TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 280-89785-1
TestAmerica Sample Delivery Group: DN0039
Client Project/Site: S17-010 / W17-010 / X17-003
Revision: 1

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

Attn: Mr. Scot Fitzgerald

Darlene Bandy

Authorized for release by:
4/23/2018 7:25:18 PM

Darlene Bandy, Project Manager I
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LINKS

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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.

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SAMPLE ISSUE RESOLUTION (SIR) REPORT

SIR Number: SIR18-0486
Rev. Number: 0
Date Initiated: 02/13/2018

SAMPLE EVENT INFORMATION

SAF NUM(S): W17-010

LABORATORY: TADN

SAMPLING INFORMATION

NUMBER OF SAMPLES: 1

SAMPLE NUMBERS: B36P38

SAMPLE MATRIX: WATER

SDG NUM(S): DN0039

ISSUE BACKGROUND

CLASS: General Laboratory Direction

TYPE: Addition of Analysis

DESCRIPTION: Due to an oversight 1,4-Dichlorobenzene was not requested in the original VOA analyte list for the sample(s) listed above.

RESOLUTION

PROPOSED RESOLUTION: Re-report the SDG with 1,4-Dichlorobenzene results included for the above sample(s)

FINAL RESOLUTION: Accept proposed resolution

SUBMITTED BY:

FITZGERALD, SL 02/13/2018

ACCEPTED BY:

BANDY, DF 02/13/2018

Job ID: 280-89785-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: CH2M Hill Plateau Remediation Company

Job Number: 280-89785-1

SDG #: DN0039
SAF#(s): S17-010 / W17-010 / X17-003

Date SDG Closed: October 24, 2016
Data Deliverable: 15 Day / Summary

With 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. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

LCS/LCSD = Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike/Matrix Spike Duplicate

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

For volatile organic and extractable analyses, the laboratory is not able to achieve project specified QC limits for several analytes. Per CHPRC direction, data have been evaluated using laboratory statistical limits in lieu of project specified limits. All analytes met laboratory statistical limits, unless otherwise detailed in the individual sections below.

Revision 1 - 4/19/2018
Revision 1 was created to add 1,4-Dichlorobenzene to sample B36P38 (280-89785-9) as an analyte for VOCs 8260B. Please note that this analyte was appended to the end of the analyte list for the MB, LCS, and sample.

RECEIPT
The samples were received on 10/21/2016 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5º C.

8260B - Volatile Organic Compounds (GC/MS)
Methylene Chloride, a common laboratory contaminant, was detected in method blank MB 280-349556/6 at a level that was above the method detection limit (MDL) but below the reporting limit (RL). The value should be considered an estimate, and has been flagged "J". Because the concentration in the method blank was not present at a level greater than the RL, corrective action is deemed unnecessary. If the associated samples reported a result above the MDL and/or RL, the result has been flagged "B".

The LCS associated with analysis batch 349556 exhibited the percent recovery outside the control limits, biased high, for Acrolein, and associated sample results have been flagged "o". In addition, the MS/MSD performed on sample B36NJ4 (280-89785-2) in analysis batch 349556 also exhibited percent recoveries outside the control limits, biased high, for Acrolein, and associated sample results have been flagged "T". The samples associated with this LCS and MS/MSD were non-detect for the affected analyte; therefore, corrective action is deemed unnecessary.

No additional analytical or quality issues were noted.

8270D - Semivolatile Organic Compounds (GC/MS)
The Chain of Custody requests "8270_SVOA_GCMS_IX: COMMON REV 1" analysis for sample B36NJ4 (280-89785-2). Service List "8270_SVOA_GCMS_IX: COMMON REV 1" includes Kepone, Hexachlorophene and Tributyl phosphate, and while TestAmerica Denver holds Washington State (WDOE) accreditation for method 8270D, these compounds are not on the accreditation certificate at this time. As instructed by the client, the laboratory proceeded with the requested analysis, reporting Hexachlorophene and Tributyl phosphate as

Job ID: 280-89785-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

calibrated compounds and Kepone as a targeted TIC.

No additional analytical or quality issues were noted.

9020B - Total Organic Halogens

The MS/MSD performed on sample B36NJ4 (280-89785-2) in batch 351886 exhibited percent recoveries outside the control limits, and associated sample results have been flagged “N”. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

A continuing calibration verification (CCV) associated with samples B36PD6 (280-89785-4) and B36PD8 (280-89785-5) in batch 351886 recovered above the upper control limit. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported.

No additional analytical or quality issues were noted.

9060A - Total Organic Carbon

Total Organic Carbon was detected in method blank MB 280-350757/35 at a level that was above the method detection limit (MDL) but below the reporting limit (RL). The value should be considered an estimate, and has been flagged “B”. Because the concentration in the method blank was not present at a level greater than half the RL, corrective action is deemed unnecessary. If the associated samples reported a result above the MDL and/or RL and the method blank concentration was greater than 5% of the sample concentration, the result has been flagged “C”.

No additional analytical or quality issues were noted.

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:

Darlene Bandy
Project Manager

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 280-89785-1
SDG Number: DN0039

Login Number: 89785
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.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	0.5°C
Cooler Temperature is recorded.	True	
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.	N/A	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S17-010-271 Page 1 of 1

Collector	Dave Floyd CHPRC DNC039	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S17-010	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	SURV, OCTOBER 2016	**Logbook No.**	HNF-N-506 89137	**Ice Chest No.**	GWS-338
Shipped To (Lab)	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	777520597079
Protocol	CERCLA	**Priority:**	15 Days **PRIORITY**	**Offsite Property No.**	7186

POSSIBLE SAMPLE HAZARDS/REMARKS

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B36V06	N	W	OCT 19 2016	1341	4x40-mL aGs*	8260_VOA_GCMS: COMMON; 8260_VOA_GCMS: GW 01	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Dave Floyd CHPRC		OCT 19 2016 1442	SSU-1		OCT 19 2016 1442
SSU #1		OCT 20 2016 1130	~~FEDEX~~ THE 10-21-16	Troy Bacon CHPRC	OCT 20 2016 1130
Troy Bacon CHPRC		OCT 20 2016 1400	FEDEX		
FedEx		10/21/16 1000	Josh True		10/21/16 1000

Matrix *

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

FINAL SAMPLE DISPOSITION Disposal Method (e.g., *Return to customer, per lab procedure, used in process*) Disposed By Date/Time

PRINTED ON 8/31/2016

0.5+0.0 IR#5 transferred by JT 10/21/16

FSR ID = FSR36455

A-6004-842 (REV 2)

165. 89

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W17-010-091**

Collector	Kevin Patterson CHPRC DN0039	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W17-010	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, OCTOBER 2016	**Logbook No.**	HNF-N-506 91/10	**Ice Chest No.**	GWS-338
Shipped To (Lab)	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	777520597079
Protocol	RCRA	**Priority:**	15 Days **PRIORITY**	**Offsite Property No.**	7186

POSSIBLE SAMPLE HAZARDS/REMARKS

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B36NJ4	N	W	OCT 2 0 2016	0955	4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON REV 1	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B36NJ4	N	W			3x1-L aG	8270_SVOA_GCMS_IX: COMMON REV 1	7/40 Days	Cool <=6C
B36NJ4	N	W			1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2/Cool <=6C
B36NJ4	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B36PD7	N	W			1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2/Cool <=6C
B36PD7	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B36PD6	N	W			1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2/Cool <=6C
B36PD6	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B36PD8	N	W			1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2/Cool <=6C
B36PD8	N	W			1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Kevin Patterson CHPRC	OCT 2 0 2016 1045	Troy Bacon CHPRC Troy L. Bacon	OCT 2 0 2016 1045
Troy Bacon CHPRC Troy L. Bacon	OCT 2 0 2016 1400	FEDEX	
FedEx		Josh True	10/21/16 1000

Matrix *

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

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

PRINTED ON 8/25/2016 **FSR ID = FSR25523** A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X17-003-030**

Page 1 of 1

Collector	Dave Floyd CHPRC DN0039	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	X17-003	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	Groundwater Background Study, October	**Logbook No.**	HNF-N-506 89137	**Ice Chest No.**	GWS-338
Shipped To (Lab)	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	777520597079
Protocol	SURV	**Priority:**	15 Days **PRIORITY**	**Offsite Property No.**	7186

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 INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Batch with A, I, S, and W SAFs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B37035	N	W	OCT 19 2016	1341	4x40-mL aGs*	8260_VOA_GCMS: COMMON	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Dave Floyd CHPRC		OCT 19 2016 1442	SSU-1		OCT 19 2016 1442
SSU #1		OCT 20 2016 1130	Troy Bacon CHPRC	Troy L. Bacon	OCT 20 2016 1130
Troy Bacon CHPRC	Troy L. Bacon	OCT 20 2016 1400	FEDEX		
FedEx			Sosh True		10/21/16 1000

Matrix *

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

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

PRINTED ON 8/25/2016 **FSR ID = FSR36316** A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X17-003-039 Page 1 of 1

Collector	Kevin Patterson CHPRC DN0039	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	X17-003	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	Groundwater Background Study, October	**Logbook No.**	HNF-N-506 91/10	**Ice Chest No.**	GWS-338
Shipped To (Lab)	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7775 2059 7079
Protocol	SURV	**Priority:**	15 Days **PRIORITY**	**Offsite Property No.**	7186

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 INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Batch with A, I, S, and W SAFs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B37036	N	W	OCT 2 0 2016	0955	4x40-mL aGs*	8260_VOA_GCMS: COMMON	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *			
	Kevin Patterson CHPRC		OCT 2 0 2016 1045		Troy Bacon CHPRC	Troy L. Bacon	OCT 2 0 2016 1045	S = Soil	DS = Drum Solids		
Relinquished By	Troy Bacon CHPRC	Troy L. Bacon	OCT 2 0 2016 1400	Received By	FEDEX		Date/Time	SE = Sediment	DL = Drum Liquids		
Relinquished By	FedEx		Date/Time	Received By	John True		10/21/16 1000	SO = Solid	T = Tissue		
Relinquished By			Date/Time	Received By			Date/Time	SL = Sludge	WI = Wipe		
								W = Water	L = Liquid		
								O = Oil	V = Vegetation		
								A = Air	X = Other		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED ON 8/25/2016 FSR ID = FSR36317 A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W17-010-101
		Page 1 of 1

Collector	Dave Wight CHPRC DN0039	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W17-010	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, OCTOBER 2016	**Logbook No.**	HNF-N-506 89/38	**Ice Chest No.**	GWS-338
Shipped To (Lab)	TestAmerica Denver	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	777S205977079
Protocol	RCRA	**Priority:**	15 Days **PRIORITY**	**Offsite Property No.**	7186

POSSIBLE SAMPLE HAZARDS/REMARKS

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B36P41	N	W	OCT 20 2016	0805	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool <=6C
B36P38	N	W	OCT 20 2016	0805	4x40-mL aGs*	8260_VOA_GCMS: COMMON	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Dave Wight CHPRC		OCT 20 2016 1045		Troy Bacon CHPRC		OCT 20 2016 1045
Relinquished By	Troy Bacon CHPRC		OCT 20 2016 1400	Received By	FEDEX		Date/Time
Relinquished By	FedEx		Date/Time	Received By	Josh True		10/21/16 1000
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED ON 8/25/2016 **FSR ID = FSR36423** A-6004-842 (REV 2)

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777520597079

Ship date:		Actual delivery:
Thu 10/20/2016		**Fri 10/21/2016 9:59 am**
richland, WA US	**Delivered** *Signed for by: S.WOODWORTH*	ARVADA, CO US

Travel History

Date/Time	Activity	Location
- 10/21/2016 - Friday		
9:59 am	Delivered	ARVADA, CO
9:47 am	On FedEx vehicle for delivery	ARVADA, CO
7:44 am	At local FedEx facility	ARVADA, CO
5:19 am	At destination sort facility	DENVER, CO
4:12 am	Departed FedEx location	MEMPHIS, TN
12:01 am	Arrived at FedEx location	MEMPHIS, TN
- 10/20/2016 - Thursday		
4:44 pm	Left FedEx origin facility	PASCO, WA
3:23 pm	Picked up	PASCO, WA
2:53 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	777520597079	**Service**	FedEx Priority Overnight
Weight	89 lbs / 40.37 kgs	**Dimensions**	28x16x17 in.
Signature services	Direct signature required	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	89 lbs / 40.37 kgs
Terms	Third Party	**Shipper reference**	ptr#7186
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Additional Handling Surcharge, Direct Signature Required
Standard transit	10/21/2016 by 10:30 am		

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Qualifiers

GC/MS 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.
o	LCS, LCSD: Recovery exceeds upper or lower control limits.
T	MS, MSD: Recovery exceeds upper or lower control limits.
B	Analyte was found in the associated method blank as well as in the sample.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
U	Analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
C	The analyte was detected in both the sample and the associated QC blank, and the sample concentration was </= 5X the blank concentration.
N	MS, MSD: Spike recovery is outside acceptance limits.
U	Analyzed for but not detected.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: S17-010 / W17-010 / X17-003

TestAmerica Job ID: 280-89785-1
SDG: DN0039

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
9020B	Organic Halides, Total (TOX)	SW846	TAL DEN
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL DEN
5030B	Purge and Trap	SW846	TAL DEN

Protocol References:

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: S17-010 / W17-010 / X17-003

TestAmerica Job ID: 280-89785-1
SDG: DN0039

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-89785-1	B36V06	Water	10/19/16 13:41	10/21/16 10:00
280-89785-2	B36NJ4	Water	10/20/16 09:55	10/21/16 10:00
280-89785-3	B36PD7	Water	10/20/16 09:55	10/21/16 10:00
280-89785-4	B36PD6	Water	10/20/16 09:55	10/21/16 10:00
280-89785-5	B36PD8	Water	10/20/16 09:55	10/21/16 10:00
280-89785-6	B37035	Water	10/19/16 13:41	10/21/16 10:00
280-89785-7	B37036	Water	10/20/16 09:55	10/21/16 10:00
280-89785-8	B36P41	Water	10/20/16 08:05	10/21/16 10:00
280-89785-9	B36P38	Water	10/20/16 08:05	10/21/16 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: B36V06
Date Collected: 10/19/16 13:41
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			11/02/16 22:40	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			11/02/16 22:40	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			11/02/16 22:40	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			11/02/16 22:40	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			11/02/16 22:40	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			11/02/16 22:40	1
1-Butanol	17	U	60	17	ug/L			11/02/16 22:40	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			11/02/16 22:40	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			11/02/16 22:40	1
Acetone	1.9	U	10	1.9	ug/L			11/02/16 22:40	1
Benzene	0.16	U	1.0	0.16	ug/L			11/02/16 22:40	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			11/02/16 22:40	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			11/02/16 22:40	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			11/02/16 22:40	1
Chloroform	0.16	U	1.0	0.16	ug/L			11/02/16 22:40	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			11/02/16 22:40	1
Ethyl Cyanide	3.7	U	20	3.7	ug/L			11/02/16 22:40	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			11/02/16 22:40	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			11/02/16 22:40	1
Tetrachloroethene	**0.35**	**J**	1.0	0.20	ug/L			11/02/16 22:40	1
Tetrahydrofuran	2.0	U	7.0	2.0	ug/L			11/02/16 22:40	1
Toluene	0.17	U	1.0	0.17	ug/L			11/02/16 22:40	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			11/02/16 22:40	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			11/02/16 22:40	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			11/02/16 22:40	1
Xylenes, Total	0.19	U	2.0	0.19	ug/L			11/02/16 22:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol	*42*		*ug/L*		*5.38*	*67-63-0*		*11/02/16 22:40*	*1*
sec-Butyl Alcohol	*26*	*J*	*ug/L*		*6.64*	*78-92-2*		*11/02/16 22:40*	*1*
4-Amino-5-imidazole carboxamide, tris(trimethylsilyl)- deriv	*1.3*	*N J*	*ug/L*		*14.12*	*1000079-30-4*		*11/02/16 22:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*11/02/16 22:40*	*1*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*11/02/16 22:40*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/02/16 22:40*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*11/02/16 22:40*	*1*

Client Sample ID: B36NJ4
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			11/02/16 23:19	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			11/02/16 23:19	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			11/02/16 23:19	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			11/02/16 23:19	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			11/02/16 23:19	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			11/02/16 23:19	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			11/02/16 23:19	1

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

Client Sample ID: B36NJ4
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00

Lab Sample ID: 280-89785-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47	ug/L			11/02/16 23:19	1
1,2-Dibromoethane	0.18	U	1.0	0.18	ug/L			11/02/16 23:19	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			11/02/16 23:19	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			11/02/16 23:19	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			11/02/16 23:19	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			11/02/16 23:19	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			11/02/16 23:19	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			11/02/16 23:19	1
Acetone	1.9	U	10	1.9	ug/L			11/02/16 23:19	1
Acetonitrile	9.6	U	30	9.6	ug/L			11/02/16 23:19	1
Acrolein	2.8	U T o	20	2.8	ug/L			11/02/16 23:19	1
Acrylonitrile	1.4	U	20	1.4	ug/L			11/02/16 23:19	1
Allyl chloride	0.17	U	2.0	0.17	ug/L			11/02/16 23:19	1
Benzene	0.16	U	1.0	0.16	ug/L			11/02/16 23:19	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			11/02/16 23:19	1
Bromoform	0.19	U	1.0	0.19	ug/L			11/02/16 23:19	1
Bromomethane	0.21	U	2.0	0.21	ug/L			11/02/16 23:19	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			11/02/16 23:19	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			11/02/16 23:19	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			11/02/16 23:19	1
Chloroethane	0.41	U	2.0	0.41	ug/L			11/02/16 23:19	1
Chloroform	0.16	U	1.0	0.16	ug/L			11/02/16 23:19	1
Chloromethane	0.30	U	2.0	0.30	ug/L			11/02/16 23:19	1
Chloroprene	0.21	U	1.0	0.21	ug/L			11/02/16 23:19	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			11/02/16 23:19	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			11/02/16 23:19	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			11/02/16 23:19	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			11/02/16 23:19	1
Dichlorodifluoromethane	0.31	U	2.0	0.31	ug/L			11/02/16 23:19	1
Ethyl Cyanide	3.7	U	20	3.7	ug/L			11/02/16 23:19	1
Ethyl methacrylate	0.86	U	3.0	0.86	ug/L			11/02/16 23:19	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			11/02/16 23:19	1
Iodomethane	0.23	U	1.0	0.23	ug/L			11/02/16 23:19	1
Isobutyl alcohol	37	U	110	37	ug/L			11/02/16 23:19	1
Methacrylonitrile	1.6	U	10	1.6	ug/L			11/02/16 23:19	1
Methyl methacrylate	1.1	U	4.0	1.1	ug/L			11/02/16 23:19	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			11/02/16 23:19	1
Styrene	0.17	U	1.0	0.17	ug/L			11/02/16 23:19	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			11/02/16 23:19	1
Toluene	0.17	U	1.0	0.17	ug/L			11/02/16 23:19	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			11/02/16 23:19	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			11/02/16 23:19	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			11/02/16 23:19	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			11/02/16 23:19	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			11/02/16 23:19	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			11/02/16 23:19	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			11/02/16 23:19	1
Xylenes, Total	0.19	U	2.0	0.19	ug/L			11/02/16 23:19	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					11/02/16 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130		11/02/16 23:19	1
4-Bromofluorobenzene (Surr)	71		70 - 130		11/02/16 23:19	1
Dibromofluoromethane (Surr)	91		70 - 130		11/02/16 23:19	1
Toluene-d8 (Surr)	78		70 - 130		11/02/16 23:19	1

Client Sample ID: B37035
Date Collected: 10/19/16 13:41
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			11/02/16 22:59	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			11/02/16 22:59	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			11/02/16 22:59	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			11/02/16 22:59	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			11/02/16 22:59	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			11/02/16 22:59	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			11/02/16 22:59	1
Acetone	1.9	U	10	1.9	ug/L			11/02/16 22:59	1
Benzene	0.16	U	1.0	0.16	ug/L			11/02/16 22:59	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			11/02/16 22:59	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			11/02/16 22:59	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			11/02/16 22:59	1
Chloroform	0.16	U	1.0	0.16	ug/L			11/02/16 22:59	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			11/02/16 22:59	1
Methylene Chloride	**5.6**	**B**	2.0	0.32	ug/L			11/02/16 22:59	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			11/02/16 22:59	1
Toluene	0.17	U	1.0	0.17	ug/L			11/02/16 22:59	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			11/02/16 22:59	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			11/02/16 22:59	1
Xylenes, Total	0.19	U	2.0	0.19	ug/L			11/02/16 22:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzeneethanamine, N-[(pentafluorophenyl)methylene] -.beta.,4	1.5	N J	ug/L		12.11	55429-85-1		11/02/16 22:59	1
Acetic acid, 2-ethylhexyl ester	1.6	N J	ug/L		12.72	103-09-3		11/02/16 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		11/02/16 22:59	1
4-Bromofluorobenzene (Surr)	88		70 - 130		11/02/16 22:59	1
Dibromofluoromethane (Surr)	104		70 - 130		11/02/16 22:59	1
Toluene-d8 (Surr)	93		70 - 130		11/02/16 22:59	1

Client Sample ID: B37036
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			11/03/16 00:18	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			11/03/16 00:18	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			11/03/16 00:18	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			11/03/16 00:18	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			11/03/16 00:18	1

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

Client Sample ID: B37036
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			11/03/16 00:18	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			11/03/16 00:18	1
Acetone	1.9	U	10	1.9	ug/L			11/03/16 00:18	1
Benzene	0.16	U	1.0	0.16	ug/L			11/03/16 00:18	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			11/03/16 00:18	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			11/03/16 00:18	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			11/03/16 00:18	1
Chloroform	0.16	U	1.0	0.16	ug/L			11/03/16 00:18	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			11/03/16 00:18	1
Methylene Chloride	**5.4**	**B**	2.0	0.32	ug/L			11/03/16 00:18	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			11/03/16 00:18	1
Toluene	0.17	U	1.0	0.17	ug/L			11/03/16 00:18	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			11/03/16 00:18	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			11/03/16 00:18	1
Xylenes, Total	0.19	U	2.0	0.19	ug/L			11/03/16 00:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol	*22*	*J*	*ug/L*		*5.40*	*67-63-0*		*11/03/16 00:18*	*1*
sec-Butyl Alcohol	*24*	*J*	*ug/L*		*6.65*	*78-92-2*		*11/03/16 00:18*	*1*
n-Butanol	*110*		*ug/L*		*7.62*	*71-36-3*		*11/03/16 00:18*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*11/03/16 00:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*11/03/16 00:18*	*1*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*11/03/16 00:18*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*11/03/16 00:18*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*11/03/16 00:18*	*1*

Client Sample ID: B36P38
Date Collected: 10/20/16 08:05
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.34**	**J**	1.0	0.16	ug/L			11/03/16 00:38	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			11/03/16 00:38	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			11/03/16 00:38	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			11/03/16 00:38	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			11/03/16 00:38	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			11/03/16 00:38	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			11/03/16 00:38	1
Acetone	1.9	U	10	1.9	ug/L			11/03/16 00:38	1
Benzene	0.16	U	1.0	0.16	ug/L			11/03/16 00:38	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			11/03/16 00:38	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			11/03/16 00:38	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			11/03/16 00:38	1
Chloroform	0.16	U	1.0	0.16	ug/L			11/03/16 00:38	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			11/03/16 00:38	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			11/03/16 00:38	1
Tetrachloroethene	**0.50**	**J**	1.0	0.20	ug/L			11/03/16 00:38	1
Toluene	0.17	U	1.0	0.17	ug/L			11/03/16 00:38	1
Trichloroethene	**0.25**	**J**	1.0	0.16	ug/L			11/03/16 00:38	1

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

Client Sample ID: B36P38
Date Collected: 10/20/16 08:05
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.10	U	1.0	0.10	ug/L			11/03/16 00:38	1
Xylenes, Total	0.19	U	2.0	0.19	ug/L			11/03/16 00:38	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			11/03/16 00:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Dichlorofluoromethane	*0.22*	*J*	*ug/L*		*4.86*	*75-43-4*		*11/03/16 00:38*	*1*
Trichlorofluoromethane	*0.98*	*J*	*ug/L*		*4.96*	*75-69-4*		*11/03/16 00:38*	*1*
Isopropyl alcohol	*51*		*ug/L*		*5.39*	*67-63-0*		*11/03/16 00:38*	*1*
sec-Butyl Alcohol	*28*	*J*	*ug/L*		*6.65*	*78-92-2*		*11/03/16 00:38*	*1*
n-Butanol	*120*		*ug/L*		*7.62*	*71-36-3*		*11/03/16 00:38*	*1*
Heptadecanoic acid, trimethylsilyl ester	*2.3*	*N J*	*ug/L*		*14.13*	*55517-58-3*		*11/03/16 00:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*11/03/16 00:38*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*11/03/16 00:38*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/03/16 00:38*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*11/03/16 00:38*	*1*

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

Client Sample ID: B36NJ4
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	1.7	U	9.6	1.7	ug/L		10/27/16 13:28	11/16/16 20:37	1
1,2,4-Trichlorobenzene	0.27	U	3.9	0.27	ug/L		10/27/16 13:28	11/16/16 20:37	1
1,2-Dichlorobenzene	0.22	U	3.9	0.22	ug/L		10/27/16 13:28	11/16/16 20:37	1
1,3-Dichlorobenzene	0.29	U	9.6	0.29	ug/L		10/27/16 13:28	11/16/16 20:37	1
1,3-Dinitrobenzene	1.9	U	9.6	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
1,4-Dichlorobenzene	0.31	U	3.9	0.31	ug/L		10/27/16 13:28	11/16/16 20:37	1
1,4-Dioxane	1.6	U	19	1.6	ug/L		10/27/16 13:28	11/16/16 20:37	1
1,4-Naphthoquinone	13	U	48	13	ug/L		10/27/16 13:28	11/16/16 20:37	1
1-Naphthylamine	3.0	U	9.6	3.0	ug/L		10/27/16 13:28	11/16/16 20:37	1
2,3,4,6-Tetrachlorophenol	1.9	U	48	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
2,4,5-Trichlorophenol	0.43	U	9.6	0.43	ug/L		10/27/16 13:28	11/16/16 20:37	1
2,4,6-Trichlorophenol	0.28	U	9.6	0.28	ug/L		10/27/16 13:28	11/16/16 20:37	1
2,4-Dichlorophenol	0.62	U	9.6	0.62	ug/L		10/27/16 13:28	11/16/16 20:37	1
2,4-Dimethylphenol	0.56	U	9.6	0.56	ug/L		10/27/16 13:28	11/16/16 20:37	1
2,4-Dinitrophenol	9.6	U	29	9.6	ug/L		10/27/16 13:28	11/16/16 20:37	1
2,4-Dinitrotoluene	1.6	U	9.6	1.6	ug/L		10/27/16 13:28	11/16/16 20:37	1
2,6-Dichlorophenol	1.3	U	9.6	1.3	ug/L		10/27/16 13:28	11/16/16 20:37	1
2,6-Dinitrotoluene	1.8	U	9.6	1.8	ug/L		10/27/16 13:28	11/16/16 20:37	1
2-Acetylaminofluorene	6.7	U	96	6.7	ug/L		10/27/16 13:28	11/16/16 20:37	1
2-Chloronaphthalene	0.25	U	3.9	0.25	ug/L		10/27/16 13:28	11/16/16 20:37	1
2-Chlorophenol	1.9	U	9.6	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
2-Methylnaphthalene	0.28	U	3.9	0.28	ug/L		10/27/16 13:28	11/16/16 20:37	1
2-Methylphenol	0.94	U	9.6	0.94	ug/L		10/27/16 13:28	11/16/16 20:37	1
2-Naphthylamine	3.0	U	9.6	3.0	ug/L		10/27/16 13:28	11/16/16 20:37	1
2-Nitroaniline	1.7	U	9.6	1.7	ug/L		10/27/16 13:28	11/16/16 20:37	1

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

Client Sample ID: B36NJ4
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00

Lab Sample ID: 280-89785-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	0.38	U	9.6	0.38	ug/L		10/27/16 13:28	11/16/16 20:37	1
2-Picoline	1.2	U	19	1.2	ug/L		10/27/16 13:28	11/16/16 20:37	1
3 & 4 Methylphenol	0.24	U	9.6	0.24	ug/L		10/27/16 13:28	11/16/16 20:37	1
3,3'-Dichlorobenzidine	1.9	U	48	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
3,3'-Dimethylbenzidine	3.9	U	19	3.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
3-Methylcholanthrene	1.6	U	19	1.6	ug/L		10/27/16 13:28	11/16/16 20:37	1
3-Nitroaniline	1.9	U	9.6	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
4,6-Dinitro-2-methylphenol	3.9	U	48	3.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
4-Aminobiphenyl	4.3	U	48	4.3	ug/L		10/27/16 13:28	11/16/16 20:37	1
4-Bromophenyl phenyl ether	0.41	U	9.6	0.41	ug/L		10/27/16 13:28	11/16/16 20:37	1
4-Chloro-3-methylphenol	2.3	U	9.6	2.3	ug/L		10/27/16 13:28	11/16/16 20:37	1
4-Chloroaniline	2.1	U	9.6	2.1	ug/L		10/27/16 13:28	11/16/16 20:37	1
4-Chlorophenyl phenyl ether	1.6	U	9.6	1.6	ug/L		10/27/16 13:28	11/16/16 20:37	1
4-Nitroaniline	1.9	U	9.6	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
4-Nitrophenol	1.2	U	9.6	1.2	ug/L		10/27/16 13:28	11/16/16 20:37	1
4-Nitroquinoline-1-oxide	19	U	96	19	ug/L		10/27/16 13:28	11/16/16 20:37	1
5-Nitro-o-toluidine	1.3	U	19	1.3	ug/L		10/27/16 13:28	11/16/16 20:37	1
7,12-Dimethylbenz(a)anthracene	1.5	U	19	1.5	ug/L		10/27/16 13:28	11/16/16 20:37	1
Acenaphthene	0.27	U	3.9	0.27	ug/L		10/27/16 13:28	11/16/16 20:37	1
Acenaphthylene	0.47	U	3.9	0.47	ug/L		10/27/16 13:28	11/16/16 20:37	1
Acetophenone	0.23	U	9.6	0.23	ug/L		10/27/16 13:28	11/16/16 20:37	1
alpha,alpha-Dimethyl phenethylamine	19	U	48	19	ug/L		10/27/16 13:28	11/16/16 20:37	1
Aniline	1.9	U	9.6	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Anthracene	0.40	U	3.9	0.40	ug/L		10/27/16 13:28	11/16/16 20:37	1
Aramite, Total	8.9	U	18	8.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Benzo[a]anthracene	0.34	U	3.9	0.34	ug/L		10/27/16 13:28	11/16/16 20:37	1
Benzo[a]pyrene	0.30	U	3.9	0.30	ug/L		10/27/16 13:28	11/16/16 20:37	1
Benzo[b]fluoranthene	0.51	U	3.9	0.51	ug/L		10/27/16 13:28	11/16/16 20:37	1
Benzo[g,h,i]perylene	0.48	U	3.9	0.48	ug/L		10/27/16 13:28	11/16/16 20:37	1
Benzo[k]fluoranthene	0.44	U	3.9	0.44	ug/L		10/27/16 13:28	11/16/16 20:37	1
Benzyl alcohol	0.22	U	9.6	0.22	ug/L		10/27/16 13:28	11/16/16 20:37	1
bis(2 chloro-1-methylethyl) ether	0.27	U	9.6	0.27	ug/L		10/27/16 13:28	11/16/16 20:37	1
Bis(2-chloroethoxy)methane	0.93	U	9.6	0.93	ug/L		10/27/16 13:28	11/16/16 20:37	1
Bis(2-chloroethyl)ether	0.40	U	9.6	0.40	ug/L		10/27/16 13:28	11/16/16 20:37	1
Bis(2-ethylhexyl) phthalate	0.54	U	9.6	0.54	ug/L		10/27/16 13:28	11/16/16 20:37	1
Butyl benzyl phthalate	0.96	U	3.9	0.96	ug/L		10/27/16 13:28	11/16/16 20:37	1
Carbazole	0.41	U	3.9	0.41	ug/L		10/27/16 13:28	11/16/16 20:37	1
Chlorobenzilate	0.63	U	9.6	0.63	ug/L		10/27/16 13:28	11/16/16 20:37	1
Chrysene	0.52	U	3.9	0.52	ug/L		10/27/16 13:28	11/16/16 20:37	1
Diallate	1.9	U	19	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Dibenz[a,h]anthracene	0.49	U	3.9	0.49	ug/L		10/27/16 13:28	11/16/16 20:37	1
Dibenzofuran	0.28	U	3.9	0.28	ug/L		10/27/16 13:28	11/16/16 20:37	1
Diethyl phthalate	0.37	U	3.9	0.37	ug/L		10/27/16 13:28	11/16/16 20:37	1
Dimethoate	1.0	U	19	1.0	ug/L		10/27/16 13:28	11/16/16 20:37	1
Dimethyl phthalate	0.20	U	3.9	0.20	ug/L		10/27/16 13:28	11/16/16 20:37	1
Di-n-butyl phthalate	1.1	U	3.9	1.1	ug/L		10/27/16 13:28	11/16/16 20:37	1
Di-n-octyl phthalate	0.34	U	3.9	0.34	ug/L		10/27/16 13:28	11/16/16 20:37	1
Dinoseb	3.9	U	19	3.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Diphenylamine + N-Nitrosodiphenylamine	0.42	U	9.6	0.42	ug/L		10/27/16 13:28	11/16/16 20:37	1

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

Client Sample ID: B36NJ4
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00

Lab Sample ID: 280-89785-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Disulfoton	1.1	U	48	1.1	ug/L		10/27/16 13:28	11/16/16 20:37	1
Ethyl methanesulfonate	0.91	U	9.6	0.91	ug/L		10/27/16 13:28	11/16/16 20:37	1
Famphur	1.5	U	96	1.5	ug/L		10/27/16 13:28	11/16/16 20:37	1
Fluoranthene	0.19	U	3.9	0.19	ug/L		10/27/16 13:28	11/16/16 20:37	1
Fluorene	0.30	U	3.9	0.30	ug/L		10/27/16 13:28	11/16/16 20:37	1
Hexachlorobenzene	0.64	U	9.6	0.64	ug/L		10/27/16 13:28	11/16/16 20:37	1
Hexachlorobutadiene	3.2	U	9.6	3.2	ug/L		10/27/16 13:28	11/16/16 20:37	1
Hexachlorocyclopentadiene	1.5	U	48	1.5	ug/L		10/27/16 13:28	11/16/16 20:37	1
Hexachloroethane	2.0	U	9.6	2.0	ug/L		10/27/16 13:28	11/16/16 20:37	1
Hexachlorophene	960	U	960	960	ug/L		10/27/16 13:28	11/16/16 20:37	1
Hexachloropropene	1.9	U	96	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Indeno[1,2,3-cd]pyrene	0.63	U	3.9	0.63	ug/L		10/27/16 13:28	11/16/16 20:37	1
Isodrin	1.7	U	9.6	1.7	ug/L		10/27/16 13:28	11/16/16 20:37	1
Isophorone	0.20	U	9.6	0.20	ug/L		10/27/16 13:28	11/16/16 20:37	1
Isosafrole	1.9	U	19	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Methapyrilene	19	U	48	19	ug/L		10/27/16 13:28	11/16/16 20:37	1
Methyl methanesulfonate	0.96	U	9.6	0.96	ug/L		10/27/16 13:28	11/16/16 20:37	1
Methyl parathion	3.1	U	48	3.1	ug/L		10/27/16 13:28	11/16/16 20:37	1
Naphthalene	0.28	U	3.9	0.28	ug/L		10/27/16 13:28	11/16/16 20:37	1
Nitrobenzene	0.78	U	9.6	0.78	ug/L		10/27/16 13:28	11/16/16 20:37	1
N-Nitrosodiethylamine	1.7	U	9.6	1.7	ug/L		10/27/16 13:28	11/16/16 20:37	1
N-Nitrosodimethylamine	0.28	U	9.6	0.28	ug/L		10/27/16 13:28	11/16/16 20:37	1
N-Nitrosodi-n-butylamine	1.2	U	9.6	1.2	ug/L		10/27/16 13:28	11/16/16 20:37	1
N-Nitrosodi-n-propylamine	0.34	U	9.6	0.34	ug/L		10/27/16 13:28	11/16/16 20:37	1
N-Nitrosomethylethylamine	1.7	U	9.6	1.7	ug/L		10/27/16 13:28	11/16/16 20:37	1
N-Nitrosomorpholine	1.9	U	9.6	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
N-Nitrosopiperidine	1.9	U	9.6	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
N-Nitrosopyrrolidine	0.77	U	9.6	0.77	ug/L		10/27/16 13:28	11/16/16 20:37	1
O,O,O-Triethyl phosphorothioate	1.9	U	48	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
O,O-Diethyl O-2-pyrazinyl phosphorothioate	0.83	U	48	0.83	ug/L		10/27/16 13:28	11/16/16 20:37	1
o-Toluidine	1.3	U	9.6	1.3	ug/L		10/27/16 13:28	11/16/16 20:37	1
Parathion	1.9	U	48	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
p-Dimethylamino azobenzene	1.9	U	19	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Pentachlorobenzene	1.9	U	9.6	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Pentachloroethane	1.9	U	48	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Pentachloronitrobenzene	1.9	U	48	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Pentachlorophenol	19	U	48	19	ug/L		10/27/16 13:28	11/16/16 20:37	1
Phenacetin	1.0	U	19	1.0	ug/L		10/27/16 13:28	11/16/16 20:37	1
Phenanthrene	0.25	U	3.9	0.25	ug/L		10/27/16 13:28	11/16/16 20:37	1
Phenol	1.9	U	9.6	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Phorate	1.9	U	48	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
p-Phenylene diamine	4.8	U	96	4.8	ug/L		10/27/16 13:28	11/16/16 20:37	1
Pronamide	1.9	U	19	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Pyrene	0.36	U	9.6	0.36	ug/L		10/27/16 13:28	11/16/16 20:37	1
Pyridine	1.6	U	19	1.6	ug/L		10/27/16 13:28	11/16/16 20:37	1
Safrole	1.1	U	19	1.1	ug/L		10/27/16 13:28	11/16/16 20:37	1
sym-Trinitrobenzene	3.9	U	48	3.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Tetraethyldithiopyrophosphate	1.9	U	19	1.9	ug/L		10/27/16 13:28	11/16/16 20:37	1
Tributyl phosphate	1.1	U	48	1.1	ug/L		10/27/16 13:28	11/16/16 20:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Butane, 2-methoxy-2-methyl-	160	N J	ug/L		1.77	994-05-8	10/27/16 13:28	11/16/16 20:37	1
2-Pentanone, 4-hydroxy-4-methyl-	31	N J	ug/L		3.04	123-42-2	10/27/16 13:28	11/16/16 20:37	1
Kepone TIC	2.4	U	ug/L			143-50-0	10/27/16 13:28	11/16/16 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	114		42 - 130	10/27/16 13:28	11/16/16 20:37	1
2-Fluorobiphenyl (Surr)	104		48 - 130	10/27/16 13:28	11/16/16 20:37	1
2-Fluorophenol (Surr)	98		41 - 130	10/27/16 13:28	11/16/16 20:37	1
Nitrobenzene-d5 (Surr)	99		42 - 130	10/27/16 13:28	11/16/16 20:37	1
Phenol-d5 (Surr)	94		45 - 130	10/27/16 13:28	11/16/16 20:37	1
Terphenyl-d14 (Surr)	109		20 - 130	10/27/16 13:28	11/16/16 20:37	1

Client Sample ID: B36P41
Date Collected: 10/20/16 08:05
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.6	U	19	1.6	ug/L		10/27/16 13:28	11/16/16 22:01	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Butane, 2-methoxy-2-methyl-	110	N J	ug/L		1.77	994-05-8	10/27/16 13:28	11/16/16 22:01	1
2-Pentanone, 4-hydroxy-4-methyl-	23	N J	ug/L		3.04	123-42-2	10/27/16 13:28	11/16/16 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		48 - 130	10/27/16 13:28	11/16/16 22:01	1
2-Fluorophenol (Surr)	73		41 - 130	10/27/16 13:28	11/16/16 22:01	1
2,4,6-Tribromophenol (Surr)	95		42 - 130	10/27/16 13:28	11/16/16 22:01	1
Nitrobenzene-d5 (Surr)	74		42 - 130	10/27/16 13:28	11/16/16 22:01	1
Phenol-d5 (Surr)	72		45 - 130	10/27/16 13:28	11/16/16 22:01	1
Terphenyl-d14 (Surr)	104		20 - 130	10/27/16 13:28	11/16/16 22:01	1

General Chemistry

Client Sample ID: B36NJ4
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	**9.1**	**B N**	30.0	7.7	ug/L			11/15/16 08:45	1
Total Organic Carbon - Average	**349**	**B C**	1000	155	ug/L			11/10/16 01:31	1

Client Sample ID: B36PD7
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U N	30.0	7.7	ug/L			11/15/16 08:45	1
Total Organic Carbon - Average	**366**	**B C**	1000	155	ug/L			11/10/16 02:15	1

Client Sample ID: B36PD6
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00
Lab Sample ID: 280-89785-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U N	30.0	7.7	ug/L			11/15/16 08:45	1
Total Organic Carbon - Average	**327**	**B C**	1000	155	ug/L			11/10/16 02:31	1

General Chemistry

Client Sample ID: B36PD8
Date Collected: 10/20/16 09:55
Date Received: 10/21/16 10:00

Lab Sample ID: 280-89785-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U N	30.0	7.7	ug/L			11/15/16 08:45	1
Total Organic Carbon - Average	**317**	**B C**	1000	155	ug/L			11/10/16 02:46	1

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-010 / W17-010 / X17-003

TestAmerica Job ID: 280-89785-1
SDG: DN0039

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-349556/6
Matrix: Water
Analysis Batch: 349556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			11/02/16 21:40	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			11/02/16 21:40	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			11/02/16 21:40	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			11/02/16 21:40	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			11/02/16 21:40	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			11/02/16 21:40	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			11/02/16 21:40	1
1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47	ug/L			11/02/16 21:40	1
1-Butanol	17	U	60	17	ug/L			11/02/16 21:40	1
1,2-Dibromoethane	0.18	U	1.0	0.18	ug/L			11/02/16 21:40	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			11/02/16 21:40	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			11/02/16 21:40	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			11/02/16 21:40	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			11/02/16 21:40	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			11/02/16 21:40	1
Acetone	1.9	U	10	1.9	ug/L			11/02/16 21:40	1
Acetonitrile	9.6	U	30	9.6	ug/L			11/02/16 21:40	1
Acrolein	2.8	U	20	2.8	ug/L			11/02/16 21:40	1
Acrylonitrile	1.4	U	20	1.4	ug/L			11/02/16 21:40	1
Allyl chloride	0.17	U	2.0	0.17	ug/L			11/02/16 21:40	1
Benzene	0.16	U	1.0	0.16	ug/L			11/02/16 21:40	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			11/02/16 21:40	1
Tetrahydrofuran	2.0	U	7.0	2.0	ug/L			11/02/16 21:40	1
Bromoform	0.19	U	1.0	0.19	ug/L			11/02/16 21:40	1
Bromomethane	0.21	U	2.0	0.21	ug/L			11/02/16 21:40	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			11/02/16 21:40	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			11/02/16 21:40	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			11/02/16 21:40	1
Chloroethane	0.41	U	2.0	0.41	ug/L			11/02/16 21:40	1
Chloroform	0.16	U	1.0	0.16	ug/L			11/02/16 21:40	1
Chloromethane	0.30	U	2.0	0.30	ug/L			11/02/16 21:40	1
Chloroprene	0.21	U	1.0	0.21	ug/L			11/02/16 21:40	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			11/02/16 21:40	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			11/02/16 21:40	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			11/02/16 21:40	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			11/02/16 21:40	1
Dichlorodifluoromethane	0.31	U	2.0	0.31	ug/L			11/02/16 21:40	1
Ethyl Cyanide	3.7	U	20	3.7	ug/L			11/02/16 21:40	1
Ethyl methacrylate	0.86	U	3.0	0.86	ug/L			11/02/16 21:40	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			11/02/16 21:40	1
Iodomethane	0.23	U	1.0	0.23	ug/L			11/02/16 21:40	1
Isobutyl alcohol	37	U	110	37	ug/L			11/02/16 21:40	1
Methacrylonitrile	1.6	U	10	1.6	ug/L			11/02/16 21:40	1
Methyl methacrylate	1.1	U	4.0	1.1	ug/L			11/02/16 21:40	1
Methylene Chloride	1.31	J	2.0	0.32	ug/L			11/02/16 21:40	1
Styrene	0.17	U	1.0	0.17	ug/L			11/02/16 21:40	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			11/02/16 21:40	1
Toluene	0.17	U	1.0	0.17	ug/L			11/02/16 21:40	1

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-010 / W17-010 / X17-003

TestAmerica Job ID: 280-89785-1
SDG: DN0039

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

Lab Sample ID: MB 280-349556/6
Matrix: Water
Analysis Batch: 349556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			11/02/16 21:40	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			11/02/16 21:40	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			11/02/16 21:40	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			11/02/16 21:40	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			11/02/16 21:40	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			11/02/16 21:40	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			11/02/16 21:40	1
Xylenes, Total	0.19	U	2.0	0.19	ug/L			11/02/16 21:40	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			11/02/16 21:40	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/02/16 21:40*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*11/02/16 21:40*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*11/02/16 21:40*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/02/16 21:40*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*11/02/16 21:40*	*1*

Lab Sample ID: LCS 280-349556/4
Matrix: Water
Analysis Batch: 349556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	6.27		ug/L		125	65 - 135
1,1,1-Trichloroethane	5.00	5.16		ug/L		103	65 - 135
1,1,2,2-Tetrachloroethane	5.00	5.69		ug/L		114	58 - 135
1,1,2-Trichloroethane	5.00	5.98		ug/L		120	64 - 135
1,1-Dichloroethane	5.00	5.18		ug/L		104	65 - 135
1,1-Dichloroethene	5.00	4.87		ug/L		97	65 - 136
1,2,3-Trichloropropane	5.00	5.72		ug/L		114	65 - 135
1,2-Dibromo-3-Chloropropane	5.00	4.80	J	ug/L		96	57 - 135
1,2-Dibromoethane	5.00	5.44		ug/L		109	65 - 135
1,2-Dichloroethane	5.00	5.83		ug/L		117	65 - 135
1,2-Dichloropropane	5.00	5.48		ug/L		110	64 - 135
2-Butanone (MEK)	20.0	20.0		ug/L		100	44 - 177
2-Hexanone	20.0	15.2		ug/L		76	57 - 139
4-Methyl-2-pentanone (MIBK)	20.0	16.8		ug/L		84	60 - 150
Acetone	20.0	20.1		ug/L		100	39 - 156
Acrolein	100	176	o	ug/L		176	36 - 147
Benzene	5.00	5.31		ug/L		106	65 - 135
Bromodichloromethane	5.00	6.00		ug/L		120	65 - 135
Bromoform	5.00	5.28		ug/L		106	62 - 135
Bromomethane	5.00	4.64		ug/L		93	45 - 135
Carbon disulfide	5.00	4.80		ug/L		96	55 - 143
Carbon tetrachloride	5.00	5.21		ug/L		104	65 - 135
Chlorobenzene	5.00	5.67		ug/L		113	65 - 135

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

Lab Sample ID: LCS 280-349556/4
Matrix: Water
Analysis Batch: 349556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	5.00	4.07		ug/L		81	46 - 136
Chloroform	5.00	5.63		ug/L		113	65 - 135
Chloromethane	5.00	4.11		ug/L		82	34 - 145
cis-1,2-Dichloroethene	5.00	5.55		ug/L		111	65 - 135
cis-1,3-Dichloropropene	5.00	4.59		ug/L		92	65 - 135
Dibromochloromethane	5.00	5.16		ug/L		103	65 - 135
Dibromomethane	5.00	5.74		ug/L		115	65 - 135
Dichlorodifluoromethane	5.00	4.82		ug/L		96	43 - 142
Ethylbenzene	5.00	5.35		ug/L		107	65 - 135
Methylene Chloride	5.00	6.64		ug/L		133	54 - 141
Styrene	5.00	5.75		ug/L		115	65 - 135
Tetrachloroethene	5.00	5.19		ug/L		104	65 - 135
Toluene	5.00	5.61		ug/L		112	65 - 135
trans-1,2-Dichloroethene	5.00	5.04		ug/L		101	65 - 135
trans-1,3-Dichloropropene	5.00	5.53		ug/L		111	65 - 135
Trichloroethene	5.00	4.97		ug/L		99	65 - 135
Trichlorofluoromethane	5.00	4.87		ug/L		97	53 - 137
Vinyl acetate	20.0	16.2		ug/L		81	11 - 187
Vinyl chloride	5.00	4.02		ug/L		80	40 - 137
Xylenes, Total	10.0	11.0		ug/L		110	65 - 135
1,4-Dichlorobenzene	5.00	5.89		ug/L		118	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: 280-89785-2 MS
Matrix: Water
Analysis Batch: 349556

Client Sample ID: B36NJ4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.21	U	5.00	6.35		ug/L		127	65 - 135
1,1,1-Trichloroethane	0.16	U	5.00	5.57		ug/L		111	65 - 135
1,1,2,2-Tetrachloroethane	0.21	U	5.00	5.80		ug/L		116	58 - 135
1,1,2-Trichloroethane	0.27	U	5.00	5.94		ug/L		119	64 - 135
1,1-Dichloroethane	0.22	U	5.00	5.34		ug/L		107	65 - 135
1,1-Dichloroethene	0.23	U	5.00	4.92		ug/L		98	65 - 136
1,2,3-Trichloropropane	0.33	U	5.00	5.41		ug/L		108	65 - 135
1,2-Dibromo-3-Chloropropane	0.47	U	5.00	4.31	J	ug/L		86	57 - 135
1,2-Dibromoethane	0.18	U	5.00	5.29		ug/L		106	65 - 135
1,2-Dichloroethane	0.13	U	5.00	6.11		ug/L		122	65 - 135
1,2-Dichloropropane	0.18	U	5.00	5.55		ug/L		111	64 - 135
1,4-Dichlorobenzene	0.16	U	5.00	5.60		ug/L		112	65 - 135
2-Butanone (MEK)	2.0	U	20.0	14.1		ug/L		71	44 - 177
2-Hexanone	1.7	U	20.0	14.5		ug/L		72	57 - 139
4-Methyl-2-pentanone (MIBK)	0.98	U	20.0	16.8		ug/L		84	60 - 150

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

Lab Sample ID: 280-89785-2 MS
Matrix: Water
Analysis Batch: 349556

Client Sample ID: B36NJ4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	1.9	U	20.0	20.5		ug/L		103	39 - 156
Acrolein	2.8	U T o	50.0	188	T	ug/L		376	36 - 147
Benzene	0.16	U	5.00	5.45		ug/L		109	65 - 135
Bromodichloromethane	0.17	U	5.00	6.05		ug/L		121	65 - 135
Bromoform	0.19	U	5.00	5.33		ug/L		107	62 - 135
Bromomethane	0.21	U	5.00	5.47		ug/L		109	45 - 135
Carbon disulfide	0.45	U	5.00	4.98		ug/L		100	55 - 143
Carbon tetrachloride	0.19	U	5.00	5.70		ug/L		114	65 - 135
Chlorobenzene	0.17	U	5.00	5.65		ug/L		113	65 - 135
Chloroethane	0.41	U	5.00	4.74		ug/L		95	46 - 136
Chloroform	0.16	U	5.00	5.80		ug/L		116	65 - 135
Chloromethane	0.30	U	5.00	4.53		ug/L		91	34 - 145
cis-1,2-Dichloroethene	0.15	U	5.00	5.59		ug/L		112	65 - 135
cis-1,3-Dichloropropene	0.16	U	5.00	4.22		ug/L		84	65 - 135
Dibromochloromethane	0.17	U	5.00	5.33		ug/L		107	65 - 135
Dibromomethane	0.17	U	5.00	5.99		ug/L		120	65 - 135
Dichlorodifluoromethane	0.31	U	5.00	5.84		ug/L		117	43 - 142
Ethylbenzene	0.16	U	5.00	5.46		ug/L		109	65 - 135
Methylene Chloride	0.32	U	5.00	6.21		ug/L		124	54 - 141
Styrene	0.17	U	5.00	5.55		ug/L		111	65 - 135
Tetrachloroethene	0.20	U	5.00	5.10		ug/L		102	65 - 135
Toluene	0.17	U	5.00	5.77		ug/L		115	65 - 135
trans-1,2-Dichloroethene	0.15	U	5.00	5.35		ug/L		107	65 - 135
trans-1,3-Dichloropropene	0.19	U	5.00	5.50		ug/L		110	65 - 135
Trichloroethene	0.16	U	5.00	5.07		ug/L		101	65 - 135
Trichlorofluoromethane	0.29	U	5.00	5.97		ug/L		119	53 - 137
Vinyl acetate	0.94	U	10.0	17.9		ug/L		179	11 - 187
Vinyl chloride	0.10	U	5.00	4.76		ug/L		95	40 - 137
Xylenes, Total	0.19	U	10.0	11.2		ug/L		112	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 280-89785-2 MSD
Matrix: Water
Analysis Batch: 349556

Client Sample ID: B36NJ4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.21	U	5.00	5.63		ug/L		113	65 - 135	12	20
1,1,1-Trichloroethane	0.16	U	5.00	4.79		ug/L		96	65 - 135	15	20
1,1,2,2-Tetrachloroethane	0.21	U	5.00	5.11		ug/L		102	58 - 135	13	20
1,1,2-Trichloroethane	0.27	U	5.00	5.36		ug/L		107	64 - 135	10	27
1,1-Dichloroethane	0.22	U	5.00	4.83		ug/L		97	65 - 135	10	21
1,1-Dichloroethene	0.23	U	5.00	4.60		ug/L		92	65 - 136	7	20
1,2,3-Trichloropropane	0.33	U	5.00	5.03		ug/L		101	65 - 135	7	23

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

Lab Sample ID: 280-89785-2 MSD
Matrix: Water
Analysis Batch: 349556

Client Sample ID: B36NJ4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.47	U	5.00	4.57	J	ug/L		91	57 - 135	6	22
1,2-Dibromoethane	0.18	U	5.00	4.92		ug/L		98	65 - 135	7	27
1,2-Dichloroethane	0.13	U	5.00	5.25		ug/L		105	65 - 135	15	20
1,2-Dichloropropane	0.18	U	5.00	4.98		ug/L		100	64 - 135	11	20
1,4-Dichlorobenzene	0.16	U	5.00	5.26		ug/L		105	65 - 135	6	23
2-Butanone (MEK)	2.0	U	20.0	19.4		ug/L		97	44 - 177	32	32
2-Hexanone	1.7	U	20.0	14.7		ug/L		73	57 - 139	1	25
4-Methyl-2-pentanone (MIBK)	0.98	U	20.0	16.2		ug/L		81	60 - 150	4	22
Acetone	1.9	U	20.0	19.7		ug/L		99	39 - 156	4	23
Acrolein	2.8	U T o	50.0	181	T	ug/L		362	36 - 147	4	30
Benzene	0.16	U	5.00	4.92		ug/L		98	65 - 135	10	20
Bromodichloromethane	0.17	U	5.00	5.45		ug/L		109	65 - 135	11	20
Bromoform	0.19	U	5.00	5.06		ug/L		101	62 - 135	5	27
Bromomethane	0.21	U	5.00	5.22		ug/L		104	45 - 135	5	33
Carbon disulfide	0.45	U	5.00	4.50		ug/L		90	55 - 143	10	20
Carbon tetrachloride	0.19	U	5.00	4.75		ug/L		95	65 - 135	18	21
Chlorobenzene	0.17	U	5.00	5.18		ug/L		104	65 - 135	9	20
Chloroethane	0.41	U	5.00	4.39		ug/L		88	46 - 136	8	25
Chloroform	0.16	U	5.00	5.35		ug/L		107	65 - 135	8	20
Chloromethane	0.30	U	5.00	4.57		ug/L		91	34 - 145	1	24
cis-1,2-Dichloroethene	0.15	U	5.00	5.03		ug/L		101	65 - 135	11	20
cis-1,3-Dichloropropene	0.16	U	5.00	3.90		ug/L		78	65 - 135	8	26
Dibromochloromethane	0.17	U	5.00	4.60		ug/L		92	65 - 135	15	20
Dibromomethane	0.17	U	5.00	5.30		ug/L		106	65 - 135	12	26
Dichlorodifluoromethane	0.31	U	5.00	4.77		ug/L		95	43 - 142	20	30
Ethylbenzene	0.16	U	5.00	4.91		ug/L		98	65 - 135	11	20
Methylene Chloride	0.32	U	5.00	5.35		ug/L		107	54 - 141	15	26
Styrene	0.17	U	5.00	5.10		ug/L		102	65 - 135	8	26
Tetrachloroethene	0.20	U	5.00	4.64		ug/L		93	65 - 135	9	20
Toluene	0.17	U	5.00	5.21		ug/L		104	65 - 135	10	20
trans-1,2-Dichloroethene	0.15	U	5.00	4.87		ug/L		97	65 - 135	9	24
trans-1,3-Dichloropropene	0.19	U	5.00	4.90		ug/L		98	65 - 135	12	26
Trichloroethene	0.16	U	5.00	4.53		ug/L		91	65 - 135	11	20
Trichlorofluoromethane	0.29	U	5.00	4.91		ug/L		98	53 - 137	19	27
Vinyl acetate	0.94	U	10.0	17.0		ug/L		170	11 - 187	5	24
Vinyl chloride	0.10	U	5.00	4.37		ug/L		87	40 - 137	9	24
Xylenes, Total	0.19	U	10.0	10.0		ug/L		100	65 - 135	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-010 / W17-010 / X17-003

TestAmerica Job ID: 280-89785-1
SDG: DN0039

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

Lab Sample ID: MB 280-348544/1-A
Matrix: Water
Analysis Batch: 351792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 348544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	1.7	U	10	1.7	ug/L		10/27/16 13:28	11/16/16 17:21	1
1,2,4-Trichlorobenzene	0.28	U	4.0	0.28	ug/L		10/27/16 13:28	11/16/16 17:21	1
1,2-Dichlorobenzene	0.23	U	4.0	0.23	ug/L		10/27/16 13:28	11/16/16 17:21	1
1,3-Dichlorobenzene	0.30	U	10	0.30	ug/L		10/27/16 13:28	11/16/16 17:21	1
1,3-Dinitrobenzene	2.0	U	10	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
1,4-Dichlorobenzene	0.32	U	4.0	0.32	ug/L		10/27/16 13:28	11/16/16 17:21	1
1,4-Dioxane	1.7	U	20	1.7	ug/L		10/27/16 13:28	11/16/16 17:21	1
1,4-Naphthoquinone	14	U	50	14	ug/L		10/27/16 13:28	11/16/16 17:21	1
1-Naphthylamine	3.1	U	10	3.1	ug/L		10/27/16 13:28	11/16/16 17:21	1
2,3,4,6-Tetrachlorophenol	2.0	U	50	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
2,4,5-Trichlorophenol	0.45	U	10	0.45	ug/L		10/27/16 13:28	11/16/16 17:21	1
2,4,6-Trichlorophenol	0.29	U	10	0.29	ug/L		10/27/16 13:28	11/16/16 17:21	1
2,4-Dichlorophenol	0.64	U	10	0.64	ug/L		10/27/16 13:28	11/16/16 17:21	1
2,4-Dimethylphenol	0.58	U	10	0.58	ug/L		10/27/16 13:28	11/16/16 17:21	1
2,4-Dinitrophenol	10	U	30	10	ug/L		10/27/16 13:28	11/16/16 17:21	1
2,4-Dinitrotoluene	1.7	U	10	1.7	ug/L		10/27/16 13:28	11/16/16 17:21	1
2,6-Dichlorophenol	1.4	U	10	1.4	ug/L		10/27/16 13:28	11/16/16 17:21	1
2,6-Dinitrotoluene	1.9	U	10	1.9	ug/L		10/27/16 13:28	11/16/16 17:21	1
2-Acetylaminofluorene	7.0	U	100	7.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
2-Chloronaphthalene	0.26	U	4.0	0.26	ug/L		10/27/16 13:28	11/16/16 17:21	1
2-Chlorophenol	2.0	U	10	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
2-Methylnaphthalene	0.29	U	4.0	0.29	ug/L		10/27/16 13:28	11/16/16 17:21	1
2-Methylphenol	0.98	U	10	0.98	ug/L		10/27/16 13:28	11/16/16 17:21	1
2-Naphthylamine	3.1	U	10	3.1	ug/L		10/27/16 13:28	11/16/16 17:21	1
2-Nitroaniline	1.7	U	10	1.7	ug/L		10/27/16 13:28	11/16/16 17:21	1
2-Nitrophenol	0.39	U	10	0.39	ug/L		10/27/16 13:28	11/16/16 17:21	1
2-Picoline	1.2	U	20	1.2	ug/L		10/27/16 13:28	11/16/16 17:21	1
3 & 4 Methylphenol	0.25	U	10	0.25	ug/L		10/27/16 13:28	11/16/16 17:21	1
3,3'-Dichlorobenzidine	2.0	U	50	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
3,3'-Dimethylbenzidine	4.0	U	20	4.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
3-Methylcholanthrene	1.7	U	20	1.7	ug/L		10/27/16 13:28	11/16/16 17:21	1
3-Nitroaniline	2.0	U	10	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
4,6-Dinitro-2-methylphenol	4.0	U	50	4.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
4-Aminobiphenyl	4.5	U	50	4.5	ug/L		10/27/16 13:28	11/16/16 17:21	1
4-Bromophenyl phenyl ether	0.43	U	10	0.43	ug/L		10/27/16 13:28	11/16/16 17:21	1
4-Chloro-3-methylphenol	2.4	U	10	2.4	ug/L		10/27/16 13:28	11/16/16 17:21	1
4-Chloroaniline	2.1	U	10	2.1	ug/L		10/27/16 13:28	11/16/16 17:21	1
4-Chlorophenyl phenyl ether	1.7	U	10	1.7	ug/L		10/27/16 13:28	11/16/16 17:21	1
4-Nitroaniline	2.0	U	10	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
4-Nitrophenol	1.2	U	10	1.2	ug/L		10/27/16 13:28	11/16/16 17:21	1
4-Nitroquinoline-1-oxide	20	U	100	20	ug/L		10/27/16 13:28	11/16/16 17:21	1
5-Nitro-o-toluidine	1.4	U	20	1.4	ug/L		10/27/16 13:28	11/16/16 17:21	1
7,12-Dimethylbenz(a)anthracene	1.6	U	20	1.6	ug/L		10/27/16 13:28	11/16/16 17:21	1
Acenaphthene	0.28	U	4.0	0.28	ug/L		10/27/16 13:28	11/16/16 17:21	1
Acenaphthylene	0.49	U	4.0	0.49	ug/L		10/27/16 13:28	11/16/16 17:21	1
Acetophenone	0.24	U	10	0.24	ug/L		10/27/16 13:28	11/16/16 17:21	1
alpha,alpha-Dimethyl phenethylamine	20	U	50	20	ug/L		10/27/16 13:28	11/16/16 17:21	1
Aniline	2.0	U	10	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1

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

Lab Sample ID: MB 280-348544/1-A
Matrix: Water
Analysis Batch: 351792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 348544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.42	U	4.0	0.42	ug/L		10/27/16 13:28	11/16/16 17:21	1
Aramite, Total	9.2	U	18	9.2	ug/L		10/27/16 13:28	11/16/16 17:21	1
Benzo[a]anthracene	0.35	U	4.0	0.35	ug/L		10/27/16 13:28	11/16/16 17:21	1
Benzo[a]pyrene	0.31	U	4.0	0.31	ug/L		10/27/16 13:28	11/16/16 17:21	1
Benzo[b]fluoranthene	0.53	U	4.0	0.53	ug/L		10/27/16 13:28	11/16/16 17:21	1
Benzo[g,h,i]perylene	0.50	U	4.0	0.50	ug/L		10/27/16 13:28	11/16/16 17:21	1
Benzo[k]fluoranthene	0.46	U	4.0	0.46	ug/L		10/27/16 13:28	11/16/16 17:21	1
Benzyl alcohol	0.23	U	10	0.23	ug/L		10/27/16 13:28	11/16/16 17:21	1
bis(2 chloro-1-methylethyl) ether	0.28	U	10	0.28	ug/L		10/27/16 13:28	11/16/16 17:21	1
Bis(2-chloroethoxy)methane	0.97	U	10	0.97	ug/L		10/27/16 13:28	11/16/16 17:21	1
Bis(2-chloroethyl)ether	0.41	U	10	0.41	ug/L		10/27/16 13:28	11/16/16 17:21	1
Bis(2-ethylhexyl) phthalate	0.56	U	10	0.56	ug/L		10/27/16 13:28	11/16/16 17:21	1
Butyl benzyl phthalate	1.0	U	4.0	1.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Carbazole	0.43	U	4.0	0.43	ug/L		10/27/16 13:28	11/16/16 17:21	1
Chlorobenzilate	0.66	U	10	0.66	ug/L		10/27/16 13:28	11/16/16 17:21	1
Chrysene	0.54	U	4.0	0.54	ug/L		10/27/16 13:28	11/16/16 17:21	1
Diallate	2.0	U	20	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Dibenz[a,h]anthracene	0.51	U	4.0	0.51	ug/L		10/27/16 13:28	11/16/16 17:21	1
Dibenzofuran	0.29	U	4.0	0.29	ug/L		10/27/16 13:28	11/16/16 17:21	1
Diethyl phthalate	0.38	U	4.0	0.38	ug/L		10/27/16 13:28	11/16/16 17:21	1
Dimethoate	1.1	U	20	1.1	ug/L		10/27/16 13:28	11/16/16 17:21	1
Dimethyl phthalate	0.21	U	4.0	0.21	ug/L		10/27/16 13:28	11/16/16 17:21	1
Di-n-butyl phthalate	1.2	U	4.0	1.2	ug/L		10/27/16 13:28	11/16/16 17:21	1
Di-n-octyl phthalate	0.35	U	4.0	0.35	ug/L		10/27/16 13:28	11/16/16 17:21	1
Dinoseb	4.0	U	20	4.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Diphenylamine + N-Nitrosodiphenylamine	0.44	U	10	0.44	ug/L		10/27/16 13:28	11/16/16 17:21	1
Disulfoton	1.1	U	50	1.1	ug/L		10/27/16 13:28	11/16/16 17:21	1
Ethyl methanesulfonate	0.94	U	10	0.94	ug/L		10/27/16 13:28	11/16/16 17:21	1
Famphur	1.5	U	100	1.5	ug/L		10/27/16 13:28	11/16/16 17:21	1
Fluoranthene	0.20	U	4.0	0.20	ug/L		10/27/16 13:28	11/16/16 17:21	1
Fluorene	0.31	U	4.0	0.31	ug/L		10/27/16 13:28	11/16/16 17:21	1
Hexachlorobenzene	0.66	U	10	0.66	ug/L		10/27/16 13:28	11/16/16 17:21	1
Hexachlorobutadiene	3.3	U	10	3.3	ug/L		10/27/16 13:28	11/16/16 17:21	1
Hexachlorocyclopentadiene	1.5	U	50	1.5	ug/L		10/27/16 13:28	11/16/16 17:21	1
Hexachloroethane	2.1	U	10	2.1	ug/L		10/27/16 13:28	11/16/16 17:21	1
Hexachlorophene	1000	U	1000	1000	ug/L		10/27/16 13:28	11/16/16 17:21	1
Hexachloropropene	2.0	U	100	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Indeno[1,2,3-cd]pyrene	0.65	U	4.0	0.65	ug/L		10/27/16 13:28	11/16/16 17:21	1
Isodrin	1.8	U	10	1.8	ug/L		10/27/16 13:28	11/16/16 17:21	1
Isophorone	0.21	U	10	0.21	ug/L		10/27/16 13:28	11/16/16 17:21	1
Isosafrole	2.0	U	20	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Methapyrilene	20	U	50	20	ug/L		10/27/16 13:28	11/16/16 17:21	1
Methyl methanesulfonate	1.0	U	10	1.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Methyl parathion	3.2	U	50	3.2	ug/L		10/27/16 13:28	11/16/16 17:21	1
Naphthalene	0.29	U	4.0	0.29	ug/L		10/27/16 13:28	11/16/16 17:21	1
Nitrobenzene	0.81	U	10	0.81	ug/L		10/27/16 13:28	11/16/16 17:21	1
N-Nitrosodiethylamine	1.7	U	10	1.7	ug/L		10/27/16 13:28	11/16/16 17:21	1

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-010 / W17-010 / X17-003

TestAmerica Job ID: 280-89785-1
SDG: DN0039

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

Lab Sample ID: MB 280-348544/1-A
Matrix: Water
Analysis Batch: 351792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 348544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	0.29	U	10	0.29	ug/L		10/27/16 13:28	11/16/16 17:21	1
N-Nitrosodi-n-butylamine	1.2	U	10	1.2	ug/L		10/27/16 13:28	11/16/16 17:21	1
N-Nitrosodi-n-propylamine	0.35	U	10	0.35	ug/L		10/27/16 13:28	11/16/16 17:21	1
N-Nitrosomethylethylamine	1.8	U	10	1.8	ug/L		10/27/16 13:28	11/16/16 17:21	1
N-Nitrosomorpholine	2.0	U	10	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
N-Nitrosopiperidine	2.0	U	10	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
N-Nitrosopyrrolidine	0.80	U	10	0.80	ug/L		10/27/16 13:28	11/16/16 17:21	1
O,O,O-Triethyl phosphorothioate	2.0	U	50	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
O,O-Diethyl O-2-pyrazinyl phosphorothioate	0.86	U	50	0.86	ug/L		10/27/16 13:28	11/16/16 17:21	1
o-Toluidine	1.4	U	10	1.4	ug/L		10/27/16 13:28	11/16/16 17:21	1
Parathion	2.0	U	50	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
p-Dimethylamino azobenzene	2.0	U	20	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Pentachlorobenzene	2.0	U	10	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Pentachloroethane	2.0	U	50	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Pentachloronitrobenzene	2.0	U	50	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Pentachlorophenol	20	U	50	20	ug/L		10/27/16 13:28	11/16/16 17:21	1
Phenacetin	1.1	U	20	1.1	ug/L		10/27/16 13:28	11/16/16 17:21	1
Phenanthrene	0.26	U	4.0	0.26	ug/L		10/27/16 13:28	11/16/16 17:21	1
Phenol	2.0	U	10	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Phorate	2.0	U	50	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
p-Phenylene diamine	5.0	U	100	5.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Pronamide	2.0	U	20	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Pyrene	0.37	U	10	0.37	ug/L		10/27/16 13:28	11/16/16 17:21	1
Pyridine	1.7	U	20	1.7	ug/L		10/27/16 13:28	11/16/16 17:21	1
Safrole	1.1	U	20	1.1	ug/L		10/27/16 13:28	11/16/16 17:21	1
sym-Trinitrobenzene	4.0	U	50	4.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Tetraethyldithiopyrophosphate	2.0	U	20	2.0	ug/L		10/27/16 13:28	11/16/16 17:21	1
Tributyl phosphate	1.1	U	50	1.1	ug/L		10/27/16 13:28	11/16/16 17:21	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Butane, 2-methoxy-2-methyl-	*181*	*N J*	*ug/L*		*1.77*	*994-05-8*	*10/27/16 13:28*	*11/16/16 17:21*	*1*
2-Pentanone, 4-hydroxy-4-methyl-	*33.3*	*N J*	*ug/L*		*3.04*	*123-42-2*	*10/27/16 13:28*	*11/16/16 17:21*	*1*
1-Propene, 1,2,3-trichloro-, (Z)-	*7.92*	*N J*	*ug/L*		*3.97*	*13116-57-9*	*10/27/16 13:28*	*11/16/16 17:21*	*1*
Kepone TIC	*2.5*	*U*	*ug/L*			*143-50-0*	*10/27/16 13:28*	*11/16/16 17:21*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*116*		*42 - 130*	*10/27/16 13:28*	*11/16/16 17:21*	*1*
2-Fluorobiphenyl (Surr)	*98*		*48 - 130*	*10/27/16 13:28*	*11/16/16 17:21*	*1*
2-Fluorophenol (Surr)	*101*		*41 - 130*	*10/27/16 13:28*	*11/16/16 17:21*	*1*
Nitrobenzene-d5 (Surr)	*100*		*42 - 130*	*10/27/16 13:28*	*11/16/16 17:21*	*1*
Phenol-d5 (Surr)	*96*		*45 - 130*	*10/27/16 13:28*	*11/16/16 17:21*	*1*
Terphenyl-d14 (Surr)	*111*		*20 - 130*	*10/27/16 13:28*	*11/16/16 17:21*	*1*

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

Lab Sample ID: LCS 280-348544/2-A
Matrix: Water
Analysis Batch: 351629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 348544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	80.0	75.8		ug/L		95	45 - 130
1,2,4-Trichlorobenzene	80.0	66.3		ug/L		83	28 - 130
1,2-Dichlorobenzene	80.0	60.6		ug/L		76	28 - 130
1,3-Dichlorobenzene	80.0	55.0		ug/L		69	24 - 130
1,3-Dinitrobenzene	80.0	95.2		ug/L		119	64 - 130
1,4-Dichlorobenzene	80.0	55.7		ug/L		70	25 - 130
1,4-Dioxane	80.0	68.9		ug/L		86	47 - 130
2,3,4,6-Tetrachlorophenol	80.0	94.1		ug/L		118	60 - 130
2,4,5-Trichlorophenol	80.0	91.2		ug/L		114	59 - 130
2,4,6-Trichlorophenol	80.0	89.8		ug/L		112	59 - 130
2,4-Dichlorophenol	80.0	82.2		ug/L		103	59 - 130
2,4-Dimethylphenol	80.0	50.4		ug/L		63	43 - 130
2,4-Dinitrophenol	160	180		ug/L		113	48 - 130
2,4-Dinitrotoluene	80.0	92.6		ug/L		116	66 - 130
2,6-Dichlorophenol	80.0	81.4		ug/L		102	30 - 150
2,6-Dinitrotoluene	80.0	93.5		ug/L		117	64 - 130
2-Chloronaphthalene	80.0	81.8		ug/L		102	49 - 130
2-Chlorophenol	80.0	83.2		ug/L		104	56 - 130
2-Methylnaphthalene	80.0	75.5		ug/L		94	42 - 130
2-Methylphenol	80.0	77.9		ug/L		97	56 - 130
2-Nitroaniline	80.0	85.3		ug/L		107	59 - 130
2-Nitrophenol	80.0	81.2		ug/L		102	56 - 130
3 & 4 Methylphenol	80.0	83.0		ug/L		104	58 - 130
3,3'-Dichlorobenzidine	80.0	65.7		ug/L		82	10 - 130
3-Nitroaniline	80.0	66.9		ug/L		84	36 - 130
4,6-Dinitro-2-methylphenol	160	177		ug/L		111	60 - 130
4-Bromophenyl phenyl ether	80.0	89.6		ug/L		112	60 - 130
4-Chloro-3-methylphenol	80.0	81.2		ug/L		101	61 - 130
4-Chloroaniline	80.0	59.4		ug/L		74	34 - 130
4-Chlorophenyl phenyl ether	80.0	89.4		ug/L		112	58 - 130
4-Nitroaniline	80.0	86.4		ug/L		108	59 - 130
4-Nitrophenol	160	185		ug/L		116	59 - 130
Acenaphthene	80.0	84.6		ug/L		106	56 - 130
Acenaphthylene	80.0	84.7		ug/L		106	56 - 130
Acetophenone	80.0	80.0		ug/L		100	57 - 130
Aniline	80.0	64.1		ug/L		80	34 - 130
Anthracene	80.0	86.6		ug/L		108	61 - 130
Benzo[a]anthracene	80.0	86.3		ug/L		108	61 - 130
Benzo[a]pyrene	80.0	89.5		ug/L		112	59 - 130
Benzo[b]fluoranthene	80.0	92.8		ug/L		116	60 - 130
Benzo[g,h,i]perylene	80.0	90.6		ug/L		113	60 - 130
Benzo[k]fluoranthene	80.0	90.2		ug/L		113	62 - 130
Benzyl alcohol	80.0	83.3		ug/L		104	58 - 130
bis(2 chloro-1-methylethyl) ether	80.0	72.2		ug/L		90	49 - 130
Bis(2-chloroethoxy)methane	80.0	79.8		ug/L		100	57 - 130
Bis(2-chloroethyl)ether	80.0	80.6		ug/L		101	55 - 130
Bis(2-ethylhexyl) phthalate	80.0	90.0		ug/L		113	62 - 130
Butyl benzyl phthalate	80.0	89.4		ug/L		112	61 - 130

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

Lab Sample ID: LCS 280-348544/2-A
Matrix: Water
Analysis Batch: 351629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 348544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbazole	80.0	88.7		ug/L		111	63 - 130
Chrysene	80.0	86.0		ug/L		108	62 - 130
Dibenz[a,h]anthracene	80.0	91.0		ug/L		114	60 - 130
Dibenzofuran	80.0	86.1		ug/L		108	59 - 130
Diethyl phthalate	80.0	89.2		ug/L		111	64 - 130
Dimethyl phthalate	80.0	89.4		ug/L		112	61 - 130
Di-n-butyl phthalate	80.0	91.7		ug/L		115	62 - 130
Di-n-octyl phthalate	80.0	92.2		ug/L		115	58 - 130
Diphenylamine + N-Nitrosodiphenylamine	80.0	86.9		ug/L		109	58 - 130
Fluoranthene	80.0	89.3		ug/L		112	61 - 130
Fluorene	80.0	87.6		ug/L		110	60 - 130
Hexachlorobenzene	80.0	91.0		ug/L		114	61 - 130
Hexachlorobutadiene	80.0	62.1		ug/L		78	24 - 130
Hexachlorocyclopentadiene	80.0	48.9	J	ug/L		61	10 - 130
Hexachloroethane	80.0	54.6		ug/L		68	21 - 130
Indeno[1,2,3-cd]pyrene	80.0	87.1		ug/L		109	55 - 130
Isophorone	80.0	76.2		ug/L		95	60 - 130
Naphthalene	80.0	70.1		ug/L		88	39 - 130
Nitrobenzene	80.0	76.3		ug/L		95	54 - 130
N-Nitrosodimethylamine	80.0	76.7		ug/L		96	54 - 130
N-Nitrosodi-n-propylamine	80.0	79.1		ug/L		99	56 - 130
Pentachlorophenol	160	177		ug/L		111	43 - 130
Phenanthrene	80.0	89.0		ug/L		111	62 - 130
Phenol	80.0	83.8		ug/L		105	57 - 130
Pyrene	80.0	89.3		ug/L		112	62 - 130
Pyridine	80.0	64.0		ug/L		80	45 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*117*		*42 - 130*
2-Fluorobiphenyl (Surr)	*89*		*48 - 130*
2-Fluorophenol (Surr)	*102*		*41 - 130*
Nitrobenzene-d5 (Surr)	*95*		*42 - 130*
Phenol-d5 (Surr)	*102*		*45 - 130*
Terphenyl-d14 (Surr)	*109*		*20 - 130*

Lab Sample ID: 280-89785-2 MS
Matrix: Water
Analysis Batch: 351792

Client Sample ID: B36NJ4
Prep Type: Total/NA
Prep Batch: 348544

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	1.7	U	77.6	75.3		ug/L		97	45 - 120
1,2,4-Trichlorobenzene	0.27	U	77.6	64.8		ug/L		84	28 - 120
1,2-Dichlorobenzene	0.22	U	77.6	58.9		ug/L		76	28 - 120
1,3-Dichlorobenzene	0.29	U	77.6	52.5		ug/L		68	24 - 120
1,3-Dinitrobenzene	1.9	U	77.6	89.3		ug/L		115	64 - 120
1,4-Dichlorobenzene	0.31	U	77.6	53.6		ug/L		69	25 - 120
1,4-Dioxane	1.6	U	77.6	63.1		ug/L		81	47 - 120

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

Lab Sample ID: 280-89785-2 MS | **Client Sample ID: B36NJ4**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 351792 | **Prep Batch: 348544**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,4,6-Tetrachlorophenol	1.9	U	77.6	88.5		ug/L		114	60 - 122
2,4,5-Trichlorophenol	0.43	U	77.6	82.2		ug/L		106	59 - 120
2,4,6-Trichlorophenol	0.28	U	77.6	81.6		ug/L		105	59 - 121
2,4-Dichlorophenol	0.62	U	77.6	79.6		ug/L		103	59 - 120
2,4-Dimethylphenol	0.56	U	77.6	46.3		ug/L		60	43 - 120
2,4-Dinitrophenol	9.6	U	155	175		ug/L		113	48 - 129
2,4-Dinitrotoluene	1.6	U	77.6	87.2		ug/L		112	66 - 124
2,6-Dichlorophenol	1.3	U	77.6	78.0		ug/L		101	30 - 150
2,6-Dinitrotoluene	1.8	U	77.6	86.5		ug/L		111	64 - 121
2-Chloronaphthalene	0.25	U	77.6	74.4		ug/L		96	49 - 120
2-Chlorophenol	1.9	U	77.6	73.8		ug/L		95	56 - 120
2-Methylnaphthalene	0.28	U	77.6	73.2		ug/L		94	42 - 120
2-Methylphenol	0.94	U	77.6	70.5		ug/L		91	56 - 120
2-Nitroaniline	1.7	U	77.6	80.6		ug/L		104	59 - 124
2-Nitrophenol	0.38	U	77.6	79.0		ug/L		102	56 - 121
3 & 4 Methylphenol	0.24	U	77.6	73.1		ug/L		94	58 - 120
3,3'-Dichlorobenzidine	1.9	U	77.6	63.6		ug/L		82	10 - 122
3-Nitroaniline	1.9	U	77.6	63.3		ug/L		82	36 - 120
4,6-Dinitro-2-methylphenol	3.9	U	155	170		ug/L		110	60 - 126
4-Bromophenyl phenyl ether	0.41	U	77.6	78.4		ug/L		101	60 - 120
4-Chloro-3-methylphenol	2.3	U	77.6	79.2		ug/L		102	61 - 120
4-Chloroaniline	2.1	U	77.6	57.3		ug/L		74	34 - 120
4-Chlorophenyl phenyl ether	1.6	U	77.6	78.0		ug/L		101	58 - 120
4-Nitroaniline	1.9	U	77.6	82.9		ug/L		107	59 - 120
4-Nitrophenol	1.2	U	155	176		ug/L		114	59 - 129
Acenaphthene	0.27	U	77.6	78.8		ug/L		102	56 - 120
Acenaphthylene	0.47	U	77.6	76.4		ug/L		98	56 - 120
Acetophenone	0.23	U	77.6	73.7		ug/L		95	57 - 120
Aniline	1.9	U	77.6	55.4		ug/L		71	34 - 120
Anthracene	0.40	U	77.6	79.2		ug/L		102	61 - 120
Benzo[a]anthracene	0.34	U	77.6	82.6		ug/L		106	61 - 120
Benzo[a]pyrene	0.30	U	77.6	82.5		ug/L		106	59 - 120
Benzo[b]fluoranthene	0.51	U	77.6	84.3		ug/L		109	60 - 121
Benzo[g,h,i]perylene	0.48	U	77.6	87.5		ug/L		113	60 - 120
Benzo[k]fluoranthene	0.44	U	77.6	85.3		ug/L		110	62 - 120
Benzyl alcohol	0.22	U	77.6	76.1		ug/L		98	58 - 120
bis(2 chloro-1-methylethyl) ether	0.27	U	77.6	65.1		ug/L		84	49 - 120
Bis(2-chloroethoxy)methane	0.93	U	77.6	75.0		ug/L		97	57 - 120
Bis(2-chloroethyl)ether	0.40	U	77.6	71.4		ug/L		92	55 - 120
Bis(2-ethylhexyl) phthalate	0.54	U	77.6	83.0		ug/L		107	62 - 126
Butyl benzyl phthalate	0.96	U	77.6	80.9		ug/L		104	61 - 124
Carbazole	0.41	U	77.6	83.4		ug/L		107	63 - 120
Chrysene	0.52	U	77.6	82.1		ug/L		106	62 - 120
Dibenz[a,h]anthracene	0.49	U	77.6	88.0		ug/L		113	60 - 122
Dibenzofuran	0.28	U	77.6	81.2		ug/L		105	59 - 120
Diethyl phthalate	0.37	U	77.6	83.8		ug/L		108	64 - 120
Dimethyl phthalate	0.20	U	77.6	83.3		ug/L		107	61 - 120
Di-n-butyl phthalate	1.1	U	77.6	84.5		ug/L		109	62 - 120

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

Lab Sample ID: 280-89785-2 MS | **Client Sample ID: B36NJ4**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 351792 | **Prep Batch: 348544**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	0.34	U	77.6	85.1		ug/L		110	58 - 125
Diphenylamine + N-Nitrosodiphenylamine	0.42	U	77.6	71.5		ug/L		92	58 - 120
Fluoranthene	0.19	U	77.6	84.8		ug/L		109	61 - 120
Fluorene	0.30	U	77.6	81.3		ug/L		105	60 - 120
Hexachlorobenzene	0.64	U	77.6	80.5		ug/L		104	61 - 120
Hexachlorobutadiene	3.2	U	77.6	61.0		ug/L		79	24 - 120
Hexachlorocyclopentadiene	1.5	U	77.6	41.1	J	ug/L		53	10 - 120
Hexachloroethane	2.0	U	77.6	51.0		ug/L		66	21 - 120
Indeno[1,2,3-cd]pyrene	0.63	U	77.6	88.8		ug/L		114	55 - 123
Isophorone	0.20	U	77.6	72.2		ug/L		93	60 - 120
Naphthalene	0.28	U	77.6	69.7		ug/L		90	39 - 120
Nitrobenzene	0.78	U	77.6	75.7		ug/L		98	54 - 120
N-Nitrosodimethylamine	0.28	U	77.6	70.3		ug/L		91	54 - 120
N-Nitrosodi-n-propylamine	0.34	U	77.6	71.8		ug/L		93	56 - 120
Pentachlorophenol	19	U	155	160		ug/L		103	43 - 126
Phenanthrene	0.25	U	77.6	81.2		ug/L		105	62 - 120
Phenol	1.9	U	77.6	73.7		ug/L		95	57 - 120
Pyrene	0.36	U	77.6	80.4		ug/L		104	62 - 120
Pyridine	1.6	U	77.6	56.2		ug/L		72	45 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*113*		*42 - 130*
2-Fluorobiphenyl (Surr)	*93*		*48 - 130*
2-Fluorophenol (Surr)	*93*		*41 - 130*
Nitrobenzene-d5 (Surr)	*94*		*42 - 130*
Phenol-d5 (Surr)	*92*		*45 - 130*
Terphenyl-d14 (Surr)	*101*		*20 - 130*

Lab Sample ID: 280-89785-2 MSD | **Client Sample ID: B36NJ4**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 351792 | **Prep Batch: 348544**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	1.7	U	77.8	75.0		ug/L		96	45 - 120	0	30
1,2,4-Trichlorobenzene	0.27	U	77.8	67.4		ug/L		87	28 - 120	4	30
1,2-Dichlorobenzene	0.22	U	77.8	59.2		ug/L		76	28 - 120	1	30
1,3-Dichlorobenzene	0.29	U	77.8	54.7		ug/L		70	24 - 120	4	30
1,3-Dinitrobenzene	1.9	U	77.8	90.8		ug/L		117	64 - 120	2	30
1,4-Dichlorobenzene	0.31	U	77.8	55.1		ug/L		71	25 - 120	3	30
1,4-Dioxane	1.6	U	77.8	62.6		ug/L		80	47 - 120	1	30
2,3,4,6-Tetrachlorophenol	1.9	U	77.8	89.6		ug/L		115	60 - 122	1	30
2,4,5-Trichlorophenol	0.43	U	77.8	83.4		ug/L		107	59 - 120	2	30
2,4,6-Trichlorophenol	0.28	U	77.8	82.9		ug/L		107	59 - 121	2	30
2,4-Dichlorophenol	0.62	U	77.8	79.7		ug/L		102	59 - 120	0	30
2,4-Dimethylphenol	0.56	U	77.8	46.0		ug/L		59	43 - 120	1	30
2,4-Dinitrophenol	9.6	U	156	177		ug/L		113	48 - 129	1	30
2,4-Dinitrotoluene	1.6	U	77.8	87.4		ug/L		112	66 - 124	0	30

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

Lab Sample ID: 280-89785-2 MSD
Matrix: Water
Analysis Batch: 351792

Client Sample ID: B36NJ4
Prep Type: Total/NA
Prep Batch: 348544

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dichlorophenol	1.3	U	77.8	76.0		ug/L		98	30 - 150	3	50
2,6-Dinitrotoluene	1.8	U	77.8	85.3		ug/L		110	64 - 121	1	30
2-Chloronaphthalene	0.25	U	77.8	78.4		ug/L		101	49 - 120	5	30
2-Chlorophenol	1.9	U	77.8	72.3		ug/L		93	56 - 120	2	30
2-Methylnaphthalene	0.28	U	77.8	75.3		ug/L		97	42 - 120	3	30
2-Methylphenol	0.94	U	77.8	68.6		ug/L		88	56 - 120	3	30
2-Nitroaniline	1.7	U	77.8	80.5		ug/L		104	59 - 124	0	30
2-Nitrophenol	0.38	U	77.8	78.1		ug/L		100	56 - 121	1	30
3 & 4 Methylphenol	0.24	U	77.8	73.6		ug/L		95	58 - 120	1	30
3,3'-Dichlorobenzidine	1.9	U	77.8	61.5		ug/L		79	10 - 122	3	30
3-Nitroaniline	1.9	U	77.8	59.6		ug/L		77	36 - 120	6	30
4,6-Dinitro-2-methylphenol	3.9	U	156	170		ug/L		109	60 - 126	0	30
4-Bromophenyl phenyl ether	0.41	U	77.8	78.4		ug/L		101	60 - 120	0	30
4-Chloro-3-methylphenol	2.3	U	77.8	80.1		ug/L		103	61 - 120	1	30
4-Chloroaniline	2.1	U	77.8	50.6		ug/L		65	34 - 120	12	30
4-Chlorophenyl phenyl ether	1.6	U	77.8	81.3		ug/L		105	58 - 120	4	30
4-Nitroaniline	1.9	U	77.8	80.9		ug/L		104	59 - 120	2	30
4-Nitrophenol	1.2	U	156	166		ug/L		107	59 - 129	6	30
Acenaphthene	0.27	U	77.8	79.4		ug/L		102	56 - 120	1	30
Acenaphthylene	0.47	U	77.8	78.3		ug/L		101	56 - 120	2	30
Acetophenone	0.23	U	77.8	71.6		ug/L		92	57 - 120	3	30
Aniline	1.9	U	77.8	52.1		ug/L		67	34 - 120	6	30
Anthracene	0.40	U	77.8	80.1		ug/L		103	61 - 120	1	30
Benzo[a]anthracene	0.34	U	77.8	85.5		ug/L		110	61 - 120	3	30
Benzo[a]pyrene	0.30	U	77.8	86.0		ug/L		110	59 - 120	4	30
Benzo[b]fluoranthene	0.51	U	77.8	88.6		ug/L		114	60 - 121	5	30
Benzo[g,h,i]perylene	0.48	U	77.8	90.9		ug/L		117	60 - 120	4	30
Benzo[k]fluoranthene	0.44	U	77.8	86.1		ug/L		111	62 - 120	1	30
Benzyl alcohol	0.22	U	77.8	74.5		ug/L		96	58 - 120	2	30
bis(2 chloro-1-methylethyl) ether	0.27	U	77.8	63.7		ug/L		82	49 - 120	2	30
Bis(2-chloroethoxy)methane	0.93	U	77.8	75.3		ug/L		97	57 - 120	0	30
Bis(2-chloroethyl)ether	0.40	U	77.8	70.7		ug/L		91	55 - 120	1	30
Bis(2-ethylhexyl) phthalate	0.54	U	77.8	88.4		ug/L		114	62 - 126	6	30
Butyl benzyl phthalate	0.96	U	77.8	87.2		ug/L		112	61 - 124	7	30
Carbazole	0.41	U	77.8	84.1		ug/L		108	63 - 120	1	30
Chrysene	0.52	U	77.8	86.2		ug/L		111	62 - 120	5	30
Dibenz[a,h]anthracene	0.49	U	77.8	90.4		ug/L		116	60 - 122	3	30
Dibenzofuran	0.28	U	77.8	81.7		ug/L		105	59 - 120	1	30
Diethyl phthalate	0.37	U	77.8	83.2		ug/L		107	64 - 120	1	30
Dimethyl phthalate	0.20	U	77.8	85.2		ug/L		110	61 - 120	2	30
Di-n-butyl phthalate	1.1	U	77.8	84.3		ug/L		108	62 - 120	0	30
Di-n-octyl phthalate	0.34	U	77.8	91.5		ug/L		118	58 - 125	7	30
Diphenylamine + N-Nitrosodiphenylamine	0.42	U	77.8	71.1		ug/L		91	58 - 120	1	30
Fluoranthene	0.19	U	77.8	84.7		ug/L		109	61 - 120	0	30
Fluorene	0.30	U	77.8	82.2		ug/L		106	60 - 120	1	30
Hexachlorobenzene	0.64	U	77.8	80.5		ug/L		103	61 - 120	0	30
Hexachlorobutadiene	3.2	U	77.8	64.3		ug/L		83	24 - 120	5	30

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

Lab Sample ID: 280-89785-2 MSD
Matrix: Water
Analysis Batch: 351792

Client Sample ID: B36NJ4
Prep Type: Total/NA
Prep Batch: 348544

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorocyclopentadiene	1.5	U	77.8	44.5	J	ug/L		57	10 - 120	8	50
Hexachloroethane	2.0	U	77.8	54.1		ug/L		69	21 - 120	6	30
Indeno[1,2,3-cd]pyrene	0.63	U	77.8	92.6		ug/L		119	55 - 123	4	30
Isophorone	0.20	U	77.8	73.9		ug/L		95	60 - 120	2	30
Naphthalene	0.28	U	77.8	69.6		ug/L		90	39 - 120	0	30
Nitrobenzene	0.78	U	77.8	75.2		ug/L		97	54 - 120	1	30
N-Nitrosodimethylamine	0.28	U	77.8	66.9		ug/L		86	54 - 120	5	34
N-Nitrosodi-n-propylamine	0.34	U	77.8	72.0		ug/L		93	56 - 120	0	30
Pentachlorophenol	19	U	156	162		ug/L		104	43 - 126	1	30
Phenanthrene	0.25	U	77.8	82.1		ug/L		105	62 - 120	1	30
Phenol	1.9	U	77.8	71.8		ug/L		92	57 - 120	3	30
Pyrene	0.36	U	77.8	84.1		ug/L		108	62 - 120	5	30
Pyridine	1.6	U	77.8	56.9		ug/L		73	45 - 120	1	41

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*113*		*42 - 130*
2-Fluorobiphenyl (Surr)	*96*		*48 - 130*
2-Fluorophenol (Surr)	*89*		*41 - 130*
Nitrobenzene-d5 (Surr)	*93*		*42 - 130*
Phenol-d5 (Surr)	*90*		*45 - 130*
Terphenyl-d14 (Surr)	*107*		*20 - 130*

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 280-351886/2
Matrix: Water
Analysis Batch: 351886

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens - Dup	7.7	U	30.0	7.7	ug/L			11/15/16 08:45	1

Lab Sample ID: LCS 280-351886/4
Matrix: Water
Analysis Batch: 351886

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halogens - Dup	100	107.7		ug/L		108	80 - 120

Lab Sample ID: LCSD 280-351886/5
Matrix: Water
Analysis Batch: 351886

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Halogens - Dup	100	112.6		ug/L		113	80 - 120	4	23

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-010 / W17-010 / X17-003

TestAmerica Job ID: 280-89785-1
SDG: DN0039

Method: 9020B - Organic Halides, Total (TOX) (Continued)

Lab Sample ID: 280-89785-2 MS
Matrix: Water
Analysis Batch: 351886

Client Sample ID: B36NJ4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Halogens - Dup	9.1	B N	50.0	96.03	N	ug/L		174	75 - 125		

Lab Sample ID: 280-89785-2 MSD
Matrix: Water
Analysis Batch: 351886

Client Sample ID: B36NJ4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Halogens - Dup	9.1	B N	50.0	105.9	N	ug/L		194	75 - 125	10	23

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-350757/35
Matrix: Water
Analysis Batch: 350757

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Average	166.7	B	1000	155	ug/L			11/09/16 23:44	1

Lab Sample ID: LCS 280-350757/34
Matrix: Water
Analysis Batch: 350757

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Average	25000	23370		ug/L		93	80 - 120		

Lab Sample ID: 280-89785-2 MS
Matrix: Water
Analysis Batch: 350757

Client Sample ID: B36NJ4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Average	349	B C	25000	23400		ug/L		92	75 - 125		

Lab Sample ID: 280-89785-2 MSD
Matrix: Water
Analysis Batch: 350757

Client Sample ID: B36NJ4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Average	349	B C	25000	23630		ug/L		93	75 - 125	1	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-010 / W17-010 / X17-003

TestAmerica Job ID: 280-89785-1
SDG: DN0039

GC/MS VOA

Analysis Batch: 349556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-89785-1	B36V06	Total/NA	Water	8260B	
280-89785-2	B36NJ4	Total/NA	Water	8260B	
280-89785-6	B37035	Total/NA	Water	8260B	
280-89785-7	B37036	Total/NA	Water	8260B	
280-89785-9	B36P38	Total/NA	Water	8260B	
MB 280-349556/6	Method Blank	Total/NA	Water	8260B	
LCS 280-349556/4	Lab Control Sample	Total/NA	Water	8260B	
280-89785-2 MS	B36NJ4	Total/NA	Water	8260B	
280-89785-2 MSD	B36NJ4	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 348544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-89785-2	B36NJ4	Total/NA	Water	3520C	
280-89785-8	B36P41	Total/NA	Water	3520C	
MB 280-348544/1-A	Method Blank	Total/NA	Water	3520C	
LCS 280-348544/2-A	Lab Control Sample	Total/NA	Water	3520C	
280-89785-2 MS	B36NJ4	Total/NA	Water	3520C	
280-89785-2 MSD	B36NJ4	Total/NA	Water	3520C	

Analysis Batch: 351629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-348544/2-A	Lab Control Sample	Total/NA	Water	8270D	348544

Analysis Batch: 351792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-89785-2	B36NJ4	Total/NA	Water	8270D	348544
280-89785-8	B36P41	Total/NA	Water	8270D	348544
MB 280-348544/1-A	Method Blank	Total/NA	Water	8270D	348544
280-89785-2 MS	B36NJ4	Total/NA	Water	8270D	348544
280-89785-2 MSD	B36NJ4	Total/NA	Water	8270D	348544

General Chemistry

Analysis Batch: 350757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-89785-2	B36NJ4	Total/NA	Water	9060A	
280-89785-3	B36PD7	Total/NA	Water	9060A	
280-89785-4	B36PD6	Total/NA	Water	9060A	
280-89785-5	B36PD8	Total/NA	Water	9060A	
MB 280-350757/35	Method Blank	Total/NA	Water	9060A	
LCS 280-350757/34	Lab Control Sample	Total/NA	Water	9060A	
280-89785-2 MS	B36NJ4	Total/NA	Water	9060A	
280-89785-2 MSD	B36NJ4	Total/NA	Water	9060A	

Analysis Batch: 351886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-89785-2	B36NJ4	Total/NA	Water	9020B	
280-89785-3	B36PD7	Total/NA	Water	9020B	

General Chemistry (Continued)

Analysis Batch: 351886 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-89785-4	B36PD6	Total/NA	Water	9020B	
280-89785-5	B36PD8	Total/NA	Water	9020B	
MB 280-351886/2	Method Blank	Total/NA	Water	9020B	
LCS 280-351886/4	Lab Control Sample	Total/NA	Water	9020B	
LCSD 280-351886/5	Lab Control Sample Dup	Total/NA	Water	9020B	
280-89785-2 MS	B36NJ4	Total/NA	Water	9020B	
280-89785-2 MSD	B36NJ4	Total/NA	Water	9020B	

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-010 / W17-010 / X17-003

TestAmerica Job ID: 280-89785-1
SDG: DN0039

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
280-89785-1	B36V06	92	83	99	91
280-89785-2	B36NJ4	83	71	91	78
280-89785-2 MS	B36NJ4	102	85	108	98
280-89785-2 MSD	B36NJ4	93	83	103	96
280-89785-6	B37035	97	88	104	93
280-89785-7	B37036	85	80	90	82
280-89785-9	B36P38	95	86	98	91
LCS 280-349556/4	Lab Control Sample	100	86	104	97
MB 280-349556/6	Method Blank	94	86	98	90

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(42-130)	(48-130)	(41-130)	(42-130)	(45-130)	(20-130)
280-89785-2	B36NJ4	114	104	98	99	94	109
280-89785-2 MS	B36NJ4	113	93	93	94	92	101
280-89785-2 MSD	B36NJ4	113	96	89	93	90	107
280-89785-8	B36P41	95	76	73	74	72	104
LCS 280-348544/2-A	Lab Control Sample	117	89	102	95	102	109
MB 280-348544/1-A	Method Blank	116	98	101	100	96	111

Surrogate Legend

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