1*
Nitrobenzene-d5	*49*		*42 - 120*	*07/10/17 12:16*	*07/13/17 21:16*	*1*
Terphenyl-d14	*67*		*35 - 124*	*07/10/17 12:16*	*07/13/17 21:16*	*1*

Client Sample ID: B3BLP5 — **Lab Sample ID: 280-98955-14**
Date Collected: 07/05/17 08:33 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.17	U	5.2	0.17	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Acenaphthylene	0.18	U	5.2	0.18	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Anthracene	0.75	U	5.2	0.75	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Benzo[a]anthracene	0.94	U T	5.2	0.94	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Benzo[a]pyrene	0.77	U	5.2	0.77	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Benzo[b]fluoranthene	1.3	U	5.2	1.3	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Benzo[g,h,i]perylene	1.1	U	5.2	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Benzo[k]fluoranthene	1.0	U	5.2	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Chrysene	1.0	U T	5.2	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Dibenz[a,h]anthracene	1.4	U	5.2	1.4	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Fluoranthene	1.0	U T	5.2	1.0	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Fluorene	0.49	U	5.2	0.49	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Indeno[1,2,3-cd]pyrene	1.1	U	5.2	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Naphthalene	0.34	U	5.2	0.34	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Phenanthrene	1.1	U T	5.2	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1
Pyrene	1.1	U T	5.2	1.1	ug/Kg	☼	07/10/17 12:16	07/13/17 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*39 - 120*	*07/10/17 12:16*	*07/13/17 21:44*	*1*
Nitrobenzene-d5	*45*		*42 - 120*	*07/10/17 12:16*	*07/13/17 21:44*	*1*
Terphenyl-d14	*68*		*35 - 124*	*07/10/17 12:16*	*07/13/17 21:44*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: B3BLR7
Date Collected: 07/05/17 08:38
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-1
Matrix: Soil
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.54	U	1.7	0.54	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
4,4'-DDE	0.24	U	1.7	0.24	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
4,4'-DDT	0.59	U	1.7	0.59	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Aldrin	0.25	U	1.7	0.25	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
alpha-BHC	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
beta-BHC	0.66	U	1.7	0.66	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
delta-BHC	0.40	U	1.7	0.40	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Dieldrin	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Endosulfan I	**0.95**	**J**	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Endosulfan II	0.28	U	1.7	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Endosulfan sulfate	0.27	U	1.7	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Endrin	0.30	U	1.7	0.30	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
gamma-BHC (Lindane)	0.46	U	1.7	0.46	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Heptachlor epoxide	0.42	U	1.7	0.42	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Methoxychlor	0.45	U	3.3	0.45	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1
Toxaphene	16	U	67	16	ug/Kg	☼	07/11/17 10:57	07/13/17 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*84*		*63 - 124*	*07/11/17 10:57*	*07/13/17 17:04*	*1*
Tetrachloro-m-xylene	*95*		*59 - 115*	*07/11/17 10:57*	*07/13/17 17:04*	*1*

Client Sample ID: B3BLP9
Date Collected: 07/05/17 09:05
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-2
Matrix: Soil
Percent Solids: 98.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.51	U	1.6	0.51	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
4,4'-DDE	0.22	U	1.6	0.22	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
4,4'-DDT	0.55	U	1.6	0.55	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Aldrin	0.23	U	1.6	0.23	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
alpha-BHC	0.20	U	1.6	0.20	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
beta-BHC	0.62	U	1.6	0.62	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
delta-BHC	0.37	U	1.6	0.37	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Dieldrin	0.20	U	1.6	0.20	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Endosulfan I	0.16	U	1.6	0.16	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Endosulfan II	0.27	U	1.6	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Endosulfan sulfate	0.26	U	1.6	0.26	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Endrin	0.29	U	1.6	0.29	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Endrin aldehyde	0.16	U	1.6	0.16	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
gamma-BHC (Lindane)	0.43	U	1.6	0.43	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Heptachlor epoxide	0.40	U	1.6	0.40	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Methoxychlor	0.42	U	3.1	0.42	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1
Toxaphene	15	U	62	15	ug/Kg	☼	07/11/17 10:57	07/13/17 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*130*	*X*	*63 - 124*	*07/11/17 10:57*	*07/13/17 17:22*	*1*
Tetrachloro-m-xylene	*97*		*59 - 115*	*07/11/17 10:57*	*07/13/17 17:22*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: B3BLP7
Date Collected: 07/05/17 08:55
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-3
Matrix: Soil
Percent Solids: 98.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.55	U	1.7	0.55	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
4,4'-DDE	0.24	U	1.7	0.24	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
4,4'-DDT	0.59	U	1.7	0.59	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Aldrin	0.25	U	1.7	0.25	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
alpha-BHC	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
beta-BHC	0.66	U	1.7	0.66	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
delta-BHC	0.40	U	1.7	0.40	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Dieldrin	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Endosulfan I	0.18	U	1.7	0.18	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Endosulfan II	0.29	U	1.7	0.29	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Endosulfan sulfate	0.28	U	1.7	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Endrin	0.31	U	1.7	0.31	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
gamma-BHC (Lindane)	0.46	U	1.7	0.46	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Heptachlor epoxide	0.43	U	1.7	0.43	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Methoxychlor	0.45	U	3.3	0.45	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1
Toxaphene	16	U	67	16	ug/Kg	☼	07/11/17 10:57	07/13/17 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*87*		*63 - 124*	*07/11/17 10:57*	*07/13/17 17:39*	*1*
Tetrachloro-m-xylene	*90*		*59 - 115*	*07/11/17 10:57*	*07/13/17 17:39*	*1*

Client Sample ID: B3BLR5
Date Collected: 07/05/17 08:41
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-4
Matrix: Soil
Percent Solids: 92.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.59	U	1.8	0.59	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
4,4'-DDE	0.26	U	1.8	0.26	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
4,4'-DDT	0.63	U	1.8	0.63	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Aldrin	0.27	U	1.8	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
alpha-BHC	0.23	U	1.8	0.23	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
beta-BHC	0.71	U	1.8	0.71	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
delta-BHC	0.43	U	1.8	0.43	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Dieldrin	0.23	U	1.8	0.23	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Endosulfan I	0.19	U	1.8	0.19	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Endosulfan II	0.31	U	1.8	0.31	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Endosulfan sulfate	0.30	U	1.8	0.30	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Endrin	0.33	U	1.8	0.33	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Endrin aldehyde	0.18	U	1.8	0.18	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
gamma-BHC (Lindane)	0.50	U	1.8	0.50	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Heptachlor epoxide	0.46	U	1.8	0.46	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Methoxychlor	0.48	U	3.6	0.48	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1
Toxaphene	17	U	72	17	ug/Kg	☼	07/11/17 10:57	07/13/17 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*95*		*63 - 124*	*07/11/17 10:57*	*07/13/17 18:32*	*1*
Tetrachloro-m-xylene	*95*		*59 - 115*	*07/11/17 10:57*	*07/13/17 18:32*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: B3BLT3 — **Lab Sample ID: 280-98955-5**
Date Collected: 07/05/17 08:50 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.53	U	1.7	0.53	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
4,4'-DDE	0.23	U	1.7	0.23	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
4,4'-DDT	0.58	U	1.7	0.58	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Aldrin	0.25	U	1.7	0.25	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
alpha-BHC	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
beta-BHC	0.65	U	1.7	0.65	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
delta-BHC	0.39	U	1.7	0.39	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Dieldrin	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Endosulfan I	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Endosulfan II	0.28	U	1.7	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Endosulfan sulfate	0.27	U	1.7	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Endrin	0.30	U	1.7	0.30	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
gamma-BHC (Lindane)	0.45	U	1.7	0.45	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Heptachlor epoxide	0.42	U	1.7	0.42	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Methoxychlor	0.44	U	3.2	0.44	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1
Toxaphene	15	U	65	15	ug/Kg	☼	07/11/17 10:57	07/13/17 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*93*		*63 - 124*	*07/11/17 10:57*	*07/13/17 18:50*	*1*
Tetrachloro-m-xylene	*94*		*59 - 115*	*07/11/17 10:57*	*07/13/17 18:50*	*1*

Client Sample ID: B3BLR9 — **Lab Sample ID: 280-98955-6**
Date Collected: 07/05/17 08:58 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.51	U	1.6	0.51	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
4,4'-DDE	0.22	U	1.6	0.22	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
4,4'-DDT	0.55	U	1.6	0.55	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Aldrin	0.24	U	1.6	0.24	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
alpha-BHC	0.20	U	1.6	0.20	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
beta-BHC	0.62	U	1.6	0.62	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
delta-BHC	0.38	U	1.6	0.38	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Dieldrin	0.20	U	1.6	0.20	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Endosulfan I	0.16	U	1.6	0.16	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Endosulfan II	0.27	U	1.6	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Endosulfan sulfate	0.26	U	1.6	0.26	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Endrin	0.29	U	1.6	0.29	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Endrin aldehyde	0.16	U	1.6	0.16	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
gamma-BHC (Lindane)	0.43	U	1.6	0.43	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Heptachlor epoxide	0.40	U	1.6	0.40	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Methoxychlor	0.42	U	3.1	0.42	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1
Toxaphene	15	U	63	15	ug/Kg	☼	07/11/17 10:57	07/13/17 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*96*		*63 - 124*	*07/11/17 10:57*	*07/13/17 19:07*	*1*
Tetrachloro-m-xylene	*96*		*59 - 115*	*07/11/17 10:57*	*07/13/17 19:07*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: B3BLT1 — **Lab Sample ID: 280-98955-7**
Date Collected: 07/05/17 08:30 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.53	U	1.7	0.53	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
4,4'-DDE	0.23	U	1.7	0.23	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
4,4'-DDT	0.57	U	1.7	0.57	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Aldrin	0.24	U	1.7	0.24	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
alpha-BHC	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
beta-BHC	0.64	U	1.7	0.64	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
delta-BHC	0.39	U	1.7	0.39	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Dieldrin	0.20	U	1.7	0.20	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Endosulfan I	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Endosulfan II	0.28	U	1.7	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Endosulfan sulfate	0.27	U	1.7	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Endrin	0.30	U	1.7	0.30	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
gamma-BHC (Lindane)	0.45	U	1.7	0.45	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Heptachlor epoxide	0.41	U	1.7	0.41	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Methoxychlor	0.44	U	3.2	0.44	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1
Toxaphene	15	U	65	15	ug/Kg	☼	07/11/17 10:57	07/13/17 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*96*		*63 - 124*	*07/11/17 10:57*	*07/13/17 19:25*	*1*
Tetrachloro-m-xylene	*91*		*59 - 115*	*07/11/17 10:57*	*07/13/17 19:25*	*1*

Client Sample ID: B3BLP3 — **Lab Sample ID: 280-98955-8**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.55	U	1.7	0.55	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
4,4'-DDE	0.24	U	1.7	0.24	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
4,4'-DDT	0.60	U	1.7	0.60	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Aldrin	0.25	U	1.7	0.25	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
alpha-BHC	0.22	U	1.7	0.22	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
beta-BHC	0.67	U	1.7	0.67	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
delta-BHC	0.41	U	1.7	0.41	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Dieldrin	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Endosulfan I	0.18	U	1.7	0.18	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Endosulfan II	0.29	U	1.7	0.29	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Endosulfan sulfate	0.28	U	1.7	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Endrin	0.31	U	1.7	0.31	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
gamma-BHC (Lindane)	0.47	U	1.7	0.47	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Heptachlor epoxide	0.43	U	1.7	0.43	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Methoxychlor	0.46	U	3.3	0.46	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1
Toxaphene	16	U	68	16	ug/Kg	☼	07/11/17 10:57	07/13/17 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*101*		*63 - 124*	*07/11/17 10:57*	*07/13/17 19:42*	*1*
Tetrachloro-m-xylene	*96*		*59 - 115*	*07/11/17 10:57*	*07/13/17 19:42*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: B3BLR3
Date Collected: 07/05/17 07:30
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-9
Matrix: Soil
Percent Solids: 100.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.54	U	1.7	0.54	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
4,4'-DDE	0.23	U	1.7	0.23	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
4,4'-DDT	0.58	U	1.7	0.58	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Aldrin	0.25	U	1.7	0.25	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
alpha-BHC	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
beta-BHC	0.65	U	1.7	0.65	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
delta-BHC	0.39	U	1.7	0.39	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Dieldrin	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Endosulfan I	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Endosulfan II	0.28	U	1.7	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Endosulfan sulfate	0.27	U	1.7	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Endrin	0.30	U	1.7	0.30	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
gamma-BHC (Lindane)	0.46	U	1.7	0.46	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Heptachlor epoxide	0.42	U	1.7	0.42	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Methoxychlor	0.44	U	3.2	0.44	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1
Toxaphene	16	U	66	16	ug/Kg	☼	07/11/17 10:57	07/13/17 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*96*		*63 - 124*	*07/11/17 10:57*	*07/13/17 20:00*	*1*
Tetrachloro-m-xylene	*100*		*59 - 115*	*07/11/17 10:57*	*07/13/17 20:00*	*1*

Client Sample ID: B3BLR1
Date Collected: 07/05/17 07:48
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-10
Matrix: Soil
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.55	U	1.7	0.55	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
4,4'-DDE	0.24	U	1.7	0.24	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
4,4'-DDT	0.59	U	1.7	0.59	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Aldrin	0.25	U	1.7	0.25	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
alpha-BHC	0.22	U	1.7	0.22	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
beta-BHC	0.67	U	1.7	0.67	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
delta-BHC	0.40	U	1.7	0.40	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Dieldrin	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Endosulfan I	0.18	U	1.7	0.18	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Endosulfan II	0.29	U	1.7	0.29	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Endosulfan sulfate	0.28	U	1.7	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Endrin	0.31	U	1.7	0.31	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
gamma-BHC (Lindane)	0.47	U	1.7	0.47	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Heptachlor epoxide	0.43	U	1.7	0.43	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Methoxychlor	0.45	U	3.3	0.45	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1
Toxaphene	16	U	67	16	ug/Kg	☼	07/11/17 10:57	07/13/17 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*91*		*63 - 124*	*07/11/17 10:57*	*07/13/17 20:17*	*1*
Tetrachloro-m-xylene	*94*		*59 - 115*	*07/11/17 10:57*	*07/13/17 20:17*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: B3BLP1 — **Lab Sample ID: 280-98955-11**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.54	U	1.7	0.54	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
4,4'-DDE	0.24	U	1.7	0.24	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
4,4'-DDT	0.59	U	1.7	0.59	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Aldrin	0.25	U	1.7	0.25	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
alpha-BHC	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
beta-BHC	0.66	U	1.7	0.66	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
delta-BHC	0.40	U	1.7	0.40	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Dieldrin	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Endosulfan I	0.18	U	1.7	0.18	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Endosulfan II	0.29	U	1.7	0.29	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Endosulfan sulfate	0.27	U	1.7	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Endrin	0.30	U	1.7	0.30	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
gamma-BHC (Lindane)	0.46	U	1.7	0.46	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Heptachlor epoxide	0.42	U	1.7	0.42	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Methoxychlor	0.45	U	3.3	0.45	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1
Toxaphene	16	U	67	16	ug/Kg	☼	07/11/17 10:57	07/13/17 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*94*		*63 - 124*	*07/11/17 10:57*	*07/13/17 20:35*	*1*
Tetrachloro-m-xylene	*96*		*59 - 115*	*07/11/17 10:57*	*07/13/17 20:35*	*1*

Client Sample ID: B3BLN9 — **Lab Sample ID: 280-98955-12**
Date Collected: 07/05/17 07:56 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.53	U	1.6	0.53	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
4,4'-DDE	0.23	U	1.6	0.23	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
4,4'-DDT	0.57	U	1.6	0.57	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Aldrin	0.24	U	1.6	0.24	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
alpha-BHC	0.21	U	1.6	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
beta-BHC	0.64	U	1.6	0.64	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
delta-BHC	0.39	U	1.6	0.39	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Dieldrin	0.20	U	1.6	0.20	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Endosulfan I	0.17	U	1.6	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Endosulfan II	0.28	U	1.6	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Endosulfan sulfate	0.27	U	1.6	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Endrin	0.30	U	1.6	0.30	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Endrin aldehyde	0.17	U	1.6	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
gamma-BHC (Lindane)	0.45	U	1.6	0.45	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Heptachlor epoxide	0.41	U	1.6	0.41	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Methoxychlor	0.44	U	3.2	0.44	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1
Toxaphene	15	U	65	15	ug/Kg	☼	07/11/17 10:57	07/13/17 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*92*		*63 - 124*	*07/11/17 10:57*	*07/13/17 20:52*	*1*
Tetrachloro-m-xylene	*93*		*59 - 115*	*07/11/17 10:57*	*07/13/17 20:52*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC)

Client Sample ID: B3BLN7
Date Collected: 07/05/17 07:42
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-13
Matrix: Soil
Percent Solids: 96.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.56	U	1.7	0.56	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
4,4'-DDE	0.24	U	1.7	0.24	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
4,4'-DDT	0.60	U	1.7	0.60	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Aldrin	0.26	U	1.7	0.26	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
alpha-BHC	0.22	U	1.7	0.22	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
beta-BHC	0.68	U	1.7	0.68	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
delta-BHC	0.41	U	1.7	0.41	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Dieldrin	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Endosulfan I	0.18	U	1.7	0.18	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Endosulfan II	0.29	U	1.7	0.29	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Endosulfan sulfate	0.28	U	1.7	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Endrin	0.31	U	1.7	0.31	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
gamma-BHC (Lindane)	0.47	U	1.7	0.47	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Heptachlor epoxide	0.43	U	1.7	0.43	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Methoxychlor	0.46	U	3.4	0.46	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1
Toxaphene	16	U	68	16	ug/Kg	☼	07/11/17 10:57	07/13/17 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*95*		*63 - 124*	*07/11/17 10:57*	*07/13/17 21:10*	*1*
Tetrachloro-m-xylene	*96*		*59 - 115*	*07/11/17 10:57*	*07/13/17 21:10*	*1*

Client Sample ID: B3BLP5
Date Collected: 07/05/17 08:33
Date Received: 07/06/17 08:50

Lab Sample ID: 280-98955-14
Matrix: Soil
Percent Solids: 96.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.53	U	1.7	0.53	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
4,4'-DDE	0.23	U	1.7	0.23	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
4,4'-DDT	0.58	U	1.7	0.58	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Aldrin	0.25	U	1.7	0.25	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
alpha-BHC	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
beta-BHC	0.65	U	1.7	0.65	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
delta-BHC	0.39	U	1.7	0.39	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Dieldrin	0.21	U	1.7	0.21	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Endosulfan I	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Endosulfan II	0.28	U	1.7	0.28	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Endosulfan sulfate	0.27	U	1.7	0.27	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Endrin	0.30	U	1.7	0.30	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Endrin aldehyde	0.17	U	1.7	0.17	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
gamma-BHC (Lindane)	0.45	U	1.7	0.45	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Heptachlor epoxide	0.42	U	1.7	0.42	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Methoxychlor	0.44	U	3.2	0.44	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1
Toxaphene	15	U	65	15	ug/Kg	☼	07/11/17 10:57	07/13/17 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*92*		*63 - 124*	*07/11/17 10:57*	*07/13/17 21:27*	*1*
Tetrachloro-m-xylene	*93*		*59 - 115*	*07/11/17 10:57*	*07/13/17 21:27*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Client Sample ID: B3BLR7 — **Lab Sample ID: 280-98955-1**
Date Collected: 07/05/17 08:38 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	1900	J B	3700	630	ug/Kg	☼	07/10/17 12:15	07/12/17 18:33	1
Kerosene (C8-C12)	1600	J	3700	930	ug/Kg	☼	07/10/17 12:15	07/12/17 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		49 - 140	07/10/17 12:15	07/12/17 18:33	1

Client Sample ID: B3BLP9 — **Lab Sample ID: 280-98955-2**
Date Collected: 07/05/17 09:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	2700	J B	3900	660	ug/Kg	☼	07/10/17 12:15	07/12/17 18:58	1
Kerosene (C8-C12)	1400	J	3900	970	ug/Kg	☼	07/10/17 12:15	07/12/17 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		49 - 140	07/10/17 12:15	07/12/17 18:58	1

Client Sample ID: B3BLP7 — **Lab Sample ID: 280-98955-3**
Date Collected: 07/05/17 08:55 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	2100	J B	4100	690	ug/Kg	☼	07/10/17 12:15	07/12/17 20:59	1
Kerosene (C8-C12)	1700	J	4100	1000	ug/Kg	☼	07/10/17 12:15	07/12/17 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		49 - 140	07/10/17 12:15	07/12/17 20:59	1

Client Sample ID: B3BLR5 — **Lab Sample ID: 280-98955-4**
Date Collected: 07/05/17 08:41 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	2100	J B	3900	670	ug/Kg	☼	07/10/17 12:15	07/12/17 21:24	1
Kerosene (C8-C12)	2100	J	3900	980	ug/Kg	☼	07/10/17 12:15	07/12/17 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		49 - 140	07/10/17 12:15	07/12/17 21:24	1

Client Sample ID: B3BLT3 — **Lab Sample ID: 280-98955-5**
Date Collected: 07/05/17 08:50 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	2800	J B	4100	690	ug/Kg	☼	07/10/17 12:15	07/12/17 22:37	1
Kerosene (C8-C12)	1900	J	4100	1000	ug/Kg	☼	07/10/17 12:15	07/12/17 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		49 - 140	07/10/17 12:15	07/12/17 22:37	1

Client Sample ID: B3BLR9 — **Lab Sample ID: 280-98955-6**
Date Collected: 07/05/17 08:58 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	2400	J B	3700	620	ug/Kg	☼	07/10/17 12:15	07/12/17 23:01	1
Kerosene (C8-C12)	1900	J	3700	920	ug/Kg	☼	07/10/17 12:15	07/12/17 23:01	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		49 - 140	07/10/17 12:15	07/12/17 23:01	1

Client Sample ID: B3BLT1 — **Lab Sample ID: 280-98955-7**
Date Collected: 07/05/17 08:30 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	2700	J B	3700	630	ug/Kg	☼	07/10/17 12:15	07/12/17 23:25	1
Kerosene (C8-C12)	2100	J	3700	930	ug/Kg	☼	07/10/17 12:15	07/12/17 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	98		49 - 140	07/10/17 12:15	07/12/17 23:25	1

Client Sample ID: B3BLP3 — **Lab Sample ID: 280-98955-8**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	4300	B	3900	660	ug/Kg	☼	07/10/17 12:15	07/12/17 23:49	1
Kerosene (C8-C12)	3000	J	3900	970	ug/Kg	☼	07/10/17 12:15	07/12/17 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	98		49 - 140	07/10/17 12:15	07/12/17 23:49	1

Client Sample ID: B3BLR3 — **Lab Sample ID: 280-98955-9**
Date Collected: 07/05/17 07:30 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	5200	B	3700	630	ug/Kg	☼	07/10/17 12:15	07/13/17 00:14	1
Kerosene (C8-C12)	3800		3700	920	ug/Kg	☼	07/10/17 12:15	07/13/17 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		49 - 140	07/10/17 12:15	07/13/17 00:14	1

Client Sample ID: B3BLR1 — **Lab Sample ID: 280-98955-10**
Date Collected: 07/05/17 07:48 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	2300	J B	4000	680	ug/Kg	☼	07/10/17 12:15	07/13/17 00:38	1
Kerosene (C8-C12)	1600	J	4000	1000	ug/Kg	☼	07/10/17 12:15	07/13/17 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		49 - 140	07/10/17 12:15	07/13/17 00:38	1

Client Sample ID: B3BLP1 — **Lab Sample ID: 280-98955-11**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	1900	J B	3900	670	ug/Kg	☼	07/10/17 12:15	07/13/17 01:02	1
Kerosene (C8-C12)	1300	J	3900	980	ug/Kg	☼	07/10/17 12:15	07/13/17 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		49 - 140	07/10/17 12:15	07/13/17 01:02	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Client Sample ID: B3BLN9 — **Lab Sample ID: 280-98955-12**
Date Collected: 07/05/17 07:56 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	3400	J B	3800	650	ug/Kg	☼	07/10/17 12:15	07/13/17 01:26	1
Kerosene (C8-C12)	1600	J	3800	960	ug/Kg	☼	07/10/17 12:15	07/13/17 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*49 - 140*	*07/10/17 12:15*	*07/13/17 01:26*	*1*

Client Sample ID: B3BLN7 — **Lab Sample ID: 280-98955-13**
Date Collected: 07/05/17 07:42 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	2300	J B	3900	650	ug/Kg	☼	07/10/17 12:15	07/13/17 01:51	1
Kerosene (C8-C12)	1600	J	3900	960	ug/Kg	☼	07/10/17 12:15	07/13/17 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*49 - 140*	*07/10/17 12:15*	*07/13/17 01:51*	*1*

Client Sample ID: B3BLP5 — **Lab Sample ID: 280-98955-14**
Date Collected: 07/05/17 08:33 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	2400	J B	4100	700	ug/Kg	☼	07/10/17 12:15	07/13/17 02:15	1
Kerosene (C8-C12)	2100	J	4100	1000	ug/Kg	☼	07/10/17 12:15	07/13/17 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*49 - 140*	*07/10/17 12:15*	*07/13/17 02:15*	*1*

Method: 6010C - Metals (ICP)

Client Sample ID: B3BLR7 — **Lab Sample ID: 280-98955-1**
Date Collected: 07/05/17 08:38 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	606	U N	1240	606	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Arsenic	4310		1650	549	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Barium	75400		826	85.9	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Beryllium	557		413	27.3	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Boron	1060	B	8260	810	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Cadmium	59.0	B	413	33.9	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Chromium	9110		1240	47.9	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Cobalt	16900		826	82.6	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Copper	20800		1650	179	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Lead	5520		744	256	ug/Kg	☼	07/07/17 13:30	07/12/17 17:27	1
Manganese	468000		826	82.6	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Molybdenum	226	B	1650	215	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Nickel	12400		3300	109	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Selenium	711	U	1240	711	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Silver	132	B	826	132	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Vanadium	82400		1650	77.7	ug/Kg	☼	07/07/17 13:30	07/10/17 14:57	1
Zinc	58600		2480	329	ug/Kg	☼	07/07/17 13:30	07/11/17 16:49	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 6010C - Metals (ICP)

Client Sample ID: B3BLP9 — **Lab Sample ID: 280-98955-2**
Date Collected: 07/05/17 09:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	544	U N	1110	544	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Arsenic	4470		1480	494	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Barium	88300		742	77.2	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Beryllium	599		371	24.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Boron	1160	B	7420	728	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Cadmium	72.2	B	371	30.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Chromium	11900		1110	43.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Cobalt	16800		742	74.2	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Copper	22400		1480	161	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Lead	7650		668	230	ug/Kg	☼	07/07/17 13:30	07/12/17 17:30	1
Manganese	478000		742	74.2	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Molybdenum	269	B	1480	193	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Nickel	16900		2970	98.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Selenium	638	U	1110	638	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Silver	140	B	742	119	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Vanadium	74700		1480	69.8	ug/Kg	☼	07/07/17 13:30	07/10/17 15:00	1
Zinc	63000		2230	295	ug/Kg	☼	07/07/17 13:30	07/11/17 16:52	1

Client Sample ID: B3BLP7 — **Lab Sample ID: 280-98955-3**
Date Collected: 07/05/17 08:55 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	689	U N	1410	689	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Arsenic	7130		1880	625	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Barium	104000		940	97.8	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Beryllium	810		470	31.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Boron	1650	B	9400	922	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Cadmium	69.7	B	470	38.6	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Chromium	16000		1410	54.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Cobalt	26900		940	94.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Copper	28000		1880	204	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Lead	9730		846	292	ug/Kg	☼	07/07/17 13:30	07/12/17 17:45	1
Manganese	550000		940	94.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Molybdenum	256	B	1880	245	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Nickel	19400		3760	124	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Selenium	809	U	1410	809	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Silver	150	U	940	150	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Vanadium	72700		1880	88.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:03	1
Zinc	71400		2820	374	ug/Kg	☼	07/07/17 13:30	07/11/17 17:07	1

Client Sample ID: B3BLR5 — **Lab Sample ID: 280-98955-4**
Date Collected: 07/05/17 08:41 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	545	U N	1120	545	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Arsenic	4600		1490	494	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Barium	81300		744	77.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Beryllium	528		372	24.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Boron	1020	B	7440	729	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Cadmium	45.3	B	372	30.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLR5 — **Lab Sample ID: 280-98955-4**
Date Collected: 07/05/17 08:41 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	11600		1120	43.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Cobalt	16600		744	74.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Copper	25200		1490	161	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Lead	6810		669	231	ug/Kg	☼	07/07/17 13:30	07/12/17 17:48	1
Manganese	457000		744	74.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Molybdenum	213	B	1490	193	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Nickel	14500		2970	98.2	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Selenium	639	U	1120	639	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Silver	130	B	744	119	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Vanadium	71100		1490	69.9	ug/Kg	☼	07/07/17 13:30	07/10/17 15:06	1
Zinc	60600		2230	296	ug/Kg	☼	07/07/17 13:30	07/11/17 17:10	1

Client Sample ID: B3BLT3 — **Lab Sample ID: 280-98955-5**
Date Collected: 07/05/17 08:50 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	628	U N	1280	628	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Arsenic	7100		1710	569	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Barium	88000		856	89.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Beryllium	755		428	28.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Boron	1620	B	8560	839	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Cadmium	58.2	B	428	35.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Chromium	15400		1280	49.7	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Cobalt	13100		856	85.6	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Copper	21500		1710	186	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Lead	10800		771	265	ug/Kg	☼	07/07/17 13:30	07/12/17 18:03	1
Manganese	478000		856	85.6	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Molybdenum	223	U	1710	223	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Nickel	17100		3420	113	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Selenium	736	U	1280	736	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Silver	137	U	856	137	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Vanadium	48800		1710	80.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:33	1
Zinc	59000		2570	341	ug/Kg	☼	07/07/17 13:30	07/11/17 17:25	1

Client Sample ID: B3BLR9 — **Lab Sample ID: 280-98955-6**
Date Collected: 07/05/17 08:58 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	500	U N	1020	500	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Arsenic	3210		1370	454	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Barium	64800		683	71.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Beryllium	463		341	22.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Boron	714	B	6830	669	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Cadmium	64.4	B	341	28.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Chromium	6630		1020	39.6	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Cobalt	15500		683	68.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Copper	19000		1370	148	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Lead	4540		614	212	ug/Kg	☼	07/07/17 13:30	07/12/17 18:06	1
Manganese	389000		683	68.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Molybdenum	223	B	1370	177	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLR9 — **Lab Sample ID: 280-98955-6**
Date Collected: 07/05/17 08:58 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**10100**		2730	90.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Selenium	587	U	1020	587	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Silver	109	U	683	109	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Vanadium	**77100**		1370	64.2	ug/Kg	☼	07/07/17 13:30	07/10/17 15:36	1
Zinc	**53700**		2050	272	ug/Kg	☼	07/07/17 13:30	07/11/17 17:28	1

Client Sample ID: B3BLT1 — **Lab Sample ID: 280-98955-7**
Date Collected: 07/05/17 08:30 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	518	U N	1060	518	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Arsenic	**5080**		1410	470	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Barium	**68200**		707	73.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Beryllium	**540**		354	23.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Boron	**1040**	**B**	7070	693	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Cadmium	**73.9**	**B**	354	29.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Chromium	**9640**		1060	41.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Cobalt	**14400**		707	70.7	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Copper	**19300**		1410	153	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Lead	**7420**		636	219	ug/Kg	☼	07/07/17 13:30	07/12/17 18:09	1
Manganese	**405000**		707	70.7	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Molybdenum	**225**	**B**	1410	184	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Nickel	**12000**		2830	93.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Selenium	608	U	1060	608	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Silver	113	U	707	113	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Vanadium	**64500**		1410	66.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:39	1
Zinc	**54200**		2120	281	ug/Kg	☼	07/07/17 13:30	07/11/17 17:31	1

Client Sample ID: B3BLP3 — **Lab Sample ID: 280-98955-8**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	585	U N	1200	585	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Arsenic	**3050**		1600	531	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Barium	**63500**		798	83.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Beryllium	**519**		399	26.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Boron	782	U	7980	782	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Cadmium	**70.4**	**B**	399	32.7	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Chromium	**6040**		1200	46.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Cobalt	**15500**		798	79.8	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Copper	**17200**		1600	173	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Lead	**4470**		718	247	ug/Kg	☼	07/07/17 13:30	07/12/17 18:12	1
Manganese	**378000**		798	79.8	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Molybdenum	208	U	1600	208	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Nickel	**9320**		3190	105	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Selenium	686	U	1200	686	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Silver	128	U	798	128	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Vanadium	**74900**		1600	75.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:42	1
Zinc	**53700**		2390	318	ug/Kg	☼	07/07/17 13:30	07/11/17 17:34	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 6010C - Metals (ICP)

Client Sample ID: B3BLR3 — **Lab Sample ID: 280-98955-9**
Date Collected: 07/05/17 07:30 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	497	U N	1020	497	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Arsenic	451	U	1360	451	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Barium	**336**	**B C**	678	70.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Beryllium	22.4	U	339	22.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Boron	664	U	6780	664	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Cadmium	27.8	U	339	27.8	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Chromium	**246**	**B**	1020	39.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Cobalt	**80.4**	**B**	678	67.8	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Copper	**376**	**B**	1360	147	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Lead	210	U	610	210	ug/Kg	☼	07/07/17 13:30	07/12/17 18:27	1
Manganese	**562**	**B**	678	67.8	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Molybdenum	176	U	1360	176	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Nickel	**126**	**B**	2710	89.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Selenium	583	U	1020	583	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Silver	108	U	678	108	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Vanadium	**109**	**B**	1360	63.7	ug/Kg	☼	07/07/17 13:30	07/10/17 15:45	1
Zinc	**376**	**B**	2030	270	ug/Kg	☼	07/07/17 13:30	07/11/17 17:49	1

Client Sample ID: B3BLR1 — **Lab Sample ID: 280-98955-10**
Date Collected: 07/05/17 07:48 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	543	U N	1110	543	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Arsenic	**4550**		1480	493	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Barium	**76200**		741	77.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Beryllium	**505**		370	24.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Boron	**1320**	**B**	7410	726	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Cadmium	**46.6**	**B**	370	30.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Chromium	**12700**		1110	43.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Cobalt	**14000**		741	74.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Copper	**22100**		1480	161	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Lead	**7630**		667	230	ug/Kg	☼	07/07/17 13:30	07/12/17 18:30	1
Manganese	**409000**		741	74.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Molybdenum	**225**	**B**	1480	193	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Nickel	**19000**		2960	97.8	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Selenium	637	U	1110	637	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Silver	**123**	**B**	741	119	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Vanadium	**63000**		1480	69.6	ug/Kg	☼	07/07/17 13:30	07/10/17 15:48	1
Zinc	**54900**		2220	295	ug/Kg	☼	07/07/17 13:30	07/11/17 17:52	1

Client Sample ID: B3BLP1 — **Lab Sample ID: 280-98955-11**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	625	U N	1280	625	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Arsenic	**3630**		1710	567	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Barium	**74700**		853	88.7	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Beryllium	**525**		426	28.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Boron	836	U	8530	836	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Cadmium	**77.1**	**B**	426	35.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLP1 — **Lab Sample ID: 280-98955-11**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	7280		1280	49.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Cobalt	16900		853	85.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Copper	19000		1710	185	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Lead	5190		767	264	ug/Kg	☼	07/07/17 13:30	07/12/17 18:33	1
Manganese	436000		853	85.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Molybdenum	222	U	1710	222	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Nickel	10900		3410	113	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Selenium	733	U	1280	733	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Silver	136	U	853	136	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Vanadium	81900		1710	80.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:51	1
Zinc	59800		2560	339	ug/Kg	☼	07/07/17 13:30	07/11/17 17:55	1

Client Sample ID: B3BLN9 — **Lab Sample ID: 280-98955-12**
Date Collected: 07/05/17 07:56 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	631	U N	1290	631	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Arsenic	4470		1720	573	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Barium	67000		861	89.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Beryllium	447		431	28.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Boron	1120	B	8610	844	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Cadmium	57.6	B	431	35.3	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Chromium	9780		1290	49.9	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Cobalt	14400		861	86.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Copper	19400		1720	187	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Lead	6880		775	267	ug/Kg	☼	07/07/17 13:30	07/12/17 18:36	1
Manganese	401000		861	86.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Molybdenum	224	U	1720	224	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Nickel	13200		3440	114	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Selenium	740	U	1290	740	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Silver	138	U	861	138	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Vanadium	67800		1720	80.9	ug/Kg	☼	07/07/17 13:30	07/10/17 15:54	1
Zinc	57300		2580	343	ug/Kg	☼	07/07/17 13:30	07/11/17 17:58	1

Client Sample ID: B3BLN7 — **Lab Sample ID: 280-98955-13**
Date Collected: 07/05/17 07:42 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	581	U N	1190	581	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Arsenic	3640		1580	527	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Barium	66800		792	82.4	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Beryllium	490		396	26.1	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Boron	776	U	7920	776	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Cadmium	51.9	B	396	32.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Chromium	7170		1190	46.0	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Cobalt	15500		792	79.2	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Copper	18900		1580	172	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Lead	4940		713	246	ug/Kg	☼	07/07/17 13:30	07/12/17 18:39	1
Manganese	379000		792	79.2	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Molybdenum	251	B	1580	206	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Client Sample ID: B3BLN7 — **Lab Sample ID: 280-98955-13**
Date Collected: 07/05/17 07:42 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	10300		3170	105	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Selenium	681	U	1190	681	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Silver	133	B	792	127	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Vanadium	73800		1580	74.5	ug/Kg	☼	07/07/17 13:30	07/10/17 15:57	1
Zinc	57400		2380	315	ug/Kg	☼	07/07/17 13:30	07/11/17 18:01	1

Client Sample ID: B3BLP5 — **Lab Sample ID: 280-98955-14**
Date Collected: 07/05/17 08:33 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	751	U N	1540	751	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Arsenic	5980		2050	681	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Barium	95600		1020	107	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Beryllium	737		512	33.8	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Boron	1410	B	10200	1000	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Cadmium	53.9	B	512	42.0	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Chromium	15200		1540	59.4	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Cobalt	16700		1020	102	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Copper	25300		2050	222	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Lead	9590		922	318	ug/Kg	☼	07/07/17 13:30	07/12/17 18:42	1
Manganese	522000		1020	102	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Molybdenum	266	U	2050	266	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Nickel	17700		4100	135	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Selenium	881	U	1540	881	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Silver	164	U	1020	164	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Vanadium	66000		2050	96.3	ug/Kg	☼	07/07/17 13:30	07/10/17 16:00	1
Zinc	69600		3070	408	ug/Kg	☼	07/07/17 13:30	07/11/17 18:04	1

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3BLR7 — **Lab Sample ID: 280-98955-1**
Date Collected: 07/05/17 08:38 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.0	U	18.4	6.0	ug/Kg	☼	07/11/17 12:13	07/11/17 15:30	1

Client Sample ID: B3BLP9 — **Lab Sample ID: 280-98955-2**
Date Collected: 07/05/17 09:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.0	B	20.3	6.6	ug/Kg	☼	07/11/17 12:13	07/11/17 15:33	1

Client Sample ID: B3BLP7 — **Lab Sample ID: 280-98955-3**
Date Collected: 07/05/17 08:55 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.2	B	18.8	6.1	ug/Kg	☼	07/11/17 12:13	07/11/17 15:35	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3BLR5 — **Lab Sample ID: 280-98955-4**
Date Collected: 07/05/17 08:41 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.8	B	20.7	6.7	ug/Kg	☼	07/11/17 12:13	07/11/17 15:37	1

Client Sample ID: B3BLT3 — **Lab Sample ID: 280-98955-5**
Date Collected: 07/05/17 08:50 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.9	B	20.3	6.6	ug/Kg	☼	07/11/17 12:13	07/11/17 15:48	1

Client Sample ID: B3BLR9 — **Lab Sample ID: 280-98955-6**
Date Collected: 07/05/17 08:58 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.9	U	18.1	5.9	ug/Kg	☼	07/11/17 12:13	07/11/17 15:50	1

Client Sample ID: B3BLT1 — **Lab Sample ID: 280-98955-7**
Date Collected: 07/05/17 08:30 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.9	B	19.9	6.5	ug/Kg	☼	07/11/17 12:13	07/11/17 15:53	1

Client Sample ID: B3BLP3 — **Lab Sample ID: 280-98955-8**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.3	U	19.5	6.3	ug/Kg	☼	07/11/17 12:13	07/11/17 15:55	1

Client Sample ID: B3BLR3 — **Lab Sample ID: 280-98955-9**
Date Collected: 07/05/17 07:30 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 100.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.4	U	19.6	6.4	ug/Kg	☼	07/11/17 12:13	07/11/17 15:57	1

Client Sample ID: B3BLR1 — **Lab Sample ID: 280-98955-10**
Date Collected: 07/05/17 07:48 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.7	B	19.6	6.4	ug/Kg	☼	07/11/17 12:13	07/11/17 15:59	1

Client Sample ID: B3BLP1 — **Lab Sample ID: 280-98955-11**
Date Collected: 07/05/17 08:05 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 98.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.9	U	18.2	5.9	ug/Kg	☼	07/11/17 12:13	07/11/17 16:02	1

Client Sample ID: B3BLN9 — **Lab Sample ID: 280-98955-12**
Date Collected: 07/05/17 07:56 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 97.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.8	B	18.7	6.1	ug/Kg	☼	07/11/17 12:13	07/11/17 16:04	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3BLN7 — **Lab Sample ID: 280-98955-13**
Date Collected: 07/05/17 07:42 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.9	U	18.3	5.9	ug/Kg	☼	07/11/17 12:13	07/11/17 16:06	1

Client Sample ID: B3BLP5 — **Lab Sample ID: 280-98955-14**
Date Collected: 07/05/17 08:33 — **Matrix: Soil**
Date Received: 07/06/17 08:50 — **Percent Solids: 96.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**8.4**	**B**	20.4	6.6	ug/Kg	☼	07/11/17 12:13	07/11/17 16:08	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Lab Sample ID: MB 280-380235/1-A
Matrix: Solid
Analysis Batch: 380687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 380235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.15	U	4.8	0.15	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Acenaphthylene	0.16	U	4.8	0.16	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Anthracene	0.69	U	4.8	0.69	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Benzo[a]anthracene	0.86	U	4.8	0.86	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Benzo[a]pyrene	0.70	U	4.8	0.70	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Benzo[b]fluoranthene	1.1	U	4.8	1.1	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Benzo[g,h,i]perylene	1.0	U	4.8	1.0	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Benzo[k]fluoranthene	0.95	U	4.8	0.95	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Chrysene	0.95	U	4.8	0.95	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Dibenz[a,h]anthracene	1.2	U	4.8	1.2	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Fluoranthene	0.95	U	4.8	0.95	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Fluorene	0.45	U	4.8	0.45	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Indeno[1,2,3-cd]pyrene	1.0	U	4.8	1.0	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Naphthalene	0.31	U	4.8	0.31	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Phenanthrene	1.0	U	4.8	1.0	ug/Kg		07/10/17 12:16	07/13/17 13:05	1
Pyrene	1.0	U	4.8	1.0	ug/Kg		07/10/17 12:16	07/13/17 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*39 - 120*	*07/10/17 12:16*	*07/13/17 13:05*	*1*
Nitrobenzene-d5	*65*		*42 - 120*	*07/10/17 12:16*	*07/13/17 13:05*	*1*
Terphenyl-d14	*83*		*35 - 124*	*07/10/17 12:16*	*07/13/17 13:05*	*1*

Lab Sample ID: LCS 280-380235/2-A
Matrix: Solid
Analysis Batch: 380687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 380235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	29.5	23.0		ug/Kg		78	35 - 130
Acenaphthylene	29.5	21.4		ug/Kg		72	41 - 130
Anthracene	29.5	23.2		ug/Kg		79	43 - 130
Benzo[a]anthracene	29.5	24.2		ug/Kg		82	36 - 130
Benzo[a]pyrene	29.5	25.0		ug/Kg		85	20 - 130
Benzo[b]fluoranthene	29.5	25.3		ug/Kg		86	37 - 130
Benzo[g,h,i]perylene	29.5	27.1		ug/Kg		92	20 - 130
Benzo[k]fluoranthene	29.5	26.9		ug/Kg		91	46 - 130
Chrysene	29.5	26.8		ug/Kg		91	34 - 130
Dibenz[a,h]anthracene	29.5	27.7		ug/Kg		94	20 - 130
Fluoranthene	29.5	21.8		ug/Kg		74	45 - 130
Fluorene	29.5	20.9		ug/Kg		71	44 - 130
Indeno[1,2,3-cd]pyrene	29.5	26.0		ug/Kg		88	20 - 130
Naphthalene	29.5	27.2		ug/Kg		92	44 - 130
Phenanthrene	29.5	24.6		ug/Kg		83	44 - 130
Pyrene	29.5	23.4		ug/Kg		79	43 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*39 - 120*
Nitrobenzene-d5	*66*		*42 - 120*

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Lab Sample ID: LCS 280-380235/2-A
Matrix: Solid
Analysis Batch: 380687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 380235

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*78*		*35 - 124*

Lab Sample ID: 280-98955-1 MS
Matrix: Soil
Analysis Batch: 380687

Client Sample ID: B3BLR7
Prep Type: Total/NA
Prep Batch: 380235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.16	U	30.1	22.4		ug/Kg	☼	74	35 - 120
Acenaphthylene	0.17	U	30.1	20.0		ug/Kg	☼	66	41 - 120
Anthracene	1.0	J	30.1	25.4		ug/Kg	☼	81	43 - 120
Benzo[a]anthracene	12	T	30.1	39.7		ug/Kg	☼	91	36 - 120
Benzo[a]pyrene	11		30.1	38.7		ug/Kg	☼	93	20 - 120
Benzo[b]fluoranthene	19		30.1	43.2		ug/Kg	☼	81	37 - 120
Benzo[g,h,i]perylene	10		30.1	33.2		ug/Kg	☼	77	20 - 123
Benzo[k]fluoranthene	8.1		30.1	36.5		ug/Kg	☼	94	46 - 120
Chrysene	21	T	30.1	49.9		ug/Kg	☼	97	34 - 120
Dibenz[a,h]anthracene	3.5	J	30.1	29.1		ug/Kg	☼	85	20 - 120
Fluoranthene	20	T	30.1	53.9		ug/Kg	☼	111	45 - 120
Fluorene	0.46	U	30.1	20.8		ug/Kg	☼	69	44 - 120
Indeno[1,2,3-cd]pyrene	11		30.1	32.6		ug/Kg	☼	72	20 - 127
Naphthalene	0.32	U	30.1	25.7		ug/Kg	☼	85	44 - 120
Phenanthrene	8.0	T	30.1	46.5	T	ug/Kg	☼	128	44 - 120
Pyrene	21	T	30.1	53.9		ug/Kg	☼	110	43 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*39 - 120*
Nitrobenzene-d5	*60*		*42 - 120*
Terphenyl-d14	*76*		*35 - 124*

Lab Sample ID: 280-98955-1 MSD
Matrix: Soil
Analysis Batch: 380687

Client Sample ID: B3BLR7
Prep Type: Total/NA
Prep Batch: 380235

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.16	U	29.5	21.5		ug/Kg	☼	73	35 - 120	4	50
Acenaphthylene	0.17	U	29.5	19.6		ug/Kg	☼	67	41 - 120	2	50
Anthracene	1.0	J	29.5	24.0		ug/Kg	☼	78	43 - 120	6	50
Benzo[a]anthracene	12	T	29.5	50.4	T	ug/Kg	☼	129	36 - 120	24	40
Benzo[a]pyrene	11		29.5	45.7		ug/Kg	☼	118	20 - 120	17	30
Benzo[b]fluoranthene	19		29.5	49.2		ug/Kg	☼	103	37 - 120	13	30
Benzo[g,h,i]perylene	10		29.5	31.9		ug/Kg	☼	74	20 - 123	4	30
Benzo[k]fluoranthene	8.1		29.5	41.1		ug/Kg	☼	112	46 - 120	12	30
Chrysene	21	T	29.5	61.5	T	ug/Kg	☼	138	34 - 120	21	41
Dibenz[a,h]anthracene	3.5	J	29.5	27.4		ug/Kg	☼	81	20 - 120	6	30
Fluoranthene	20	T	29.5	64.9	T	ug/Kg	☼	151	45 - 120	19	30
Fluorene	0.46	U	29.5	19.9		ug/Kg	☼	68	44 - 120	4	50
Indeno[1,2,3-cd]pyrene	11		29.5	41.0		ug/Kg	☼	101	20 - 127	23	50
Naphthalene	0.32	U	29.5	25.9		ug/Kg	☼	88	44 - 120	1	50

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Lab Sample ID: 280-98955-1 MSD — **Client Sample ID: B3BLR7**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380687 — **Prep Batch: 380235**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenanthrene	8.0	T	29.5	38.0		ug/Kg	☼	102	44 - 120	20	42
Pyrene	21	T	29.5	70.8	T	ug/Kg	☼	169	43 - 120	27	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*39 - 120*
Nitrobenzene-d5	*60*		*42 - 120*
Terphenyl-d14	*74*		*35 - 124*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-380348/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380695 — **Prep Batch: 380348**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.52	U	1.6	0.52	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
4,4'-DDE	0.22	U	1.6	0.22	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
4,4'-DDT	0.56	U	1.6	0.56	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Aldrin	0.24	U	1.6	0.24	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
alpha-BHC	0.20	U	1.6	0.20	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
beta-BHC	0.63	U	1.6	0.63	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
delta-BHC	0.38	U	1.6	0.38	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Dieldrin	0.20	U	1.6	0.20	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Endosulfan I	0.17	U	1.6	0.17	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Endosulfan II	0.27	U	1.6	0.27	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Endosulfan sulfate	0.26	U	1.6	0.26	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Endrin	0.29	U	1.6	0.29	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Endrin aldehyde	0.16	U	1.6	0.16	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
gamma-BHC (Lindane)	0.44	U	1.6	0.44	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Heptachlor epoxide	0.40	U	1.6	0.40	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Methoxychlor	0.42	U	3.1	0.42	ug/Kg		07/11/17 10:57	07/13/17 16:29	1
Toxaphene	15	U	63	15	ug/Kg		07/11/17 10:57	07/13/17 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Decachlorobiphenyl	*101*		*63 - 124*	*07/11/17 10:57*	*07/13/17 16:29*	*1*
Tetrachloro-m-xylene	*102*		*59 - 115*	*07/11/17 10:57*	*07/13/17 16:29*	*1*

Lab Sample ID: LCS 280-380348/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380695 — **Prep Batch: 380348**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.3	15.8		ug/Kg		97	69 - 130
4,4'-DDE	16.3	15.3		ug/Kg		94	70 - 130
4,4'-DDT	16.3	15.1		ug/Kg		93	67 - 130
Aldrin	16.3	15.0		ug/Kg		92	69 - 130
alpha-BHC	16.3	15.2		ug/Kg		93	65 - 130

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-380348/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380695 — **Prep Batch: 380348**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	16.3	15.5		ug/Kg		95	62 - 130
delta-BHC	16.3	15.3		ug/Kg		94	67 - 130
Dieldrin	16.3	15.7		ug/Kg		97	70 - 130
Endosulfan I	16.3	15.3		ug/Kg		94	67 - 130
Endosulfan II	16.3	14.8		ug/Kg		91	69 - 130
Endosulfan sulfate	16.3	15.3		ug/Kg		94	69 - 130
Endrin	16.3	15.6		ug/Kg		96	69 - 130
Endrin aldehyde	16.3	14.0		ug/Kg		86	41 - 130
gamma-BHC (Lindane)	16.3	15.4		ug/Kg		94	66 - 130
Heptachlor epoxide	16.3	15.4		ug/Kg		95	70 - 130
Methoxychlor	16.3	14.5		ug/Kg		89	65 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Decachlorobiphenyl	*97*		*63 - 124*
Tetrachloro-m-xylene	*100*		*59 - 115*

Lab Sample ID: 280-98955-3 MS — **Client Sample ID: B3BLP7**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380695 — **Prep Batch: 380348**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.55	U	15.5	14.1		ug/Kg	☼	91	69 - 126
4,4'-DDE	0.24	U	15.5	13.7		ug/Kg	☼	89	71 - 116
4,4'-DDT	0.59	U	15.5	14.6		ug/Kg	☼	94	67 - 132
Aldrin	0.25	U	15.5	13.4		ug/Kg	☼	86	69 - 116
alpha-BHC	0.21	U	15.5	13.5		ug/Kg	☼	87	65 - 122
beta-BHC	0.66	U	15.5	13.7		ug/Kg	☼	88	62 - 121
delta-BHC	0.40	U	15.5	13.5		ug/Kg	☼	87	67 - 122
Dieldrin	0.21	U	15.5	14.1		ug/Kg	☼	91	71 - 120
Endosulfan I	0.18	U	15.5	13.6		ug/Kg	☼	88	67 - 115
Endosulfan II	0.29	U	15.5	13.3		ug/Kg	☼	86	69 - 120
Endosulfan sulfate	0.28	U	15.5	13.7		ug/Kg	☼	88	69 - 126
Endrin	0.31	U	15.5	14.0		ug/Kg	☼	91	69 - 129
Endrin aldehyde	0.17	U	15.5	12.6		ug/Kg	☼	81	41 - 128
gamma-BHC (Lindane)	0.46	U	15.5	13.7		ug/Kg	☼	89	66 - 120
Heptachlor epoxide	0.43	U	15.5	14.0		ug/Kg	☼	90	71 - 119
Methoxychlor	0.45	U	15.5	14.4		ug/Kg	☼	93	65 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Decachlorobiphenyl	*89*		*63 - 124*
Tetrachloro-m-xylene	*91*		*59 - 115*

Lab Sample ID: 280-98955-3 MSD — **Client Sample ID: B3BLP7**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380695 — **Prep Batch: 380348**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.55	U	16.4	14.8		ug/Kg	☼	91	69 - 126	5	30

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 280-98955-3 MSD — **Client Sample ID: B3BLP7**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380695 — **Prep Batch: 380348**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDE	0.24	U	16.4	14.3		ug/Kg	☼	88	71 - 116	4	30
4,4'-DDT	0.59	U	16.4	15.2		ug/Kg	☼	93	67 - 132	3	30
Aldrin	0.25	U	16.4	14.1		ug/Kg	☼	86	69 - 116	5	50
alpha-BHC	0.21	U	16.4	14.2		ug/Kg	☼	87	65 - 122	5	30
beta-BHC	0.66	U	16.4	14.5		ug/Kg	☼	89	62 - 121	6	30
delta-BHC	0.40	U	16.4	14.2		ug/Kg	☼	87	67 - 122	5	30
Dieldrin	0.21	U	16.4	14.7		ug/Kg	☼	90	71 - 120	4	30
Endosulfan I	0.18	U	16.4	14.3		ug/Kg	☼	87	67 - 115	5	30
Endosulfan II	0.29	U	16.4	13.6		ug/Kg	☼	83	69 - 120	3	30
Endosulfan sulfate	0.28	U	16.4	13.7		ug/Kg	☼	84	69 - 126	0	30
Endrin	0.31	U	16.4	14.6		ug/Kg	☼	89	69 - 129	4	30
Endrin aldehyde	0.17	U	16.4	12.6		ug/Kg	☼	77	41 - 128	0	30
gamma-BHC (Lindane)	0.46	U	16.4	14.5		ug/Kg	☼	88	66 - 120	5	30
Heptachlor epoxide	0.43	U	16.4	14.6		ug/Kg	☼	89	71 - 119	4	30
Methoxychlor	0.45	U	16.4	13.7		ug/Kg	☼	84	65 - 139	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Decachlorobiphenyl	*88*		*63 - 124*
Tetrachloro-m-xylene	*91*		*59 - 115*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 280-380234/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380574 — **Prep Batch: 380234**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel (C10-C28)	1110	J	3700	630	ug/Kg		07/10/17 12:15	07/12/17 17:20	1
Kerosene (C8-C12)	920	U	3700	920	ug/Kg		07/10/17 12:15	07/12/17 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*49 - 140*	*07/10/17 12:15*	*07/12/17 17:20*	*1*

Lab Sample ID: LCS 280-380234/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380574 — **Prep Batch: 380234**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel (C10-C28)			62500	56700		ug/Kg		91	53 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*100*		*49 - 140*

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 280-380234/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380574 — **Prep Batch: 380234**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Kerosene (C8-C12)			30500	20600		ug/Kg		68	56 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*93*		*49 - 140*

Lab Sample ID: 280-98955-2 MS — **Client Sample ID: B3BLP9**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380574 — **Prep Batch: 380234**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel (C10-C28)	2700	J B	61800	52900		ug/Kg	☼	81	56 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*96*		*49 - 140*

Lab Sample ID: 280-98955-2 MS — **Client Sample ID: B3BLP9**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380574 — **Prep Batch: 380234**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Kerosene (C8-C12)	1400	J	33800	23900		ug/Kg	☼	67	56 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*103*		*49 - 140*

Lab Sample ID: 280-98955-2 MSD — **Client Sample ID: B3BLP9**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380574 — **Prep Batch: 380234**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel (C10-C28)	2700	J B	65200	53200		ug/Kg	☼	78	56 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*98*		*49 - 140*

Lab Sample ID: 280-98955-2 MSD — **Client Sample ID: B3BLP9**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380574 — **Prep Batch: 380234**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Kerosene (C8-C12)	1400	J	32600	25500		ug/Kg	☼	74	56 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*97*		*49 - 140*

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-380035/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380372 — **Prep Batch: 380035**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	733	U	1500	733	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Arsenic	665	U	2000	665	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Barium	125.7	B	1000	104	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Beryllium	33.0	U	500	33.0	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Boron	980	U	10000	980	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Cadmium	41.0	U	500	41.0	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Chromium	59.70	B	1500	58.0	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Cobalt	100	U	1000	100	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Copper	217	U	2000	217	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Manganese	100	U	1000	100	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Molybdenum	260	U	2000	260	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Nickel	132	U	4000	132	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Selenium	860	U	1500	860	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Silver	160	U	1000	160	ug/Kg		07/07/17 13:30	07/10/17 14:51	1
Vanadium	94.0	U	2000	94.0	ug/Kg		07/07/17 13:30	07/10/17 14:51	1

Lab Sample ID: MB 280-380035/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380507 — **Prep Batch: 380035**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	398	U	3000	398	ug/Kg		07/07/17 13:30	07/11/17 16:43	1

Lab Sample ID: MB 280-380035/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380643 — **Prep Batch: 380035**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	310	U	900	310	ug/Kg		07/07/17 13:30	07/12/17 17:21	1

Lab Sample ID: LCS 280-380035/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380372 — **Prep Batch: 380035**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50000	50410		ug/Kg		101	80 - 120
Arsenic	100000	100200		ug/Kg		100	80 - 120
Barium	200000	197600		ug/Kg		99	80 - 120
Beryllium	5000	4994		ug/Kg		100	80 - 120
Boron	100000	98260		ug/Kg		98	80 - 120
Cadmium	10000	9991		ug/Kg		100	80 - 120
Chromium	20000	20290		ug/Kg		101	80 - 120
Cobalt	50000	47510		ug/Kg		95	80 - 120
Copper	25000	24580		ug/Kg		98	80 - 120
Manganese	50000	49340		ug/Kg		99	80 - 120
Molybdenum	100000	98960		ug/Kg		99	80 - 120
Nickel	50000	48560		ug/Kg		97	80 - 120
Selenium	200000	191300		ug/Kg		96	80 - 120
Silver	5000	5094		ug/Kg		102	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Lab Sample ID: LCS 280-380035/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380372 — **Prep Batch: 380035**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	50000	49000		ug/Kg		98	80 - 120

Lab Sample ID: LCS 280-380035/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380507 — **Prep Batch: 380035**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	50000	50840		ug/Kg		102	80 - 120

Lab Sample ID: LCS 280-380035/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380643 — **Prep Batch: 380035**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50000	50000		ug/Kg		100	80 - 120

Lab Sample ID: 280-98955-4 MS — **Client Sample ID: B3BLR5**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380372 — **Prep Batch: 380035**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	545	U N	47300	18850	N	ug/Kg	☼	40	75 - 125
Arsenic	4600		94600	90770		ug/Kg	☼	91	75 - 125
Barium	81300		189000	256500		ug/Kg	☼	93	75 - 125
Beryllium	528		4730	5166		ug/Kg	☼	98	75 - 125
Boron	1020	B	94600	87730		ug/Kg	☼	92	75 - 125
Cadmium	45.3	B	9460	8850		ug/Kg	☼	93	75 - 125
Chromium	11600		18900	30320		ug/Kg	☼	99	75 - 125
Cobalt	16600		47300	58820		ug/Kg	☼	89	75 - 125
Copper	25200		23700	46370		ug/Kg	☼	90	75 - 125
Manganese	457000		47300	533200	X	ug/Kg	☼	161	75 - 125
Molybdenum	213	B	94600	84530		ug/Kg	☼	89	75 - 125
Nickel	14500		47300	57210		ug/Kg	☼	90	75 - 125
Selenium	639	U	189000	166500		ug/Kg	☼	88	75 - 125
Silver	130	B	4730	4750		ug/Kg	☼	98	75 - 125
Vanadium	71100		47300	122800		ug/Kg	☼	109	75 - 125

Lab Sample ID: 280-98955-4 MS — **Client Sample ID: B3BLR5**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380507 — **Prep Batch: 380035**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	60600		47300	104300		ug/Kg	☼	92	75 - 125

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Lab Sample ID: 280-98955-4 MS — **Client Sample ID: B3BLR5**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380643 — **Prep Batch: 380035**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	6810		47300	47810		ug/Kg	☼	87	75 - 125

Lab Sample ID: 280-98955-4 MSD — **Client Sample ID: B3BLR5**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380372 — **Prep Batch: 380035**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	545	U N	40900	14980	N	ug/Kg	☼	37	75 - 125	23	35
Arsenic	4600		81900	75570		ug/Kg	☼	87	75 - 125	18	35
Barium	81300		164000	233900		ug/Kg	☼	93	75 - 125	9	35
Beryllium	528		4090	4354		ug/Kg	☼	93	75 - 125	17	35
Boron	1020	B	81900	73340		ug/Kg	☼	88	75 - 125	18	35
Cadmium	45.3	B	8190	7384		ug/Kg	☼	90	75 - 125	18	35
Chromium	11600		16400	25960		ug/Kg	☼	88	75 - 125	15	35
Cobalt	16600		40900	51210		ug/Kg	☼	84	75 - 125	14	35
Copper	25200		20500	42480		ug/Kg	☼	85	75 - 125	9	35
Manganese	457000		40900	512600	X	ug/Kg	☼	136	75 - 125	4	35
Molybdenum	213	B	81900	70820		ug/Kg	☼	86	75 - 125	18	35
Nickel	14500		40900	49250		ug/Kg	☼	85	75 - 125	15	35
Selenium	639	U	164000	138000		ug/Kg	☼	84	75 - 125	19	35
Silver	130	B	4090	3926		ug/Kg	☼	93	75 - 125	19	35
Vanadium	71100		40900	112000		ug/Kg	☼	100	75 - 125	9	35

Lab Sample ID: 280-98955-4 MSD — **Client Sample ID: B3BLR5**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380507 — **Prep Batch: 380035**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	60600		40900	95250		ug/Kg	☼	85	75 - 125	9	35

Lab Sample ID: 280-98955-4 MSD — **Client Sample ID: B3BLR5**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380643 — **Prep Batch: 380035**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	6810		40900	42260		ug/Kg	☼	87	75 - 125	12	35

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 280-380388/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380511 — **Prep Batch: 380388**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.5	U	17.0	5.5	ug/Kg		07/11/17 12:13	07/11/17 15:26	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

Lab Sample ID: LCS 280-380388/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 380511 — **Prep Batch: 380388**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			333	333.2		ug/Kg		100	80 - 120		

Lab Sample ID: 280-98955-4 MS — **Client Sample ID: B3BLR5**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380511 — **Prep Batch: 380388**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	6.8	B	430	460.8		ug/Kg	☼	105	75 - 125		

Lab Sample ID: 280-98955-4 MSD — **Client Sample ID: B3BLR5**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 380511 — **Prep Batch: 380388**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	6.8	B	406	436.3		ug/Kg	☼	106	75 - 125	5	35

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

GC/MS Semi VOA

Prep Batch: 380235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	3546	
280-98955-2	B3BLP9	Total/NA	Soil	3546	
280-98955-3	B3BLP7	Total/NA	Soil	3546	
280-98955-4	B3BLR5	Total/NA	Soil	3546	
280-98955-5	B3BLT3	Total/NA	Soil	3546	
280-98955-6	B3BLR9	Total/NA	Soil	3546	
280-98955-7	B3BLT1	Total/NA	Soil	3546	
280-98955-8	B3BLP3	Total/NA	Soil	3546	
280-98955-9	B3BLR3	Total/NA	Soil	3546	
280-98955-10	B3BLR1	Total/NA	Soil	3546	
280-98955-11	B3BLP1	Total/NA	Soil	3546	
280-98955-12	B3BLN9	Total/NA	Soil	3546	
280-98955-13	B3BLN7	Total/NA	Soil	3546	
280-98955-14	B3BLP5	Total/NA	Soil	3546	
MB 280-380235/1-A	Method Blank	Total/NA	Solid	3546	
LCS 280-380235/2-A	Lab Control Sample	Total/NA	Solid	3546	
280-98955-1 MS	B3BLR7	Total/NA	Soil	3546	
280-98955-1 MSD	B3BLR7	Total/NA	Soil	3546	

Analysis Batch: 380687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	8270D SIM	380235
280-98955-2	B3BLP9	Total/NA	Soil	8270D SIM	380235
280-98955-3	B3BLP7	Total/NA	Soil	8270D SIM	380235
280-98955-4	B3BLR5	Total/NA	Soil	8270D SIM	380235
280-98955-5	B3BLT3	Total/NA	Soil	8270D SIM	380235
280-98955-6	B3BLR9	Total/NA	Soil	8270D SIM	380235
280-98955-7	B3BLT1	Total/NA	Soil	8270D SIM	380235
280-98955-8	B3BLP3	Total/NA	Soil	8270D SIM	380235
280-98955-9	B3BLR3	Total/NA	Soil	8270D SIM	380235
280-98955-10	B3BLR1	Total/NA	Soil	8270D SIM	380235
280-98955-11	B3BLP1	Total/NA	Soil	8270D SIM	380235
280-98955-12	B3BLN9	Total/NA	Soil	8270D SIM	380235
280-98955-13	B3BLN7	Total/NA	Soil	8270D SIM	380235
280-98955-14	B3BLP5	Total/NA	Soil	8270D SIM	380235
MB 280-380235/1-A	Method Blank	Total/NA	Solid	8270D SIM	380235
LCS 280-380235/2-A	Lab Control Sample	Total/NA	Solid	8270D SIM	380235
280-98955-1 MS	B3BLR7	Total/NA	Soil	8270D SIM	380235
280-98955-1 MSD	B3BLR7	Total/NA	Soil	8270D SIM	380235

GC Semi VOA

Prep Batch: 380234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	3550C	
280-98955-2	B3BLP9	Total/NA	Soil	3550C	
280-98955-3	B3BLP7	Total/NA	Soil	3550C	
280-98955-4	B3BLR5	Total/NA	Soil	3550C	
280-98955-5	B3BLT3	Total/NA	Soil	3550C	
280-98955-6	B3BLR9	Total/NA	Soil	3550C	

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

GC Semi VOA (Continued)

Prep Batch: 380234 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-7	B3BLT1	Total/NA	Soil	3550C	
280-98955-8	B3BLP3	Total/NA	Soil	3550C	
280-98955-9	B3BLR3	Total/NA	Soil	3550C	
280-98955-10	B3BLR1	Total/NA	Soil	3550C	
280-98955-11	B3BLP1	Total/NA	Soil	3550C	
280-98955-12	B3BLN9	Total/NA	Soil	3550C	
280-98955-13	B3BLN7	Total/NA	Soil	3550C	
280-98955-14	B3BLP5	Total/NA	Soil	3550C	
MB 280-380234/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 280-380234/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 280-380234/3-A	Lab Control Sample	Total/NA	Solid	3550C	
280-98955-2 MS	B3BLP9	Total/NA	Soil	3550C	
280-98955-2 MS	B3BLP9	Total/NA	Soil	3550C	
280-98955-2 MSD	B3BLP9	Total/NA	Soil	3550C	
280-98955-2 MSD	B3BLP9	Total/NA	Soil	3550C	

Prep Batch: 380348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	3550C	
280-98955-2	B3BLP9	Total/NA	Soil	3550C	
280-98955-3	B3BLP7	Total/NA	Soil	3550C	
280-98955-4	B3BLR5	Total/NA	Soil	3550C	
280-98955-5	B3BLT3	Total/NA	Soil	3550C	
280-98955-6	B3BLR9	Total/NA	Soil	3550C	
280-98955-7	B3BLT1	Total/NA	Soil	3550C	
280-98955-8	B3BLP3	Total/NA	Soil	3550C	
280-98955-9	B3BLR3	Total/NA	Soil	3550C	
280-98955-10	B3BLR1	Total/NA	Soil	3550C	
280-98955-11	B3BLP1	Total/NA	Soil	3550C	
280-98955-12	B3BLN9	Total/NA	Soil	3550C	
280-98955-13	B3BLN7	Total/NA	Soil	3550C	
280-98955-14	B3BLP5	Total/NA	Soil	3550C	
MB 280-380348/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 280-380348/2-A	Lab Control Sample	Total/NA	Solid	3550C	
280-98955-3 MS	B3BLP7	Total/NA	Soil	3550C	
280-98955-3 MSD	B3BLP7	Total/NA	Soil	3550C	

Analysis Batch: 380574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	NWTPH-Dx	380234
280-98955-2	B3BLP9	Total/NA	Soil	NWTPH-Dx	380234
280-98955-3	B3BLP7	Total/NA	Soil	NWTPH-Dx	380234
280-98955-4	B3BLR5	Total/NA	Soil	NWTPH-Dx	380234
280-98955-5	B3BLT3	Total/NA	Soil	NWTPH-Dx	380234
280-98955-6	B3BLR9	Total/NA	Soil	NWTPH-Dx	380234
280-98955-7	B3BLT1	Total/NA	Soil	NWTPH-Dx	380234
280-98955-8	B3BLP3	Total/NA	Soil	NWTPH-Dx	380234
280-98955-9	B3BLR3	Total/NA	Soil	NWTPH-Dx	380234
280-98955-10	B3BLR1	Total/NA	Soil	NWTPH-Dx	380234
280-98955-11	B3BLP1	Total/NA	Soil	NWTPH-Dx	380234
280-98955-12	B3BLN9	Total/NA	Soil	NWTPH-Dx	380234

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

GC Semi VOA (Continued)

Analysis Batch: 380574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-13	B3BLN7	Total/NA	Soil	NWTPH-Dx	380234
280-98955-14	B3BLP5	Total/NA	Soil	NWTPH-Dx	380234
MB 280-380234/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	380234
LCS 280-380234/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	380234
LCS 280-380234/3-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	380234
280-98955-2 MS	B3BLP9	Total/NA	Soil	NWTPH-Dx	380234
280-98955-2 MS	B3BLP9	Total/NA	Soil	NWTPH-Dx	380234
280-98955-2 MSD	B3BLP9	Total/NA	Soil	NWTPH-Dx	380234
280-98955-2 MSD	B3BLP9	Total/NA	Soil	NWTPH-Dx	380234

Analysis Batch: 380695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	8081B	380348
280-98955-2	B3BLP9	Total/NA	Soil	8081B	380348
280-98955-3	B3BLP7	Total/NA	Soil	8081B	380348
280-98955-4	B3BLR5	Total/NA	Soil	8081B	380348
280-98955-5	B3BLT3	Total/NA	Soil	8081B	380348
280-98955-6	B3BLR9	Total/NA	Soil	8081B	380348
280-98955-7	B3BLT1	Total/NA	Soil	8081B	380348
280-98955-8	B3BLP3	Total/NA	Soil	8081B	380348
280-98955-9	B3BLR3	Total/NA	Soil	8081B	380348
280-98955-10	B3BLR1	Total/NA	Soil	8081B	380348
280-98955-11	B3BLP1	Total/NA	Soil	8081B	380348
280-98955-12	B3BLN9	Total/NA	Soil	8081B	380348
280-98955-13	B3BLN7	Total/NA	Soil	8081B	380348
280-98955-14	B3BLP5	Total/NA	Soil	8081B	380348
MB 280-380348/1-A	Method Blank	Total/NA	Solid	8081B	380348
LCS 280-380348/2-A	Lab Control Sample	Total/NA	Solid	8081B	380348
280-98955-3 MS	B3BLP7	Total/NA	Soil	8081B	380348
280-98955-3 MSD	B3BLP7	Total/NA	Soil	8081B	380348

Metals

Prep Batch: 380035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	3050B	
280-98955-2	B3BLP9	Total/NA	Soil	3050B	
280-98955-3	B3BLP7	Total/NA	Soil	3050B	
280-98955-4	B3BLR5	Total/NA	Soil	3050B	
280-98955-5	B3BLT3	Total/NA	Soil	3050B	
280-98955-6	B3BLR9	Total/NA	Soil	3050B	
280-98955-7	B3BLT1	Total/NA	Soil	3050B	
280-98955-8	B3BLP3	Total/NA	Soil	3050B	
280-98955-9	B3BLR3	Total/NA	Soil	3050B	
280-98955-10	B3BLR1	Total/NA	Soil	3050B	
280-98955-11	B3BLP1	Total/NA	Soil	3050B	
280-98955-12	B3BLN9	Total/NA	Soil	3050B	
280-98955-13	B3BLN7	Total/NA	Soil	3050B	
280-98955-14	B3BLP5	Total/NA	Soil	3050B	
MB 280-380035/1-A	Method Blank	Total/NA	Solid	3050B	

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Metals (Continued)

Prep Batch: 380035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-380035/2-A	Lab Control Sample	Total/NA	Solid	3050B	
280-98955-4 MS	B3BLR5	Total/NA	Soil	3050B	
280-98955-4 MSD	B3BLR5	Total/NA	Soil	3050B	

Analysis Batch: 380372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	6010C	380035
280-98955-2	B3BLP9	Total/NA	Soil	6010C	380035
280-98955-3	B3BLP7	Total/NA	Soil	6010C	380035
280-98955-4	B3BLR5	Total/NA	Soil	6010C	380035
280-98955-5	B3BLT3	Total/NA	Soil	6010C	380035
280-98955-6	B3BLR9	Total/NA	Soil	6010C	380035
280-98955-7	B3BLT1	Total/NA	Soil	6010C	380035
280-98955-8	B3BLP3	Total/NA	Soil	6010C	380035
280-98955-9	B3BLR3	Total/NA	Soil	6010C	380035
280-98955-10	B3BLR1	Total/NA	Soil	6010C	380035
280-98955-11	B3BLP1	Total/NA	Soil	6010C	380035
280-98955-12	B3BLN9	Total/NA	Soil	6010C	380035
280-98955-13	B3BLN7	Total/NA	Soil	6010C	380035
280-98955-14	B3BLP5	Total/NA	Soil	6010C	380035
MB 280-380035/1-A	Method Blank	Total/NA	Solid	6010C	380035
LCS 280-380035/2-A	Lab Control Sample	Total/NA	Solid	6010C	380035
280-98955-4 MS	B3BLR5	Total/NA	Soil	6010C	380035
280-98955-4 MSD	B3BLR5	Total/NA	Soil	6010C	380035

Prep Batch: 380388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	7471B	
280-98955-2	B3BLP9	Total/NA	Soil	7471B	
280-98955-3	B3BLP7	Total/NA	Soil	7471B	
280-98955-4	B3BLR5	Total/NA	Soil	7471B	
280-98955-5	B3BLT3	Total/NA	Soil	7471B	
280-98955-6	B3BLR9	Total/NA	Soil	7471B	
280-98955-7	B3BLT1	Total/NA	Soil	7471B	
280-98955-8	B3BLP3	Total/NA	Soil	7471B	
280-98955-9	B3BLR3	Total/NA	Soil	7471B	
280-98955-10	B3BLR1	Total/NA	Soil	7471B	
280-98955-11	B3BLP1	Total/NA	Soil	7471B	
280-98955-12	B3BLN9	Total/NA	Soil	7471B	
280-98955-13	B3BLN7	Total/NA	Soil	7471B	
280-98955-14	B3BLP5	Total/NA	Soil	7471B	
MB 280-380388/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 280-380388/2-A	Lab Control Sample	Total/NA	Solid	7471B	
280-98955-4 MS	B3BLR5	Total/NA	Soil	7471B	
280-98955-4 MSD	B3BLR5	Total/NA	Soil	7471B	

Analysis Batch: 380507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	6010C	380035
280-98955-2	B3BLP9	Total/NA	Soil	6010C	380035
280-98955-3	B3BLP7	Total/NA	Soil	6010C	380035

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Metals (Continued)

Analysis Batch: 380507 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-4	B3BLR5	Total/NA	Soil	6010C	380035
280-98955-5	B3BLT3	Total/NA	Soil	6010C	380035
280-98955-6	B3BLR9	Total/NA	Soil	6010C	380035
280-98955-7	B3BLT1	Total/NA	Soil	6010C	380035
280-98955-8	B3BLP3	Total/NA	Soil	6010C	380035
280-98955-9	B3BLR3	Total/NA	Soil	6010C	380035
280-98955-10	B3BLR1	Total/NA	Soil	6010C	380035
280-98955-11	B3BLP1	Total/NA	Soil	6010C	380035
280-98955-12	B3BLN9	Total/NA	Soil	6010C	380035
280-98955-13	B3BLN7	Total/NA	Soil	6010C	380035
280-98955-14	B3BLP5	Total/NA	Soil	6010C	380035
MB 280-380035/1-A	Method Blank	Total/NA	Solid	6010C	380035
LCS 280-380035/2-A	Lab Control Sample	Total/NA	Solid	6010C	380035
280-98955-4 MS	B3BLR5	Total/NA	Soil	6010C	380035
280-98955-4 MSD	B3BLR5	Total/NA	Soil	6010C	380035

Analysis Batch: 380511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	7471B	380388
280-98955-2	B3BLP9	Total/NA	Soil	7471B	380388
280-98955-3	B3BLP7	Total/NA	Soil	7471B	380388
280-98955-4	B3BLR5	Total/NA	Soil	7471B	380388
280-98955-5	B3BLT3	Total/NA	Soil	7471B	380388
280-98955-6	B3BLR9	Total/NA	Soil	7471B	380388
280-98955-7	B3BLT1	Total/NA	Soil	7471B	380388
280-98955-8	B3BLP3	Total/NA	Soil	7471B	380388
280-98955-9	B3BLR3	Total/NA	Soil	7471B	380388
280-98955-10	B3BLR1	Total/NA	Soil	7471B	380388
280-98955-11	B3BLP1	Total/NA	Soil	7471B	380388
280-98955-12	B3BLN9	Total/NA	Soil	7471B	380388
280-98955-13	B3BLN7	Total/NA	Soil	7471B	380388
280-98955-14	B3BLP5	Total/NA	Soil	7471B	380388
MB 280-380388/1-A	Method Blank	Total/NA	Solid	7471B	380388
LCS 280-380388/2-A	Lab Control Sample	Total/NA	Solid	7471B	380388
280-98955-4 MS	B3BLR5	Total/NA	Soil	7471B	380388
280-98955-4 MSD	B3BLR5	Total/NA	Soil	7471B	380388

Analysis Batch: 380643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	6010C	380035
280-98955-2	B3BLP9	Total/NA	Soil	6010C	380035
280-98955-3	B3BLP7	Total/NA	Soil	6010C	380035
280-98955-4	B3BLR5	Total/NA	Soil	6010C	380035
280-98955-5	B3BLT3	Total/NA	Soil	6010C	380035
280-98955-6	B3BLR9	Total/NA	Soil	6010C	380035
280-98955-7	B3BLT1	Total/NA	Soil	6010C	380035
280-98955-8	B3BLP3	Total/NA	Soil	6010C	380035
280-98955-9	B3BLR3	Total/NA	Soil	6010C	380035
280-98955-10	B3BLR1	Total/NA	Soil	6010C	380035
280-98955-11	B3BLP1	Total/NA	Soil	6010C	380035
280-98955-12	B3BLN9	Total/NA	Soil	6010C	380035

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Metals (Continued)

Analysis Batch: 380643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-13	B3BLN7	Total/NA	Soil	6010C	380035
280-98955-14	B3BLP5	Total/NA	Soil	6010C	380035
MB 280-380035/1-A	Method Blank	Total/NA	Solid	6010C	380035
LCS 280-380035/2-A	Lab Control Sample	Total/NA	Solid	6010C	380035
280-98955-4 MS	B3BLR5	Total/NA	Soil	6010C	380035
280-98955-4 MSD	B3BLR5	Total/NA	Soil	6010C	380035

General Chemistry

Analysis Batch: 380105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98955-1	B3BLR7	Total/NA	Soil	D 2216	
280-98955-2	B3BLP9	Total/NA	Soil	D 2216	
280-98955-3	B3BLP7	Total/NA	Soil	D 2216	
280-98955-4	B3BLR5	Total/NA	Soil	D 2216	
280-98955-5	B3BLT3	Total/NA	Soil	D 2216	
280-98955-6	B3BLR9	Total/NA	Soil	D 2216	
280-98955-7	B3BLT1	Total/NA	Soil	D 2216	
280-98955-8	B3BLP3	Total/NA	Soil	D 2216	
280-98955-9	B3BLR3	Total/NA	Soil	D 2216	
280-98955-10	B3BLR1	Total/NA	Soil	D 2216	
280-98955-11	B3BLP1	Total/NA	Soil	D 2216	
280-98955-12	B3BLN9	Total/NA	Soil	D 2216	
280-98955-13	B3BLN7	Total/NA	Soil	D 2216	
280-98955-14	B3BLP5	Total/NA	Soil	D 2216	
280-98955-1 DU	B3BLR7	Total/NA	Soil	D 2216	

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(39-120)	(42-120)	(35-124)
280-98955-1	B3BLR7	64	49	73
280-98955-1 MS	B3BLR7	73	60	76
280-98955-1 MSD	B3BLR7	70	60	74
280-98955-2	B3BLP9	65	55	62
280-98955-3	B3BLP7	60	52	54
280-98955-4	B3BLR5	65	54	64
280-98955-5	B3BLT3	58	50	63
280-98955-6	B3BLR9	74	60	90
280-98955-7	B3BLT1	56	48	56
280-98955-8	B3BLP3	63	53	71
280-98955-9	B3BLR3	82	70	106
280-98955-10	B3BLR1	61	50	66
280-98955-11	B3BLP1	57	49	62
280-98955-12	B3BLN9	62	52	61
280-98955-13	B3BLN7	59	49	67
280-98955-14	B3BLP5	58	45	68

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(39-120)	(42-120)	(35-124)
LCS 280-380235/2-A	Lab Control Sample	78	66	78
MB 280-380235/1-A	Method Blank	77	65	83

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(63-124)	(59-115)
280-98955-1	B3BLR7	84	95
280-98955-2	B3BLP9	130 X	97
280-98955-3	B3BLP7	87	90
280-98955-3 MS	B3BLP7	89	91
280-98955-3 MSD	B3BLP7	88	91
280-98955-4	B3BLR5	95	95
280-98955-5	B3BLT3	93	94
280-98955-6	B3BLR9	96	96

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (63-124)	TCX1 (59-115)
280-98955-7	B3BLT1	96	91
280-98955-8	B3BLP3	101	96
280-98955-9	B3BLR3	96	100
280-98955-10	B3BLR1	91	94
280-98955-11	B3BLP1	94	96
280-98955-12	B3BLN9	92	93
280-98955-13	B3BLN7	95	96
280-98955-14	B3BLP5	92	93

Surrogate Legend

DCB = Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (63-124)	TCX1 (59-115)
LCS 280-380348/2-A	Lab Control Sample	97	100
MB 280-380348/1-A	Method Blank	101	102

Surrogate Legend

DCB = Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTPH (49-140)
280-98955-1	B3BLR7	85
280-98955-2	B3BLP9	96
280-98955-2 MS	B3BLP9	96
280-98955-2 MS	B3BLP9	103
280-98955-2 MSD	B3BLP9	98
280-98955-2 MSD	B3BLP9	97
280-98955-3	B3BLP7	94
280-98955-4	B3BLR5	94
280-98955-5	B3BLT3	96
280-98955-6	B3BLR9	93
280-98955-7	B3BLT1	98
280-98955-8	B3BLP3	98
280-98955-9	B3BLR3	94
280-98955-10	B3BLR1	92
280-98955-11	B3BLP1	96
280-98955-12	B3BLN9	95
280-98955-13	B3BLN7	96
280-98955-14	B3BLP5	99

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-049

TestAmerica Job ID: 280-98955-1
SDG: DN0171

Surrogate Legend
OTPH = o-Terphenyl

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**OTPH (49-140)**							
LCS 280-380234/2-A	Lab Control Sample	100							
LCS 280-380234/3-A	Lab Control Sample	93							
MB 280-380234/1-A	Method Blank	82							

Surrogate Legend
OTPH = o-Terphenyl