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May 25, 2012

Mr. David Szymanski
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, NY 12233-7011

Subject: Groundwater and Surface Water Monitoring Results
April 2012
Mineral Springs Road MGP Site

Dear Mr. Szymanski:

This report provides the results of a groundwater and surface water sampling event completed by AECOM Technical Services, Inc. (AECOM) on April 18 and 19, 2012, at the Mineral Springs Road former manufactured gas plant (MGP) site in West Seneca (Buffalo), New York.

The work at the Mineral Springs site is being conducted under a New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Agreement (number B9-0538-98-08) as described in the Remedial Design, dated February 10, 1999, and the Final Engineering Report, Volume II – Operations and Maintenance (O&M) Plan, dated May 2002.

Summary

A total of 13 groundwater samples and two surface water samples were collected and analyzed this period as specified in the O&M Plan. Sampling locations are shown on the attached figure. The collected samples were analyzed by TestAmerica Laboratories, Inc. (TestAmerica) of Pittsburgh, Pennsylvania (New York State Department of Health [NYSDOH] Environmental Laboratory Approval Program [ELAP] ID 11182), except for free cyanide analyses which were performed by TestAmerica of Edison, NJ (ELAP ID 11452). Table 1, which is taken from the O&M Plan, summarizes the sampling and analytical requirements for the site. Analytical results are summarized in Table 2.

Consistent with the O&M Plan, four onsite (MW-7, MW-10, MW-11A, and MW-19) and one upgradient (MW-17) monitoring wells were sampled for benzene, ethylbenzene, toluene, and xylene (BTEX) and polycyclic aromatic hydrocarbon (PAH) compounds during this event. Concentrations of BTEX and/or PAH compounds exceeded NYSDEC standard or guidance values in three of the onsite groundwater samples (MW-07, MW-11A, and MW-19).

One upgradient (MW-17), two onsite (MW-12 and MW-16), four downgradient onsite (MW-13, -14, -22, and -23), and two downgradient offsite (MW-20 and MW-21) monitoring wells were sampled for total

and free cyanide analyses. Total cyanide concentrations exceeded the NYSDEC[1] Groundwater Standard of 200 micrograms per liter (µg/L) in eight of nine groundwater samples. Free cyanide was detected in all nine groundwater samples at concentrations ranging from 0.87 J to 10 µg/L. There is no NYSDEC Groundwater Standard for free cyanide.

Two onsite surface water samples (SW-01 and SW-02) were collected for BTEX, PAH, and total and free cyanide analyses. BTEX and PAH compounds were not detected in the surface water samples. Total cyanide was detected in both surface water samples at a maximum concentration of 45 µg/L, below the NYSDEC Class D surface water standard of 9,000 µg/L. Free cyanide was detected in both samples at a maximum concentration of 11 µg/L, below the NYSDEC Class D Surface Water Standard of 22 µg/L.

A total of 13 depth-to-water measurements were taken (including one surface water measurement and 12 groundwater measurements). The groundwater measurement from monitoring well MW-15 was inadvertently not collected during this round of measurements. Table 2 summarizes groundwater elevation data and Figure 1 shows groundwater elevation contours for this sampling event.

On April 18, 2012, AECOM also attempted to pump non-aqueous phase liquid (NAPL) from the dense non-aqueous phase liquid (DNAPL) recovery test well with minimal results.

Groundwater elevations

Depth-to-water measurements were collected at 12 monitoring wells and converted to elevations using reference point elevation data. The data have been used to construct the groundwater contours shown in the attached figure. A review of similar information from recent years shows that the groundwater flow direction during this event remained similar to previous sampling events. Groundwater flows onto the site from the south and east, and continues across the site in a generally west-northwesterly direction.

Sampling and analysis

Thirteen monitoring wells were purged and sampled by an AECOM sampling team this event; sampling locations are shown on the attached figure. The samples were analyzed using the following methods:

BTEX	Method SW846 8260B
PAHs	Method SW846 8270C
Cyanide (total)	Method SW846 9012A
Cyanide (free)	Method ASTM D4282-02

Groundwater and surface water sampling and analyses were conducted in accordance with AECOM's Standard Operating Procedures as provided in the project Quality Assurance Plan (QAP) of June 11, 1999. Cyanide samples were protected from light during collection to prevent the dissociation of metal-

[1] Reference for NYSDEC groundwater and surface water standards: NYSDEC Technical Operational and Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998.

cyanide compounds, which would artificially elevate free cyanide results. The cyanide samples were also treated with lead carbonate and field filtered to remove potential sulfide interferences.

Analytical results and conclusions

Laboratory results are summarized in Table 2. Laboratory reports and chain-of-custody forms are provided as an attachment. Sample locations, sampling objectives, and a discussion of the analytical results for each of the specific areas of interest at the site are provided in the following sections.

The following discussion of results and data summarized in Table 2 reflect AECOM's review of the associated quality assurance/ quality control data (blanks, duplicates, etc.) including any changes to the laboratory-reported data qualifiers, as noted in the QA/QC section of this report.

Upgradient site perimeter

Monitoring well MW-17 is located in the southeast corner of the site to monitor upgradient groundwater quality. The groundwater sample collected from MW-17 was analyzed for BTEX, PAH, and total and free cyanide. No BTEX or PAH compounds were detected. Total cyanide was detected at a concentration of 210 µg/L, above the NYSDEC Groundwater Standard value of 200 µg/L. Free cyanide was detected at a concentration of 0.98 J µg/L. These cyanide results are consistent with historic data from this well.

Downgradient site perimeter

Monitoring wells MW-20 and MW-21 are located downgradient of the western boundary of the site on Calais Street, and wells MW-13, MW-14, MW-22, and MW-23 are located just inside the northern property boundary near Mineral Springs Road. These six wells monitor groundwater quality downgradient of the site. Groundwater samples collected from these six wells were analyzed for total and free cyanide.

Five of the six wells had total cyanide concentrations above the NYSDEC Groundwater Standard of 200 µg/L. Detected concentrations ranged from 10 µg/L at MW-13 to 1,000 µg/L at MW-22. Free cyanide was detected in all six wells at concentrations ranging from 0.87 J to 5.5 µg/L. These analytical results are consistent with the range of concentrations measured in past years.

On-site purifier residuals impacted areas

Monitoring wells MW-12 and MW-16 monitor groundwater quality at locations of known subsurface deposits of purifier box residuals. These deposits were remediated by capping. Groundwater samples from these two wells were analyzed for total and free cyanide.

Both of the wells had a total cyanide groundwater concentration above the NYSDEC Groundwater Standard of 200 µg/L. Total cyanide concentrations were reported as 670 µg/L at MW-12 and 840 µg/L at MW-16. Free cyanide was detected in MW-12 at 10 µg/L and in MW-16 at 9.5 µg/L.

These results were compared with historic data from these two wells. The comparison indicates that the most recent analytical results are consistent with past results.

On-site hydrocarbon NAPL impacted areas

Monitoring wells MW-07, MW-10, MW-11A, and MW-19 monitor on-site groundwater quality downgradient of subsurface soils impacted with hydrocarbon NAPL. Samples from these wells were analyzed for BTEX and PAH compounds.

BTEX compounds were detected above NYSDEC Groundwater Standards in MW-7, MW-11A, and MW-19. BTEX compounds were not detected at MW-10. Concentrations of BTEX compounds were consistent with historical analytical data.

PAH compounds were detected above NYSDEC Groundwater Standards in MW-07 and MW-19. PAH compounds were detected in MW-11A at concentrations below NYSDEC Groundwater Standards. Concentrations measured were generally consistent with analytical results obtained in past years.

Surface water

Two surface water samples, SW-01 and SW-02, were collected from the NYSDEC Class D Stream running along the south side of the site. These surface water sampling locations monitor the effectiveness of the Eastern Drainage Ditch Cap and also monitor the concentrations of constituents of concern in surface water downstream of the Mineral Springs site. The collected samples were analyzed for BTEX, PAH compounds, and total and free cyanide.

BTEX and PAH compounds were not detected in either surface water sample.

Total cyanide was detected in SW-01 at a concentration of 16 µg/L and in SW-02 at a concentration of 45 µg/L, below the NYSDEC Class D Stream Standard of 9,000 µg/L.

Free cyanide was detected in SW-01 at a concentration of 1.5 J µg/L and in SW-02 at a concentration of 11 µg/L, below the NYSDEC Class D Stream Standard of 22 µg/L.

Quality Assurance / Quality Control (QA/QC) samples

Quality assurance/quality control samples were collected during the sampling event to meet the requirements of the Final Engineering Report – Volume II – Operations and Maintenance Plan (May 2002).

An equipment blank was prepared using analyte free blank water supplied by the analytical laboratory. All downhole tubing used to collect groundwater samples is dedicated to, and stored within, each well. Therefore, the equipment blank was collected by running the blank water through the silicone and polyethylene pump tubing at the peristaltic pump head. Toluene and free cyanide were detected in the equipment blank associated with the monitoring well samples at concentrations of 0.16 J and 1.2 J µg/L, respectively; all other compounds were non-detect.

Toluene was not detected in the laboratory method blank or in the trip blank. Toluene was detected in one monitoring well sample (MW-07) at a concentration of 77 J µg/L (and in the duplicate sample at 59 J µg/L). AECOM discussed the equipment blank results with the laboratory, which reviewed the analytical documentation. No unusual circumstances were noted and toluene was not detected in the laboratory quality assurance samples. After accounting for the 80X dilution factor, the toluene concentration in the field sample was more than 5X the concentration in the equipment blank.

Therefore, consistent with USEPA Region 2 data validation standard operating procedures (SOPs), no qualification of the sample result is required. We also note that the sample was significantly less than the groundwater and surface water standards, for this reason, the equipment blank results do not indicate a significant issue with the usability of the groundwater sample data.

In addition to the equipment blank, free cyanide was also detected in all wells where samples were analyzed for total cyanide. Free cyanide is not a common laboratory contaminant. AECOM discussed the blank results with the laboratory, which reviewed the analytical documentation. Two issues came to light regarding the free cyanide blank results.

1. Free cyanide was detected in one associated continuing calibration blank within the analytical run at a concentration of 2 µg/L. The source of this positive result was determined to be either laboratory contamination or instrument related (e.g., elevated spectrophotometer baseline). The laboratory appended a "^" flag to indicate the affected results.

2. Sample MW-12-041812 was chosen by the laboratory to be the quality control check sample for the batch. That is, the matrix spike/matrix spike duplicate (MS/MSD) sample used to evaluate the effects of matrix on the free cyanide analyses. The MS and MSD recoveries were high, at 125% and 138%. The MSD recovery exceeded the upper limit of 130% indicating a high bias attributable to matrix interference.

Given this information, all positive free cyanide results must be considered as estimated concentrations (i.e., qualified "J") because of high bias attributable to matrix effects and high instrument bias.

A trip blank sample was prepared by the laboratory and was stored in the sample cooler throughout the sampling event and during transportation back to the laboratory. The trip blank was analyzed for BTEX compounds. No BTEX compounds were detected in the trip blank.

Duplicate samples were collected from MW-07 and MW-16. The duplicate sample from MW-07 was submitted for BTEX and PAH analyses. The duplicate sample from MW-16 was submitted for total and free cyanide analyses. All duplicate sample results were within the acceptance limits as defined by the QAP except for free cyanide analyses for samples MW-16/MW-116 where the relative percent difference (RPD) was greater than 20%, at 50%. All free cyanide results must be considered as estimated concentrations (i.e., qualified "J") because of imprecision attributable to matrix effects.

Sample bottles were provided by TestAmerica Laboratories of Pittsburgh, Pennsylvania. Some sample bottles contained chemical preservatives to stabilize the sample, depending on the analysis being performed. These preservatives raise or lower the pH. All samples were received at the laboratory within the acceptable pH range and within the optimal temperature range of 4º C (degrees Celsius) ± 2º C .

DNAPL recovery test well (RTW-1)

On April 18, 2012, the Recovery System at RTW-1 was operated to assess whether DNAPL had accumulated since the August 2011 sampling event. Approximately two liters of water were pumped out. The water contained only trace NAPL in the form of "blebs", visually estimated to be less than 1% of total volume.

If you have any questions or comments, please do not hesitate to call me at (716) 836-4506 ext. 14.

Sincerely yours,

Tamara Raby
Geologist
Project Manager

Thomas P. Clark, P.E
Project Engineer

Encl: Groundwater Elevation Contours (Figure 1)
Water Sampling Summary (Table 1)
Laboratory Results Summary (Table 2)
Laboratory Reports

cc: C. Burke – NFG
T. Alexander – NFG
S. Messier – NYSDOH
R. Kennedy – Hogdson Russ LLP
T. Clark, AECOM

TABLES

Table 1
Water Sampling Summary Table
Mineral Springs Road MGP Site, April 2012

Location	Cyanide, Total	Cyanide, Free	BTEX	PAHs	Water Elevation	Benchmark Elevation
	USEPA SW846 9012A	ASTM D4282-02	USEPA SW846 8260B	USEPA SW846 8270C		(top of PVC casing)
Upgradient Site Perimeter						
MW-17	x	x	x	x	x	587.28
Downgradient Site Perimeter						
MW-13	x	x	annually	annually	x	591.85
MW-14	x	x			x	589.81
MW-15					x	590.93
MW-20	x	x			x	587.30
MW-21	x	x			x	587.88
MW-22	x	x			x	592.50
MW-23	x	x	annually	annually	x	589.28
Onsite Purifier Residuals Impacted Areas						
MW-12	x	x			x	591.40
MW-16	x	x			x	588.99
Onsite Hydrocarbon Impacted Areas						
MW-07			x	x	x	587.26
MW-10			x	x	x	587.61
MW-11			x	x	x	590.03
MW-19			x	x	x	589.83
Onsite Surface Water						
SW-01	x	x	x	x	x	top of headwall = 587.0
SW-02	x	x	x	x		
QA/QC Samples (frequency)						
Trip Blank			x			(one per shipment)
Field Duplicate	x	x	x	x		(one per event)
Equipment Blank	x	x	x	x		(one per event)
DNAPL Recovery						
RTW-1						(purge well of accumulated DNAPL)
Total	13	13	10 or 12	9 or 11	15	
Container, Preservative	500 ml plastic, NaOH	1 L plastic amber, NaOH	40 mL VOA vial, HCl (x2)	1 L glass amber, NP (x2)		

Table 2
Groundwater and Surface Water Monitoring Results
Mineral Springs Road MGP Site

April 2012

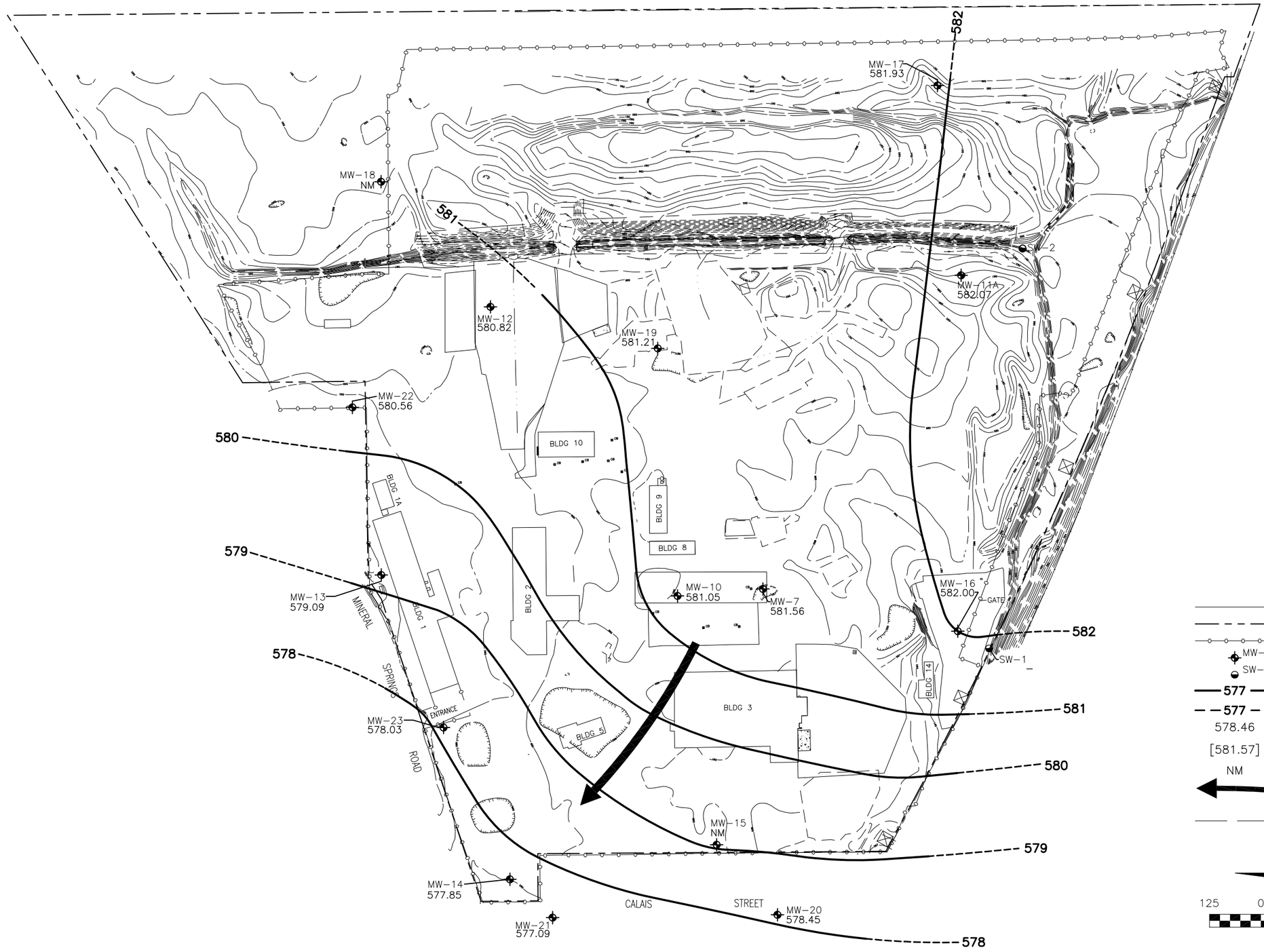
PARAMETER	GROUNDWATER															SURFACE WATER			Quality Assurance / Quality Control			
Sample ID :	***Groundwater***	**MW-07**	**MW-10**	**MW-11A**	**MW-12**	**MW-13**	**MW-14**	**MW-15**	**MW-16**	**MW-17**	**MW-19**	**MW-20**	**MW-21**	**MW-22**	**MW-23**	***Class D Stream***	**SW-01**	**SW-02**	**TB**	**EB**	**MW-07 Dup**	**MW-16 Dup**
Sample Date :	***Standard*** (1)	04/18/12	04/18/12	04/18/12	04/18/12	04/19/12	04/19/12	---	04/19/12	04/18/12	04/18/12	04/18/12	04/19/12	04/18/12	04/18/12	***Standard*** (1)	04/19/12	04/18/12	04/18/12	04/18/12	04/18/12	04/18/12
BTEX (µg/L)																						
Benzene	**1**	690	nd	31	---	---	---	---	---	nd	3800	---	---	---	---	**10**	nd	nd	nd	nd	540	nd
Toluene	**5**	77 J	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**6000**	nd	nd	nd	0.16 J	59 J	nd
Ethylbenzene	**5**	1000	nd	7.1	---	---	---	---	---	nd	190 J	---	---	---	---	**150** *	nd	nd	nd	nd	810	nd
Xylene (sum of isomers)	**5 (each)**	660	nd	4.3	---	---	---	---	---	nd	nd	---	---	---	---	**590** *	nd	nd	nd	nd	520	nd
BTEX total	---	2427	nd	42.4	---	---	---	---	---	nd	3990	---	---	---	---	---	nd	nd	nd	nd	1929	nd
PAHs (µg/L)																						
Naphthalene	**10** *	1700	nd	nd	---	---	---	---	---	nd	3200	---	---	---	---	**110** *	nd	nd	---	nd	2300	nd
Acenaphthylene	**NL** *	nd	nd	1.3 J	---	---	---	---	---	nd	nd	---	---	---	---	**NL**	nd	nd	---	nd	nd	nd
Acenaphthene	**20** *	64	nd	2.0 J	---	---	---	---	---	nd	nd	---	---	---	---	**48** *	nd	nd	---	nd	75	nd
Fluorene	**50** *	11	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**4.8** *	nd	nd	---	nd	13	nd
Phenanthrene	**50** *	11	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**45** *	nd	nd	---	nd	13	nd
Anthracene	**50** *	1.5 J	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**35** *	nd	nd	---	nd	2.0	nd
Fluoranthene	**50** *	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**NL**	nd	nd	---	nd	nd	nd
Pyrene	**50** *	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**42** *	nd	nd	---	nd	nd	nd
Benzo(a)anthracene	**0.002** *	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**0.23** *	nd	nd	---	nd	nd	nd
Chrysene	**0.002** *	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**NL**	nd	nd	---	nd	nd	nd
Benzo(b)fluoranthene	**0.002** *	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**NL**	nd	nd	---	nd	nd	nd
Benzo(k)fluoranthene	**0.002** *	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**NL**	nd	nd	---	nd	nd	nd
Benzo(a)pyrene	**NL**	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**0.0012** *	nd	nd	---	nd	nd	nd
Indeno(1,2,3-cd)pyrene	**0.002** *	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**NL**	nd	nd	---	nd	nd	nd
Dibenz(a,h)anthracene	**NL**	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**NL**	nd	nd	---	nd	nd	nd
Benzo(g,h,i)perylene	**NL**	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**NL**	nd	nd	---	nd	nd	nd
2-Methylnaphthalene	**NL**	nd	nd	nd	---	---	---	---	---	nd	nd	---	---	---	---	**NL**	nd	nd	---	nd	nd	nd
PAHs total	---	1787.5	nd	3.3	---	---	---	---	---	nd	3200	---	---	---	---	---	nd	nd	---	nd	2403	nd
CYANIDE (µg/L)																						
Cyanide, total	**200**	---	---	---	670	10	610	---	840	210	---	790	480	1,000	220	**9,000**	16	45	---	nd	---	730
Cyanide, free	**NL**	---	---	---	10 J	0.87 J	1.7 J	---	9.5 J	0.98 J	---	2.2 J	1.6 J	5.5 J	2.4 J	**22**	1.5 J	11 J	---	1.2 J	---	5.7 J
Water Elevation (feet)	**NL**	581.56	581.05	582.07	580.82	579.09	577.85	---	582.00	581.93	581.21	578.45	577.09	580.56	578.03	**NL**	581.6	---	---	---	---	---

Notes:

NL Not listed
nd Not detected above method detection limit
--- Not analyzed
TB Trip Blank
EB Equipment Blank
J Indicates laboratory estimated value
B The compound was detected in the associated method blank.

(1) NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1)
* Groundwater or Surface Water Guidance Value (no Standard value listed)
Concentrations exceeding NYSDEC regulatory standard or guidance value

FIGURE



LEGEND

- CURRENT SITE FEATURE
- PROPERTY BOUNDARY
- FENCELINE
- MW-16 MONITORING WELLS
- SW-01 SURFACE WATER SAMPLE LOCATION
- 577 GROUNDWATER ELEVATION CONTOUR (ft. MSL)
- 577 (DASHED WHERE INFERRED)
- 578.46 GROUNDWATER ELEVATION (ft. MSL)
- [581.57] GROUNDWATER ELEVATION (ft. MSL) NOT USED TO CONTOUR
- NM NOT MEASURED
- GENERALIZED DIRECTION GROUNDWATER FLOW
- GROUND SURFACE ELEVATION CONTOUR INTERVAL: 1'

125 0 250

1"=250'

AECOM

NATIONAL FUEL GAS MINERAL SPRINGS ROAD MGP SITE 60137322-300			**GROUNDWATER ELEVATION CONTOURS APRIL 2012**
DATE: 5/2012	DRWN: BcV/W-MA		**FIGURE 1**

LABORATORY ANALYTICAL RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-10000-1
Client Project/Site: AECOM, Mineral Springs

For:
AECOM, Inc.
1001 West Seneca Street
Suite 204
Ithaca, New York 14850

Attn: Ms. Helen Jones

Whitney Ritari

Authorized for release by:
5/8/2012 6:06:58 PM

Whitney Ritari
Project Manager I
whitney.ritari@testamericainc.com

Table of Contents

Job ID: 180-10000-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-10000-1

Receipt
The samples were received on 4/20/2012 9:15 AM; the samples arrived in good conditions, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.60 C, 2.80 C, 3.00 C and 3.30 C.

GC/MS VOA
Method 8260B: The following samples were diluted due to the abundance of target analytes: DUPLICATE-041812 (180-10000-14), MW-07-041812 (180-10000-1), and MW-19-041812 (180-10000-9). Elevated reporting limits (RLs) are provided. Batch #34171.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: The following samples were diluted due to the abundance of target analytes: MW-07-041812 (180-10000-1), DUPLICATE-041812 (180-10000-14), and MW-19-041812 (180-10000-9). Elevated reporting limits (RLs) are provided. The following sample was diluted due to the nature of the sample matrix: MW-07-041812 (180-10000-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
Method 335.4: The following samples were diluted due to the abundance of target analytes: MW-12-041812 (180-10000-4), MW-20-041812 (180-10000-10), MW-22-041812 (180-10000-12), MW-116-041912 (180-10000-15), MW-14-041912 (180-10000-6), and MW-16-041912 (180-10000-7). Elevated reporting limits (RLs) are provided.

Method 9016: The concentration of the CCB is at the RL of 2 ppb therefore, the data is flagged. The matrix spike (MS) recovery for batch 111160 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: AECOM, Mineral Springs

TestAmerica Job ID: 180-10000-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Pittsburgh	Arkansas DEQ	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAC	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAC	4	E871008
TestAmerica Pittsburgh	Illinois	NELAC	5	002602
TestAmerica Pittsburgh	Kansas	NELAC	7	E-10350
TestAmerica Pittsburgh	L-A-B	DoD ELAP		L2314
TestAmerica Pittsburgh	Louisiana	NELAC	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAC	1	203011
TestAmerica Pittsburgh	New Jersey	NELAC	2	PA005
TestAmerica Pittsburgh	New York	NELAC	2	11182
TestAmerica Pittsburgh	North Carolina DENR	State Program	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAC	3	02-00416
TestAmerica Pittsburgh	Pennsylvania	State Program	3	02-416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014002
TestAmerica Pittsburgh	USDA	Federal		P330-10-00139
TestAmerica Pittsburgh	USDA	Federal		P-Soil-01
TestAmerica Pittsburgh	Utah	NELAC	8	STLP
TestAmerica Pittsburgh	Virginia	NELAC	3	460189
TestAmerica Pittsburgh	West Virginia DEP	State Program	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800
TestAmerica Edison	Connecticut	State Program	1	PH-0200
TestAmerica Edison	DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A
TestAmerica Edison	New Jersey	NELAC	2	12028
TestAmerica Edison	New York	NELAC	2	11452
TestAmerica Edison	Pennsylvania	NELAC	3	68-00522
TestAmerica Edison	Rhode Island	State Program	1	LAO00132
TestAmerica Edison	USDA	Federal		NJCA-003-08

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sample Summary

Client: AECOM, Inc.
Project/Site: AECOM, Mineral Springs

TestAmerica Job ID: 180-10000-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-10000-1	MW-07-041812	Water	04/18/12 11:00	04/20/12 09:15
180-10000-2	MW-10-041812	Water	04/18/12 11:00	04/20/12 09:15
180-10000-3	MW-11A-041812	Water	04/18/12 12:00	04/20/12 09:15
180-10000-4	MW-12-041812	Water	04/18/12 14:45	04/20/12 09:15
180-10000-5	MW-13-041912	Water	04/19/12 10:45	04/20/12 09:15
180-10000-6	MW-14-041912	Water	04/19/12 10:45	04/20/12 09:15
180-10000-7	MW-16-041912	Water	04/19/12 09:30	04/20/12 09:15
180-10000-8	MW-17-041812	Water	04/18/12 13:00	04/20/12 09:15
180-10000-9	MW-19-041812	Water	04/18/12 13:45	04/20/12 09:15
180-10000-10	MW-20-041812	Water	04/18/12 16:10	04/20/12 09:15
180-10000-11	MW-21-041912	Water	04/19/12 09:40	04/20/12 09:15
180-10000-12	MW-22-041812	Water	04/18/12 16:15	04/20/12 09:15
180-10000-13	MW-23-041812	Water	04/18/12 12:30	04/20/12 09:15
180-10000-14	DUPLICATE-041812	Water	04/18/12 09:00	04/20/12 09:15
180-10000-15	MW-116-041912	Water	04/19/12 09:25	04/20/12 09:15
180-10000-16	SW-01-041912	Water	04/19/12 09:40	04/20/12 09:15
180-10000-17	SW-02-041812	Water	04/18/12 11:45	04/20/12 09:15
180-10000-18	TRIP BLANK-041812	Water	04/18/12 00:00	04/20/12 09:15
180-10000-19	RINSE BLANK-041812	Water	04/18/12 12:45	04/20/12 09:15

Method Summary

Client: AECOM, Inc.
Project/Site: AECOM, Mineral Springs

TestAmerica Job ID: 180-10000-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
335.4	Cyanide, Total	MCAWW	TAL PIT
9016	Cyanide, Free	SW846	TAL EDI

Protocol References:

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

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client: AECOM, Inc.
Project/Site: AECOM, Mineral Springs

TestAmerica Job ID: 180-10000-1

Client Sample ID: MW-07-041812
Date Collected: 04/18/12 11:00
Date Received: 04/20/12 09:15

Lab Sample ID: 180-10000-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**690**		80	8.4	ug/L			04/25/12 14:20	80
Ethylbenzene	**1000**		80	18	ug/L			04/25/12 14:20	80
Toluene	**77**	**J**	80	12	ug/L			04/25/12 14:20	80
Xylenes, Total	**660**		240	39	ug/L			04/25/12 14:20	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*64 - 135*		*04/25/12 14:20*	*80*
Toluene-d8 (Surr)	*100*		*71 - 118*		*04/25/12 14:20*	*80*
4-Bromofluorobenzene (Surr)	*92*		*70 - 118*		*04/25/12 14:20*	*80*
Dibromofluoromethane (Surr)	*112*		*70 - 128*		*04/25/12 14:20*	*80*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**64**		1.9	0.14	ug/L		04/23/12 08:51	04/24/12 15:14	1
Acenaphthene	**86**		19	1.4	ug/L		04/23/12 08:51	04/26/12 22:41	10
Acenaphthylene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:14	1
Acenaphthylene	ND		19	1.5	ug/L		04/23/12 08:51	04/26/12 22:41	10
Anthracene	**1.5**	**J**	1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:14	1
Anthracene	**2.7**	**J**	19	1.5	ug/L		04/23/12 08:51	04/26/12 22:41	10
Benzo[a]anthracene	ND		1.9	0.14	ug/L		04/23/12 08:51	04/24/12 15:14	1
Benzo[a]anthracene	ND		19	1.4	ug/L		04/23/12 08:51	04/26/12 22:41	10
Benzo[a]pyrene	ND		1.9	0.13	ug/L		04/23/12 08:51	04/24/12 15:14	1
Benzo[a]pyrene	ND		19	1.3	ug/L		04/23/12 08:51	04/26/12 22:41	10
Benzo[b]fluoranthene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:14	1
Benzo[b]fluoranthene	ND		19	1.5	ug/L		04/23/12 08:51	04/26/12 22:41	10
Benzo[g,h,i]perylene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:14	1
Benzo[g,h,i]perylene	ND		19	1.5	ug/L		04/23/12 08:51	04/26/12 22:41	10
Benzo[k]fluoranthene	ND		1.9	0.53	ug/L		04/23/12 08:51	04/24/12 15:14	1
Benzo[k]fluoranthene	ND		19	5.3	ug/L		04/23/12 08:51	04/26/12 22:41	10
Chrysene	ND		1.9	0.13	ug/L		04/23/12 08:51	04/24/12 15:14	1
Chrysene	ND		19	1.3	ug/L		04/23/12 08:51	04/26/12 22:41	10
Dibenz(a,h)anthracene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:14	1
Dibenz(a,h)anthracene	ND		19	1.5	ug/L		04/23/12 08:51	04/26/12 22:41	10
Fluoranthene	ND		1.9	0.16	ug/L		04/23/12 08:51	04/24/12 15:14	1
Fluoranthene	ND		19	1.6	ug/L		04/23/12 08:51	04/26/12 22:41	10
Fluorene	**11**		1.9	0.21	ug/L		04/23/12 08:51	04/24/12 15:14	1
Fluorene	**18**	**J**	19	2.1	ug/L		04/23/12 08:51	04/26/12 22:41	10
Indeno[1,2,3-cd]pyrene	ND		1.9	0.19	ug/L		04/23/12 08:51	04/24/12 15:14	1
Indeno[1,2,3-cd]pyrene	ND		19	1.9	ug/L		04/23/12 08:51	04/26/12 22:41	10
Naphthalene	**1000**	**E**	1.9	0.13	ug/L		04/23/12 08:51	04/24/12 15:14	1
Naphthalene	**1700**		19	1.3	ug/L		04/23/12 08:51	04/26/12 22:41	10
Phenanthrene	**11**		1.9	0.41	ug/L		04/23/12 08:51	04/24/12 15:14	1
Phenanthrene	**15**	**J**	19	4.1	ug/L		04/23/12 08:51	04/26/12 22:41	10
Pyrene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:14	1
Pyrene	ND		19	1.5	ug/L		04/23/12 08:51	04/26/12 22:41	10

Client Sample ID: MW-10-041812

Lab Sample ID: 180-10000-2

Date Collected: 04/18/12 11:00

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.11	ug/L			04/25/12 14:43	1
Ethylbenzene	ND		1.0	0.23	ug/L			04/25/12 14:43	1
Toluene	ND		1.0	0.15	ug/L			04/25/12 14:43	1
Xylenes, Total	ND		3.0	0.49	ug/L			04/25/12 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*64 - 135*		*04/25/12 14:43*	*1*
Toluene-d8 (Surr)	*103*		*71 - 118*		*04/25/12 14:43*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 118*		*04/25/12 14:43*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 128*		*04/25/12 14:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.14	ug/L		04/23/12 08:51	04/24/12 15:36	1
Acenaphthylene	ND		1.9	0.14	ug/L		04/23/12 08:51	04/24/12 15:36	1
Anthracene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:36	1
Benzo[a]anthracene	ND		1.9	0.14	ug/L		04/23/12 08:51	04/24/12 15:36	1
Benzo[a]pyrene	ND		1.9	0.13	ug/L		04/23/12 08:51	04/24/12 15:36	1
Benzo[b]fluoranthene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:36	1
Benzo[g,h,i]perylene	ND		1.9	0.14	ug/L		04/23/12 08:51	04/24/12 15:36	1
Benzo[k]fluoranthene	ND		1.9	0.52	ug/L		04/23/12 08:51	04/24/12 15:36	1
Chrysene	ND		1.9	0.13	ug/L		04/23/12 08:51	04/24/12 15:36	1
Dibenz(a,h)anthracene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:36	1
Fluoranthene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:36	1
Fluorene	ND		1.9	0.21	ug/L		04/23/12 08:51	04/24/12 15:36	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.19	ug/L		04/23/12 08:51	04/24/12 15:36	1
Naphthalene	ND		1.9	0.13	ug/L		04/23/12 08:51	04/24/12 15:36	1
Phenanthrene	ND		1.9	0.41	ug/L		04/23/12 08:51	04/24/12 15:36	1
Pyrene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 15:36	1

Client Sample ID: MW-11A-041812

Lab Sample ID: 180-10000-3

Date Collected: 04/18/12 12:00

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**31**		1.0	0.11	ug/L			04/25/12 15:07	1
Ethylbenzene	**7.1**		1.0	0.23	ug/L			04/25/12 15:07	1
Toluene	ND		1.0	0.15	ug/L			04/25/12 15:07	1
Xylenes, Total	**4.3**		3.0	0.49	ug/L			04/25/12 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*64 - 135*		*04/25/12 15:07*	*1*
Toluene-d8 (Surr)	*103*		*71 - 118*		*04/25/12 15:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 118*		*04/25/12 15:07*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 128*		*04/25/12 15:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**2.0**	**J**	2.2	0.16	ug/L		04/23/12 08:51	04/24/12 15:59	1
Acenaphthylene	**1.3**	**J**	2.2	0.17	ug/L		04/23/12 08:51	04/24/12 15:59	1
Anthracene	ND		2.2	0.17	ug/L		04/23/12 08:51	04/24/12 15:59	1

Client: AECOM, Inc.
Project/Site: AECOM, Mineral Springs

TestAmerica Job ID: 180-10000-1

Client Sample ID: MW-11A-041812

Lab Sample ID: 180-10000-3

Date Collected: 04/18/12 12:00

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		2.2	0.16	ug/L		04/23/12 08:51	04/24/12 15:59	1
Benzo[a]pyrene	ND		2.2	0.15	ug/L		04/23/12 08:51	04/24/12 15:59	1
Benzo[b]fluoranthene	ND		2.2	0.17	ug/L		04/23/12 08:51	04/24/12 15:59	1
Benzo[g,h,i]perylene	ND		2.2	0.16	ug/L		04/23/12 08:51	04/24/12 15:59	1
Benzo[k]fluoranthene	ND		2.2	0.59	ug/L		04/23/12 08:51	04/24/12 15:59	1
Chrysene	ND		2.2	0.15	ug/L		04/23/12 08:51	04/24/12 15:59	1
Dibenz(a,h)anthracene	ND		2.2	0.17	ug/L		04/23/12 08:51	04/24/12 15:59	1
Fluoranthene	ND		2.2	0.18	ug/L		04/23/12 08:51	04/24/12 15:59	1
Fluorene	ND		2.2	0.23	ug/L		04/23/12 08:51	04/24/12 15:59	1
Indeno[1,2,3-cd]pyrene	ND		2.2	0.22	ug/L		04/23/12 08:51	04/24/12 15:59	1
Naphthalene	ND		2.2	0.15	ug/L		04/23/12 08:51	04/24/12 15:59	1
Phenanthrene	ND		2.2	0.46	ug/L		04/23/12 08:51	04/24/12 15:59	1
Pyrene	ND		2.2	0.17	ug/L		04/23/12 08:51	04/24/12 15:59	1

Client Sample ID: MW-12-041812

Lab Sample ID: 180-10000-4

Date Collected: 04/18/12 14:45

Matrix: Water

Date Received: 04/20/12 09:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.67		0.10	0.016	mg/L		05/01/12 10:05	05/01/12 14:21	10
Cyanide, Free	10	^	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: MW-13-041912

Lab Sample ID: 180-10000-5

Date Collected: 04/19/12 10:45

Matrix: Water

Date Received: 04/20/12 09:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010		0.010	0.0016	mg/L		05/03/12 08:25	05/03/12 10:37	1
Cyanide, Free	0.87	J ^	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: MW-14-041912

Lab Sample ID: 180-10000-6

Date Collected: 04/19/12 10:45

Matrix: Water

Date Received: 04/20/12 09:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.61		0.10	0.016	mg/L		05/03/12 08:25	05/03/12 11:02	10
Cyanide, Free	1.7	J ^	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: MW-16-041912

Lab Sample ID: 180-10000-7

Date Collected: 04/19/12 09:30

Matrix: Water

Date Received: 04/20/12 09:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.84		0.10	0.016	mg/L		05/03/12 08:25	05/03/12 11:02	10
Cyanide, Free	9.5		2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: MW-17-041812

Lab Sample ID: 180-10000-8

Date Collected: 04/18/12 13:00

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.11	ug/L			04/25/12 15:31	1
Ethylbenzene	ND		1.0	0.23	ug/L			04/25/12 15:31	1
Toluene	ND		1.0	0.15	ug/L			04/25/12 15:31	1
Xylenes, Total	ND		3.0	0.49	ug/L			04/25/12 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*64 - 135*		*04/25/12 15:31*	*1*
Toluene-d8 (Surr)	*102*		*71 - 118*		*04/25/12 15:31*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 118*		*04/25/12 15:31*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 128*		*04/25/12 15:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.3	0.17	ug/L		04/23/12 08:51	04/24/12 16:21	1
Acenaphthylene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:21	1
Anthracene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:21	1
Benzo[a]anthracene	ND		2.3	0.17	ug/L		04/23/12 08:51	04/24/12 16:21	1
Benzo[a]pyrene	ND		2.3	0.16	ug/L		04/23/12 08:51	04/24/12 16:21	1
Benzo[b]fluoranthene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:21	1
Benzo[g,h,i]perylene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:21	1
Benzo[k]fluoranthene	ND		2.3	0.64	ug/L		04/23/12 08:51	04/24/12 16:21	1
Chrysene	ND		2.3	0.16	ug/L		04/23/12 08:51	04/24/12 16:21	1
Dibenz(a,h)anthracene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:21	1
Fluoranthene	ND		2.3	0.19	ug/L		04/23/12 08:51	04/24/12 16:21	1
Fluorene	ND		2.3	0.25	ug/L		04/23/12 08:51	04/24/12 16:21	1
Indeno[1,2,3-cd]pyrene	ND		2.3	0.23	ug/L		04/23/12 08:51	04/24/12 16:21	1
Naphthalene	ND		2.3	0.16	ug/L		04/23/12 08:51	04/24/12 16:21	1
Phenanthrene	ND		2.3	0.50	ug/L		04/23/12 08:51	04/24/12 16:21	1
Pyrene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.21**		0.010	0.0016	mg/L		05/01/12 10:05	05/01/12 13:40	1
Cyanide, Free	**0.98**	**J ^**	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: MW-19-041812

Lab Sample ID: 180-10000-9

Date Collected: 04/18/12 13:45

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3800**		250	26	ug/L			04/25/12 15:54	250
Ethylbenzene	**190**	**J**	250	57	ug/L			04/25/12 15:54	250
Toluene	ND		250	38	ug/L			04/25/12 15:54	250
Xylenes, Total	ND		750	120	ug/L			04/25/12 15:54	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*64 - 135*		*04/25/12 15:54*	*250*
Toluene-d8 (Surr)	*99*		*71 - 118*		*04/25/12 15:54*	*250*
4-Bromofluorobenzene (Surr)	*87*		*70 - 118*		*04/25/12 15:54*	*250*
Dibromofluoromethane (Surr)	*107*		*70 - 128*		*04/25/12 15:54*	*250*

Client Sample ID: MW-19-041812

Lab Sample ID: 180-10000-9

Date Collected: 04/18/12 13:45

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.3	0.17	ug/L		04/23/12 08:51	04/24/12 16:43	1
Acenaphthylene	ND		2.3	0.17	ug/L		04/23/12 08:51	04/24/12 16:43	1
Anthracene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:43	1
Benzo[a]anthracene	ND		2.3	0.17	ug/L		04/23/12 08:51	04/24/12 16:43	1
Benzo[a]pyrene	ND		2.3	0.15	ug/L		04/23/12 08:51	04/24/12 16:43	1
Benzo[b]fluoranthene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:43	1
Benzo[g,h,i]perylene	ND		2.3	0.17	ug/L		04/23/12 08:51	04/24/12 16:43	1
Benzo[k]fluoranthene	ND		2.3	0.63	ug/L		04/23/12 08:51	04/24/12 16:43	1
Chrysene	ND		2.3	0.16	ug/L		04/23/12 08:51	04/24/12 16:43	1
Dibenz(a,h)anthracene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:43	1
Fluoranthene	ND		2.3	0.19	ug/L		04/23/12 08:51	04/24/12 16:43	1
Fluorene	ND		2.3	0.25	ug/L		04/23/12 08:51	04/24/12 16:43	1
Indeno[1,2,3-cd]pyrene	ND		2.3	0.23	ug/L		04/23/12 08:51	04/24/12 16:43	1
Naphthalene	**1700**	**E**	2.3	0.16	ug/L		04/23/12 08:51	04/24/12 16:43	1
Phenanthrene	ND		2.3	0.49	ug/L		04/23/12 08:51	04/24/12 16:43	1
Pyrene	ND		2.3	0.18	ug/L		04/23/12 08:51	04/24/12 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		46	3.3	ug/L		04/23/12 08:51	04/25/12 19:28	20
Acenaphthylene	ND		46	3.5	ug/L		04/23/12 08:51	04/25/12 19:28	20
Anthracene	ND		46	3.5	ug/L		04/23/12 08:51	04/25/12 19:28	20
Benzo[a]anthracene	ND		46	3.4	ug/L		04/23/12 08:51	04/25/12 19:28	20
Benzo[a]pyrene	ND		46	3.1	ug/L		04/23/12 08:51	04/25/12 19:28	20
Benzo[b]fluoranthene	ND		46	3.6	ug/L		04/23/12 08:51	04/25/12 19:28	20
Benzo[g,h,i]perylene	ND		46	3.5	ug/L		04/23/12 08:51	04/25/12 19:28	20
Benzo[k]fluoranthene	ND		46	13	ug/L		04/23/12 08:51	04/25/12 19:28	20
Chrysene	ND		46	3.2	ug/L		04/23/12 08:51	04/25/12 19:28	20
Dibenz(a,h)anthracene	ND		46	3.6	ug/L		04/23/12 08:51	04/25/12 19:28	20
Fluoranthene	ND		46	3.7	ug/L		04/23/12 08:51	04/25/12 19:28	20
Fluorene	ND		46	5.0	ug/L		04/23/12 08:51	04/25/12 19:28	20
Indeno[1,2,3-cd]pyrene	ND		46	4.6	ug/L		04/23/12 08:51	04/25/12 19:28	20
Naphthalene	**3200**		46	3.2	ug/L		04/23/12 08:51	04/25/12 19:28	20
Phenanthrene	ND		46	9.8	ug/L		04/23/12 08:51	04/25/12 19:28	20
Pyrene	ND		46	3.6	ug/L		04/23/12 08:51	04/25/12 19:28	20

Client Sample ID: MW-20-041812

Lab Sample ID: 180-10000-10

Date Collected: 04/18/12 16:10

Matrix: Water

Date Received: 04/20/12 09:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.79**		0.10	0.016	mg/L		05/01/12 10:05	05/01/12 14:21	10
Cyanide, Free	**2.2**	**^**	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: MW-21-041912

Lab Sample ID: 180-10000-11

Date Collected: 04/19/12 09:40

Matrix: Water

Date Received: 04/20/12 09:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.48**		0.010	0.0016	mg/L		05/03/12 08:25	05/03/12 10:37	1

Client Sample ID: MW-21-041912

Lab Sample ID: 180-10000-11

Date Collected: 04/19/12 09:40
Matrix: Water
Date Received: 04/20/12 09:15

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	1.6	J	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: MW-22-041812

Lab Sample ID: 180-10000-12

Date Collected: 04/18/12 16:15
Matrix: Water
Date Received: 04/20/12 09:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1.0		0.10	0.016	mg/L		05/01/12 10:05	05/01/12 14:21	10
Cyanide, Free	5.5	^	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: MW-23-041812

Lab Sample ID: 180-10000-13

Date Collected: 04/18/12 12:30
Matrix: Water
Date Received: 04/20/12 09:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.22		0.010	0.0016	mg/L		05/01/12 10:05	05/01/12 13:48	1
Cyanide, Free	2.4	^	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: DUPLICATE-041812

Lab Sample ID: 180-10000-14

Date Collected: 04/18/12 09:00
Matrix: Water
Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	540		80	8.4	ug/L			04/25/12 16:18	80
Ethylbenzene	810		80	18	ug/L			04/25/12 16:18	80
Toluene	59	J	80	12	ug/L			04/25/12 16:18	80
Xylenes, Total	520		240	39	ug/L			04/25/12 16:18	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*64 - 135*		*04/25/12 16:18*	*80*
Toluene-d8 (Surr)	*104*		*71 - 118*		*04/25/12 16:18*	*80*
4-Bromofluorobenzene (Surr)	*96*		*70 - 118*		*04/25/12 16:18*	*80*
Dibromofluoromethane (Surr)	*111*		*70 - 128*		*04/25/12 16:18*	*80*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	75		1.9	0.14	ug/L		04/23/12 08:51	04/24/12 17:06	1
Acenaphthylene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 17:06	1
Anthracene	2.0		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 17:06	1
Benzo[a]anthracene	ND		1.9	0.14	ug/L		04/23/12 08:51	04/24/12 17:06	1
Benzo[a]pyrene	ND		1.9	0.13	ug/L		04/23/12 08:51	04/24/12 17:06	1
Benzo[b]fluoranthene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 17:06	1
Benzo[g,h,i]perylene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 17:06	1
Benzo[k]fluoranthene	ND		1.9	0.53	ug/L		04/23/12 08:51	04/24/12 17:06	1
Chrysene	ND		1.9	0.13	ug/L		04/23/12 08:51	04/24/12 17:06	1
Dibenz(a,h)anthracene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 17:06	1
Fluoranthene	ND		1.9	0.16	ug/L		04/23/12 08:51	04/24/12 17:06	1
Fluorene	13		1.9	0.21	ug/L		04/23/12 08:51	04/24/12 17:06	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.19	ug/L		04/23/12 08:51	04/24/12 17:06	1

Client Sample ID: DUPLICATE-041812

Lab Sample ID: 180-10000-14

Date Collected: 04/18/12 09:00

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1300**	**E**	1.9	0.13	ug/L		04/23/12 08:51	04/24/12 17:06	1
Phenanthrene	**13**		1.9	0.41	ug/L		04/23/12 08:51	04/24/12 17:06	1
Pyrene	ND		1.9	0.15	ug/L		04/23/12 08:51	04/24/12 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**88**		38	2.8	ug/L		04/23/12 08:51	04/25/12 19:51	20
Acenaphthylene	ND		38	2.9	ug/L		04/23/12 08:51	04/25/12 19:51	20
Anthracene	ND		38	3.0	ug/L		04/23/12 08:51	04/25/12 19:51	20
Benzo[a]anthracene	ND		38	2.8	ug/L		04/23/12 08:51	04/25/12 19:51	20
Benzo[a]pyrene	ND		38	2.6	ug/L		04/23/12 08:51	04/25/12 19:51	20
Benzo[b]fluoranthene	ND		38	3.0	ug/L		04/23/12 08:51	04/25/12 19:51	20
Benzo[g,h,i]perylene	ND		38	2.9	ug/L		04/23/12 08:51	04/25/12 19:51	20
Benzo[k]fluoranthene	ND		38	11	ug/L		04/23/12 08:51	04/25/12 19:51	20
Chrysene	ND		38	2.7	ug/L		04/23/12 08:51	04/25/12 19:51	20
Dibenz(a,h)anthracene	ND		38	3.0	ug/L		04/23/12 08:51	04/25/12 19:51	20
Fluoranthene	ND		38	3.1	ug/L		04/23/12 08:51	04/25/12 19:51	20
Fluorene	**16**	**J**	38	4.2	ug/L		04/23/12 08:51	04/25/12 19:51	20
Indeno[1,2,3-cd]pyrene	ND		38	3.8	ug/L		04/23/12 08:51	04/25/12 19:51	20
Naphthalene	**2300**		38	2.7	ug/L		04/23/12 08:51	04/25/12 19:51	20
Phenanthrene	**17**	**J**	38	8.2	ug/L		04/23/12 08:51	04/25/12 19:51	20
Pyrene	ND		38	3.0	ug/L		04/23/12 08:51	04/25/12 19:51	20

Client Sample ID: MW-116-041912

Lab Sample ID: 180-10000-15

Date Collected: 04/19/12 09:25

Matrix: Water

Date Received: 04/20/12 09:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.73**		0.10	0.016	mg/L		05/03/12 08:25	05/03/12 11:07	10
Cyanide, Free	**5.7**		2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: SW-01-041912

Lab Sample ID: 180-10000-16

Date Collected: 04/19/12 09:40

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.11	ug/L			04/25/12 16:41	1
Ethylbenzene	ND		1.0	0.23	ug/L			04/25/12 16:41	1
Toluene	ND		1.0	0.15	ug/L			04/25/12 16:41	1
Xylenes, Total	ND		3.0	0.49	ug/L			04/25/12 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*64 - 135*		*04/25/12 16:41*	*1*
Toluene-d8 (Surr)	*101*		*71 - 118*		*04/25/12 16:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 118*		*04/25/12 16:41*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 128*		*04/25/12 16:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.0	0.15	ug/L		04/23/12 08:51	04/24/12 17:28	1

Client: AECOM, Inc.
Project/Site: AECOM, Mineral Springs

TestAmerica Job ID: 180-10000-1

Client Sample ID: SW-01-041912

Lab Sample ID: 180-10000-16

Date Collected: 04/19/12 09:40

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		2.0	0.16	ug/L		04/23/12 08:51	04/24/12 17:28	1
Anthracene	ND		2.0	0.16	ug/L		04/23/12 08:51	04/24/12 17:28	1
Benzo[a]anthracene	ND		2.0	0.15	ug/L		04/23/12 08:51	04/24/12 17:28	1
Benzo[a]pyrene	ND		2.0	0.14	ug/L		04/23/12 08:51	04/24/12 17:28	1
Benzo[b]fluoranthene	ND		2.0	0.16	ug/L		04/23/12 08:51	04/24/12 17:28	1
Benzo[g,h,i]perylene	ND		2.0	0.15	ug/L		04/23/12 08:51	04/24/12 17:28	1
Benzo[k]fluoranthene	ND		2.0	0.56	ug/L		04/23/12 08:51	04/24/12 17:28	1
Chrysene	ND		2.0	0.14	ug/L		04/23/12 08:51	04/24/12 17:28	1
Dibenz(a,h)anthracene	ND		2.0	0.16	ug/L		04/23/12 08:51	04/24/12 17:28	1
Fluoranthene	ND		2.0	0.17	ug/L		04/23/12 08:51	04/24/12 17:28	1
Fluorene	ND		2.0	0.22	ug/L		04/23/12 08:51	04/24/12 17:28	1
Indeno[1,2,3-cd]pyrene	ND		2.0	0.20	ug/L		04/23/12 08:51	04/24/12 17:28	1
Naphthalene	ND		2.0	0.14	ug/L		04/23/12 08:51	04/24/12 17:28	1
Phenanthrene	ND		2.0	0.44	ug/L		04/23/12 08:51	04/24/12 17:28	1
Pyrene	ND		2.0	0.16	ug/L		04/23/12 08:51	04/24/12 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.016**		0.010	0.0016	mg/L		05/03/12 08:25	05/03/12 10:44	1
Cyanide, Free	**1.5**	**J**	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: SW-02-041812

Lab Sample ID: 180-10000-17

Date Collected: 04/18/12 11:45

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.11	ug/L			04/25/12 17:05	1
Ethylbenzene	ND		1.0	0.23	ug/L			04/25/12 17:05	1
Toluene	ND		1.0	0.15	ug/L			04/25/12 17:05	1
Xylenes, Total	ND		3.0	0.49	ug/L			04/25/12 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*64 - 135*		*04/25/12 17:05*	*1*
Toluene-d8 (Surr)	*102*		*71 - 118*		*04/25/12 17:05*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 118*		*04/25/12 17:05*	*1*
Dibromofluoromethane (Surr)	*115*		*70 - 128*		*04/25/12 17:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.0	0.15	ug/L		04/23/12 08:53	04/24/12 17:51	1
Acenaphthylene	ND		2.0	0.15	ug/L		04/23/12 08:53	04/24/12 17:51	1
Anthracene	ND		2.0	0.16	ug/L		04/23/12 08:53	04/24/12 17:51	1
Benzo[a]anthracene	ND		2.0	0.15	ug/L		04/23/12 08:53	04/24/12 17:51	1
Benzo[a]pyrene	ND		2.0	0.14	ug/L		04/23/12 08:53	04/24/12 17:51	1
Benzo[b]fluoranthene	ND		2.0	0.16	ug/L		04/23/12 08:53	04/24/12 17:51	1
Benzo[g,h,i]perylene	ND		2.0	0.15	ug/L		04/23/12 08:53	04/24/12 17:51	1
Benzo[k]fluoranthene	ND		2.0	0.55	ug/L		04/23/12 08:53	04/24/12 17:51	1
Chrysene	ND		2.0	0.14	ug/L		04/23/12 08:53	04/24/12 17:51	1
Dibenz(a,h)anthracene	ND		2.0	0.16	ug/L		04/23/12 08:53	04/24/12 17:51	1
Fluoranthene	ND		2.0	0.16	ug/L		04/23/12 08:53	04/24/12 17:51	1
Fluorene	ND		2.0	0.22	ug/L		04/23/12 08:53	04/24/12 17:51	1

Client Sample ID: SW-02-041812

Lab Sample ID: 180-10000-17

Date Collected: 04/18/12 11:45

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		2.0	0.20	ug/L		04/23/12 08:53	04/24/12 17:51	1
Naphthalene	ND		2.0	0.14	ug/L		04/23/12 08:53	04/24/12 17:51	1
Phenanthrene	ND		2.0	0.43	ug/L		04/23/12 08:53	04/24/12 17:51	1
Pyrene	ND		2.0	0.16	ug/L		04/23/12 08:53	04/24/12 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.045		0.010	0.0016	mg/L		05/01/12 10:05	05/01/12 13:48	1
Cyanide, Free	11	^	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Client Sample ID: TRIP BLANK-041812

Lab Sample ID: 180-10000-18

Date Collected: 04/18/12 00:00

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.11	ug/L			04/25/12 17:29	1
Ethylbenzene	ND		1.0	0.23	ug/L			04/25/12 17:29	1
Toluene	ND		1.0	0.15	ug/L			04/25/12 17:29	1
Xylenes, Total	ND		3.0	0.49	ug/L			04/25/12 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*64 - 135*		*04/25/12 17:29*	*1*
Toluene-d8 (Surr)	*100*		*71 - 118*		*04/25/12 17:29*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 118*		*04/25/12 17:29*	*1*
Dibromofluoromethane (Surr)	*115*		*70 - 128*		*04/25/12 17:29*	*1*

Client Sample ID: RINSE BLANK-041812

Lab Sample ID: 180-10000-19

Date Collected: 04/18/12 12:45

Matrix: Water

Date Received: 04/20/12 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.11	ug/L			04/25/12 09:57	1
Ethylbenzene	ND		1.0	0.23	ug/L			04/25/12 09:57	1
Toluene	0.16	J	1.0	0.15	ug/L			04/25/12 09:57	1
Xylenes, Total	ND		3.0	0.49	ug/L			04/25/12 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*64 - 135*		*04/25/12 09:57*	*1*
Toluene-d8 (Surr)	*105*		*71 - 118*		*04/25/12 09:57*	*1*
4-Bromofluorobenzene (Surr)	*83*		*70 - 118*		*04/25/12 09:57*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 128*		*04/25/12 09:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.14	ug/L		04/23/12 08:53	04/24/12 18:14	1
Acenaphthylene	ND		1.9	0.15	ug/L		04/23/12 08:53	04/24/12 18:14	1
Anthracene	ND		1.9	0.15	ug/L		04/23/12 08:53	04/24/12 18:14	1
Benzo[a]anthracene	ND		1.9	0.14	ug/L		04/23/12 08:53	04/24/12 18:14	1
Benzo[a]pyrene	ND		1.9	0.13	ug/L		04/23/12 08:53	04/24/12 18:14	1
Benzo[b]fluoranthene	ND		1.9	0.15	ug/L		04/23/12 08:53	04/24/12 18:14	1

Client: AECOM, Inc.
Project/Site: AECOM, Mineral Springs

TestAmerica Job ID: 180-10000-1

Client Sample ID: RINSE BLANK-041812
Date Collected: 04/18/12 12:45
Date Received: 04/20/12 09:15

Lab Sample ID: 180-10000-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		1.9	0.15	ug/L		04/23/12 08:53	04/24/12 18:14	1
Benzo[k]fluoranthene	ND		1.9	0.53	ug/L		04/23/12 08:53	04/24/12 18:14	1
Chrysene	ND		1.9	0.13	ug/L		04/23/12 08:53	04/24/12 18:14	1
Dibenz(a,h)anthracene	ND		1.9	0.15	ug/L		04/23/12 08:53	04/24/12 18:14	1
Fluoranthene	ND		1.9	0.16	ug/L		04/23/12 08:53	04/24/12 18:14	1
Fluorene	ND		1.9	0.21	ug/L		04/23/12 08:53	04/24/12 18:14	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.19	ug/L		04/23/12 08:53	04/24/12 18:14	1
Naphthalene	ND		1.9	0.13	ug/L		04/23/12 08:53	04/24/12 18:14	1
Phenanthrene	ND		1.9	0.41	ug/L		04/23/12 08:53	04/24/12 18:14	1
Pyrene	ND		1.9	0.15	ug/L		04/23/12 08:53	04/24/12 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0016	mg/L		05/01/12 10:05	05/01/12 13:48	1
Cyanide, Free	**1.2**	**J ^**	2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

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

Lab Sample ID: MB 180-34171/4
Matrix: Water
Analysis Batch: 34171

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.11	ug/L			04/25/12 08:59	1
Ethylbenzene	ND		1.0	0.23	ug/L			04/25/12 08:59	1
Toluene	ND		1.0	0.15	ug/L			04/25/12 08:59	1
Xylenes, Total	ND		3.0	0.49	ug/L			04/25/12 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*64 - 135*		*04/25/12 08:59*	*1*
Toluene-d8 (Surr)	*98*		*71 - 118*		*04/25/12 08:59*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 118*		*04/25/12 08:59*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 128*		*04/25/12 08:59*	*1*

Lab Sample ID: LCS 180-34171/7
Matrix: Water
Analysis Batch: 34171

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.5		ug/L		105	80 - 120
Ethylbenzene	10.0	10.0		ug/L		100	72 - 126
Toluene	10.0	10.7		ug/L		107	80 - 123
Xylenes, Total	30.0	30.9		ug/L		103	76 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 135*
Toluene-d8 (Surr)	*106*		*71 - 118*
4-Bromofluorobenzene (Surr)	*96*		*70 - 118*
Dibromofluoromethane (Surr)	*107*		*70 - 128*

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

Lab Sample ID: MB 180-33897/1-A
Matrix: Water
Analysis Batch: 34141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.0	0.14	ug/L		04/23/12 08:51	04/24/12 12:16	1
Acenaphthylene	ND		2.0	0.15	ug/L		04/23/12 08:51	04/24/12 12:16	1
Anthracene	ND		2.0	0.15	ug/L		04/23/12 08:51	04/24/12 12:16	1
Benzo[a]anthracene	ND		2.0	0.15	ug/L		04/23/12 08:51	04/24/12 12:16	1
Benzo[a]pyrene	ND		2.0	0.13	ug/L		04/23/12 08:51	04/24/12 12:16	1
Benzo[b]fluoranthene	ND		2.0	0.16	ug/L		04/23/12 08:51	04/24/12 12:16	1
Benzo[g,h,i]perylene	ND		2.0	0.15	ug/L		04/23/12 08:51	04/24/12 12:16	1
Benzo[k]fluoranthene	ND		2.0	0.55	ug/L		04/23/12 08:51	04/24/12 12:16	1
Chrysene	ND		2.0	0.14	ug/L		04/23/12 08:51	04/24/12 12:16	1
Dibenz(a,h)anthracene	ND		2.0	0.16	ug/L		04/23/12 08:51	04/24/12 12:16	1
Fluoranthene	ND		2.0	0.16	ug/L		04/23/12 08:51	04/24/12 12:16	1
Fluorene	ND		2.0	0.22	ug/L		04/23/12 08:51	04/24/12 12:16	1
Indeno[1,2,3-cd]pyrene	ND		2.0	0.20	ug/L		04/23/12 08:51	04/24/12 12:16	1
Naphthalene	ND		2.0	0.14	ug/L		04/23/12 08:51	04/24/12 12:16	1
Phenanthrene	ND		2.0	0.43	ug/L		04/23/12 08:51	04/24/12 12:16	1

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

Lab Sample ID: MB 180-33897/1-A
Matrix: Water
Analysis Batch: 34141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		2.0	0.16	ug/L		04/23/12 08:51	04/24/12 12:16	1

Lab Sample ID: LCS 180-33897/2-A
Matrix: Water
Analysis Batch: 34141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	200	169		ug/L		84	39 - 106
Acenaphthylene	200	179		ug/L		90	40 - 113
Anthracene	200	174		ug/L		87	37 - 108
Benzo[a]anthracene	200	160		ug/L		80	40 - 103
Benzo[a]pyrene	200	171		ug/L		86	37 - 105
Benzo[b]fluoranthene	200	165		ug/L		83	35 - 100
Benzo[g,h,i]perylene	200	168		ug/L		84	31 - 118
Benzo[k]fluoranthene	200	169		ug/L		85	37 - 108
Chrysene	200	157		ug/L		79	39 - 103
Dibenz(a,h)anthracene	200	181		ug/L		91	32 - 117
Fluoranthene	200	170		ug/L		85	35 - 111
Fluorene	200	178		ug/L		89	39 - 107
Indeno[1,2,3-cd]pyrene	200	173		ug/L		86	32 - 116
Naphthalene	200	152		ug/L		76	35 - 98
Phenanthrene	200	176		ug/L		88	34 - 107
Pyrene	200	176		ug/L		88	36 - 115

Lab Sample ID: LCSD 180-33897/3-A
Matrix: Water
Analysis Batch: 34141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33897

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	200	159		ug/L		79	39 - 106	6	32
Acenaphthylene	200	177		ug/L		88	40 - 113	2	33
Anthracene	200	173		ug/L		86	37 - 108	1	40
Benzo[a]anthracene	200	171		ug/L		85	40 - 103	7	33
Benzo[a]pyrene	200	185		ug/L		92	37 - 105	8	35
Benzo[b]fluoranthene	200	185		ug/L		92	35 - 100	11	44
Benzo[g,h,i]perylene	200	177		ug/L		89	31 - 118	5	45
Benzo[k]fluoranthene	200	168		ug/L		84	37 - 108	1	42
Chrysene	200	161		ug/L		81	39 - 103	2	38
Dibenz(a,h)anthracene	200	189		ug/L		94	32 - 117	4	43
Fluoranthene	200	160		ug/L		80	35 - 111	6	43
Fluorene	200	173		ug/L		87	39 - 107	3	33
Indeno[1,2,3-cd]pyrene	200	180		ug/L		90	32 - 116	4	45
Naphthalene	200	163		ug/L		81	35 - 98	7	39
Phenanthrene	200	168		ug/L		84	34 - 107	5	34
Pyrene	200	179		ug/L		89	36 - 115	1	38

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 180-34695/5-A
Matrix: Water
Analysis Batch: 34746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0016	mg/L		05/01/12 10:05	05/01/12 13:40	1

Lab Sample ID: HLCS 180-34695/2-A
Matrix: Water
Analysis Batch: 34746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34695

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.249		mg/L		100	90 - 110

Lab Sample ID: LCS 180-34695/3-A
Matrix: Water
Analysis Batch: 34746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.201		mg/L		100	90 - 110

Lab Sample ID: LCSD 180-34695/4-A
Matrix: Water
Analysis Batch: 34746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34695

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.200	0.203		mg/L		102	90 - 110	1	20

Lab Sample ID: LLCS 180-34695/1-A
Matrix: Water
Analysis Batch: 34746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34695

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0471		mg/L		94	90 - 110

Lab Sample ID: MB 180-34954/5-A
Matrix: Water
Analysis Batch: 35025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0016	mg/L		05/03/12 08:25	05/03/12 10:37	1

Lab Sample ID: HLCS 180-34954/2-A
Matrix: Water
Analysis Batch: 35025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34954

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.247		mg/L		99	90 - 110

Lab Sample ID: LCS 180-34954/3-A
Matrix: Water
Analysis Batch: 35025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.186		mg/L		93	90 - 110

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCSD 180-34954/4-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 35025 — **Prep Batch: 34954**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.200	0.187		mg/L		94	90 - 110	0	20

Lab Sample ID: LLCS 180-34954/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 35025 — **Prep Batch: 34954**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0493		mg/L		99	90 - 110

Method: 9016 - Cyanide, Free

Lab Sample ID: MB 460-111156/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 111160 — **Prep Batch: 111156**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		2.0	0.54	ug/L		04/26/12 06:00	04/26/12 12:00	1

Lab Sample ID: LCS 460-111156/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 111160 — **Prep Batch: 111156**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Free	50.0	40.3		ug/L		81	70 - 130

Lab Sample ID: 180-10000-4 MS — **Client Sample ID: MW-12-041812**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 111160 — **Prep Batch: 111156**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Free	10	^	50.0	79.4	F	ug/L		138	70 - 130

Lab Sample ID: 180-10000-4 MSD — **Client Sample ID: MW-12-041812**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 111160 — **Prep Batch: 111156**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Free	10	^	50.0	73.0		ug/L		125	70 - 130	8	20

Lab Sample ID: DLCK 460-111160/10 DLCK — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 111160

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Free	2.00	2.50		ug/L		125	50 - 150

GC/MS VOA

Analysis Batch: 34171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-1	MW-07-041812	Total/NA	Water	8260B	
180-10000-2	MW-10-041812	Total/NA	Water	8260B	
180-10000-3	MW-11A-041812	Total/NA	Water	8260B	
180-10000-8	MW-17-041812	Total/NA	Water	8260B	
180-10000-9	MW-19-041812	Total/NA	Water	8260B	
180-10000-14	DUPLICATE-041812	Total/NA	Water	8260B	
180-10000-16	SW-01-041912	Total/NA	Water	8260B	
180-10000-17	SW-02-041812	Total/NA	Water	8260B	
180-10000-18	TRIP BLANK-041812	Total/NA	Water	8260B	
180-10000-19	RINSE BLANK-041812	Total/NA	Water	8260B	
LCS 180-34171/7	Lab Control Sample	Total/NA	Water	8260B	
MB 180-34171/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 33897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-1	MW-07-041812	Total/NA	Water	3520C	
180-10000-2	MW-10-041812	Total/NA	Water	3520C	
180-10000-3	MW-11A-041812	Total/NA	Water	3520C	
180-10000-8	MW-17-041812	Total/NA	Water	3520C	
180-10000-9	MW-19-041812	Total/NA	Water	3520C	
180-10000-9 - DL	MW-19-041812	Total/NA	Water	3520C	
180-10000-14	DUPLICATE-041812	Total/NA	Water	3520C	
180-10000-14 - DL	DUPLICATE-041812	Total/NA	Water	3520C	
180-10000-16	SW-01-041912	Total/NA	Water	3520C	
180-10000-17	SW-02-041812	Total/NA	Water	3520C	
180-10000-19	RINSE BLANK-041812	Total/NA	Water	3520C	
LCS 180-33897/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 180-33897/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 180-33897/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 34141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-1	MW-07-041812	Total/NA	Water	8270C	33897
180-10000-2	MW-10-041812	Total/NA	Water	8270C	33897
180-10000-3	MW-11A-041812	Total/NA	Water	8270C	33897
180-10000-8	MW-17-041812	Total/NA	Water	8270C	33897
180-10000-9	MW-19-041812	Total/NA	Water	8270C	33897
180-10000-14	DUPLICATE-041812	Total/NA	Water	8270C	33897
180-10000-16	SW-01-041912	Total/NA	Water	8270C	33897
180-10000-17	SW-02-041812	Total/NA	Water	8270C	33897
180-10000-19	RINSE BLANK-041812	Total/NA	Water	8270C	33897
LCS 180-33897/2-A	Lab Control Sample	Total/NA	Water	8270C	33897
LCSD 180-33897/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	33897
MB 180-33897/1-A	Method Blank	Total/NA	Water	8270C	33897

Analysis Batch: 34262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-9 - DL	MW-19-041812	Total/NA	Water	8270C	33897
180-10000-14 - DL	DUPLICATE-041812	Total/NA	Water	8270C	33897

GC/MS Semi VOA (Continued)

Analysis Batch: 34378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-1	MW-07-041812	Total/NA	Water	8270C	33897

General Chemistry

Prep Batch: 34695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-4	MW-12-041812	Total/NA	Water	Distill/CN	
180-10000-8	MW-17-041812	Total/NA	Water	Distill/CN	
180-10000-10	MW-20-041812	Total/NA	Water	Distill/CN	
180-10000-12	MW-22-041812	Total/NA	Water	Distill/CN	
180-10000-13	MW-23-041812	Total/NA	Water	Distill/CN	
180-10000-17	SW-02-041812	Total/NA	Water	Distill/CN	
180-10000-19	RINSE BLANK-041812	Total/NA	Water	Distill/CN	
HLCS 180-34695/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 180-34695/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCSD 180-34695/4-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
LLCS 180-34695/1-A	Lab Control Sample	Total/NA	Water	Distill/CN	
MB 180-34695/5-A	Method Blank	Total/NA	Water	Distill/CN	

Analysis Batch: 34746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-4	MW-12-041812	Total/NA	Water	335.4	34695
180-10000-8	MW-17-041812	Total/NA	Water	335.4	34695
180-10000-10	MW-20-041812	Total/NA	Water	335.4	34695
180-10000-12	MW-22-041812	Total/NA	Water	335.4	34695
180-10000-13	MW-23-041812	Total/NA	Water	335.4	34695
180-10000-17	SW-02-041812	Total/NA	Water	335.4	34695
180-10000-19	RINSE BLANK-041812	Total/NA	Water	335.4	34695
HLCS 180-34695/2-A	Lab Control Sample	Total/NA	Water	335.4	34695
LCS 180-34695/3-A	Lab Control Sample	Total/NA	Water	335.4	34695
LCSD 180-34695/4-A	Lab Control Sample Dup	Total/NA	Water	335.4	34695
LLCS 180-34695/1-A	Lab Control Sample	Total/NA	Water	335.4	34695
MB 180-34695/5-A	Method Blank	Total/NA	Water	335.4	34695

Prep Batch: 34954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-5	MW-13-041912	Total/NA	Water	Distill/CN	
180-10000-6	MW-14-041912	Total/NA	Water	Distill/CN	
180-10000-7	MW-16-041912	Total/NA	Water	Distill/CN	
180-10000-11	MW-21-041912	Total/NA	Water	Distill/CN	
180-10000-15	MW-116-041912	Total/NA	Water	Distill/CN	
180-10000-16	SW-01-041912	Total/NA	Water	Distill/CN	
HLCS 180-34954/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 180-34954/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCSD 180-34954/4-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
LLCS 180-34954/1-A	Lab Control Sample	Total/NA	Water	Distill/CN	
MB 180-34954/5-A	Method Blank	Total/NA	Water	Distill/CN	

Analysis Batch: 35025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-5	MW-13-041912	Total/NA	Water	335.4	34954
180-10000-6	MW-14-041912	Total/NA	Water	335.4	34954

General Chemistry (Continued)

Analysis Batch: 35025 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-7	MW-16-041912	Total/NA	Water	335.4	34954
180-10000-11	MW-21-041912	Total/NA	Water	335.4	34954
180-10000-15	MW-116-041912	Total/NA	Water	335.4	34954
180-10000-16	SW-01-041912	Total/NA	Water	335.4	34954
HLCS 180-34954/2-A	Lab Control Sample	Total/NA	Water	335.4	34954
LCS 180-34954/3-A	Lab Control Sample	Total/NA	Water	335.4	34954
LCSD 180-34954/4-A	Lab Control Sample Dup	Total/NA	Water	335.4	34954
LLCS 180-34954/1-A	Lab Control Sample	Total/NA	Water	335.4	34954
MB 180-34954/5-A	Method Blank	Total/NA	Water	335.4	34954

Prep Batch: 111156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-4	MW-12-041812	Total/NA	Water	9016	
180-10000-4 MS	MW-12-041812	Total/NA	Water	9016	
180-10000-4 MSD	MW-12-041812	Total/NA	Water	9016	
180-10000-5	MW-13-041912	Total/NA	Water	9016	
180-10000-6	MW-14-041912	Total/NA	Water	9016	
180-10000-7	MW-16-041912	Total/NA	Water	9016	
180-10000-8	MW-17-041812	Total/NA	Water	9016	
180-10000-10	MW-20-041812	Total/NA	Water	9016	
180-10000-11	MW-21-041912	Total/NA	Water	9016	
180-10000-12	MW-22-041812	Total/NA	Water	9016	
180-10000-13	MW-23-041812	Total/NA	Water	9016	
180-10000-15	MW-116-041912	Total/NA	Water	9016	
180-10000-16	SW-01-041912	Total/NA	Water	9016	
180-10000-17	SW-02-041812	Total/NA	Water	9016	
180-10000-19	RINSE BLANK-041812	Total/NA	Water	9016	
LCS 460-111156/2-A	Lab Control Sample	Total/NA	Water	9016	
MB 460-111156/1-A	Method Blank	Total/NA	Water	9016	

Analysis Batch: 111160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-10000-4	MW-12-041812	Total/NA	Water	9016	111156
180-10000-4 MS	MW-12-041812	Total/NA	Water	9016	111156
180-10000-4 MSD	MW-12-041812	Total/NA	Water	9016	111156
180-10000-5	MW-13-041912	Total/NA	Water	9016	111156
180-10000-6	MW-14-041912	Total/NA	Water	9016	111156
180-10000-7	MW-16-041912	Total/NA	Water	9016	111156
180-10000-8	MW-17-041812	Total/NA	Water	9016	111156
180-10000-10	MW-20-041812	Total/NA	Water	9016	111156
180-10000-11	MW-21-041912	Total/NA	Water	9016	111156
180-10000-12	MW-22-041812	Total/NA	Water	9016	111156
180-10000-13	MW-23-041812	Total/NA	Water	9016	111156
180-10000-15	MW-116-041912	Total/NA	Water	9016	111156
180-10000-16	SW-01-041912	Total/NA	Water	9016	111156
180-10000-17	SW-02-041812	Total/NA	Water	9016	111156
180-10000-19	RINSE BLANK-041812	Total/NA	Water	9016	111156
DLCK 460-111160/10 DLCK	Lab Control Sample	Total/NA	Water	9016	
LCS 460-111156/2-A	Lab Control Sample	Total/NA	Water	9016	111156
MB 460-111156/1-A	Method Blank	Total/NA	Water	9016	111156

180 - 10000 2.6 3.0 3.3 2.8 #5

Chain of Custody Record

TestAmerica Laboratory location: PITTSBURGH

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

5/8/2012

Client Contact					
Company Name: AECOM	Client Project Manager: Charles Burke National Fuel / AECOM Tamara Raby	Site Contact: Tamara Raby	Lab Contact: Dave Dunlap	COC No: 1 of 2 COCs	
Address: 100 Corporate Pkwy Ste 341	Telephone: 716-827-2359 / 716-836-4506	Telephone: (716) 836 4566	Telephone: (412) 963-7058		
City/State/Zip: Amherst, NY 14226	Email: BurkeC@NatFuel.com / Tamara.Raby@aecom.com	Analysis Turnaround Time (in BUS days)		Analyses	For lab use only
Phone: 716-836-4506		TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: AECOM - Mineral Springs	Method of Shipment/Carrier:				Job/SDG No:
Project Number: 04870-025-200	Shipping/Tracking No:				
PO# None					

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C/Grab=G	BTEX - low level 8260B	PAHs - selected 8270C	Total CN 9012A	FREE CN ASTM D4282	Sample Specific Notes / Special Instructions:
MW-07-041812	4/18/12	11:00		X						3			2				X	X			
MW-10-041812	4/18/12	1100		X						3			2				X	X			
MW-11A-041812	4/19/12	1200		X						3			2				X	X			
MW-12-041812	4/18/12	1445		X							2								X	X	
MW-13-041912	04/19/12	1045		X							2								X	X	
MW-14-041912	4/19/12	10:45		X							2								X	X	
MW-16-041912	4/19/12	930		X							2								X	X	
MW-17-041812	4/18/12	1300		X						3	2		2				X	X	X	X	
MW-19-041812	4/18/12	1345		X						3			2				X	X			
MW-20-041812	4/18/12	16:10		X							2								X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	AECOM	4/19/12 12:10		TMH	4/20/12 0715
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TAL-0018 (1008)

Chain of Custody Record

TestAmerica Laboratory location: PITTSBURGH

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

5/8/2012

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: AECOM	AECOM TAMARA RABY	TAMARA RABY	Dave Dunlap	
Address: 100 Corporate Pkwy ste 341	Telephone: 716-836-4506	Telephone: (716) 836-4506	Telephone: (412) 963-7058	2 of 2 COCs
City/State/Zip: Amherst, NY 14226	Email: Tamara.Raby@aecom.com	Analysis Turnaround Time (in BUS days)		For lab use only
Phone: (716) 836-4506		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: AECOM - Mineral Springs	Method of Shipment/Carrier:			
Project Number: 60487025 - 025 - 200	Shipping/Tracking No:			Job/SDG No:
PO# NONE				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: BTEX - low level 8260B	PAHs - selected 8270C	Total CN 9012A	FREE CN ASTM D4282	Sample Specific Notes / Special Instructions:
MW-21 - 041912	4/19/12	940		X							2								X	X	
MW-22 - 041812	4/18/12	1615		X															X	X	
MW-23 - 041812	4/18/12	1230		X							2								X	X	
Duplicate - 041812	4/18/12	900		X						3			2				X	X			
MW-116 - 041912	4/19/12	925		X							2								X	X	
SW-01 - 041912	4/19/12	940		X						3	2		2				X	X	X	Y	
SW-02 - 041812	4/18/12	1145		X						3	2		2				X	X	X	X	
Trip Blank - 041812	4/18/12	—		X						3							X				
Rinse Blank 041812	4/18/12	1245		X						3	2		2				X	X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	AECOM	4/19/12 1210		TAL	4/20/12 0910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TAL-0018 (1008)

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
MW-07-041812	180-10000-A-1	Amber Glass 1 liter - unpreserved			
MW-07-041812	180-10000-B-1	Amber Glass 1 liter - unpreserved			
MW-07-041812	180-10000-C-1	Voa Vial 40ml - Hydrochloric Acid	P		
MW-07-041812	180-10000-D-1	Voa Vial 40ml - Hydrochloric Acid	"		
MW-07-041812	180-10000-E-1	Voa Vial 40ml - Hydrochloric Acid	"		
MW-10-041812	180-10000-A-2	Amber Glass 1 liter - unpreserved			
MW-10-041812	180-10000-B-2	Amber Glass 1 liter - unpreserved			
MW-10-041812	180-10000-C-2	Voa Vial 40ml - Hydrochloric Acid	P		
MW-10-041812	180-10000-D-2	Voa Vial 40ml - Hydrochloric Acid	"		
MW-10-041812	180-10000-E-2	Voa Vial 40ml - Hydrochloric Acid	"		
MW-11A-041812	180-10000-A-3	Amber Glass 1 liter - unpreserved			
MW-11A-041812	180-10000-B-3	Amber Glass 1 liter - unpreserved			
MW-11A-041812	180-10000-C-3	Voa Vial 40ml - Hydrochloric Acid	P		
MW-11A-041812	180-10000-D-3	Voa Vial 40ml - Hydrochloric Acid	"		
MW-11A-041812	180-10000-E-3	Voa Vial 40ml - Hydrochloric Acid	"		
MW-12-041812	180-10000-A-4	Amber Plastic 250mL - NaOH	12		
MW-12-041812	180-10000-B-4	Amber Plastic 250mL - NaOH	"		
MW-13-041912	180-10000-A-5	Amber Plastic 250mL - NaOH	"		
MW-13-041912	180-10000-B-5	Amber Plastic 250mL - NaOH	"		
MW-14-041912	180-10000-A-6	Amber Plastic 250mL - NaOH	"		
MW-14-041912	180-10000-B-6	Amber Plastic 250mL - NaOH	"		
MW-16-041912	180-10000-A-7	Amber Plastic 250mL - NaOH	"		
MW-16-041912	180-10000-B-7	Amber Plastic 250mL - NaOH	"		
MW-17-041812	180-10000-A-8	Amber Glass 1 liter - unpreserved			
MW-17-041812	180-10000-B-8	Amber Glass 1 liter - unpreserved			
MW-17-041812	180-10000-C-8	Amber Plastic 250mL - NaOH	12		
MW-17-041812	180-10000-D-8	Amber Plastic 250mL - NaOH	12		
MW-17-041812	180-10000-E-8	Voa Vial 40ml - Hydrochloric Acid	P		
MW-17-041812	180-10000-F-8	Voa Vial 40ml - Hydrochloric Acid	"		
MW-17-041812	180-10000-G-8	Voa Vial 40ml - Hydrochloric Acid	"		
MW-19-041812	180-10000-A-9	Amber Glass 1 liter - unpreserved			
MW-19-041812	180-10000-B-9	Amber Glass 1 liter - unpreserved			
MW-19-041812	180-10000-C-9	Voa Vial 40ml - Hydrochloric Acid	P		
MW-19-041812	180-10000-D-9	Voa Vial 40ml - Hydrochloric Acid	"		
MW-19-041812	180-10000-E-9	Voa Vial 40ml - Hydrochloric Acid	"		
MW-20-041812	180-10000-A-10	Amber Plastic 250mL - NaOH	12		

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
MW-20-041812	180-10000-B-10	Amber Plastic 250mL - NaOH	12		
MW-21-041912	180-10000-A-11	Amber Plastic 250mL - NaOH	"		
MW-21-041912	180-10000-B-11	Amber Plastic 250mL - NaOH	"		
MW-22-041812	180-10000-A-12	Amber Plastic 250mL - NaOH	"		
MW-22-041812	180-10000-B-12	Amber Plastic 250mL - NaOH	"		
MW-23-041812	180-10000-A-13	Amber Plastic 250mL - NaOH	"		
MW-23-041812	180-10000-B-13	Amber Plastic 250mL - NaOH	"		
DUPLICATE-041812	180-10000-A-14	Amber Glass 1 liter - unpreserved			
DUPLICATE-041812	180-10000-B-14	Amber Glass 1 liter - unpreserved			
DUPLICATE-041812	180-10000-C-14	Voa Vial 40ml - Hydrochloric Acid	P		
DUPLICATE-041812	180-10000-D-14	Voa Vial 40ml - Hydrochloric Acid	"		
DUPLICATE-041812	180-10000-E-14	Voa Vial 40ml - Hydrochloric Acid	"		
MW-116-041912	180-10000-A-15	Amber Plastic 250mL - NaOH	12		
MW-116-041912	180-10000-B-15	Amber Plastic 250mL - NaOH	12		
SW-01--041912	180-10000-A-16	Amber Glass 1 liter - unpreserved			
SW-01--041912	180-10000-B-16	Amber Glass 1 liter - unpreserved			
SW-01--041912	180-10000-C-16	Amber Plastic 250mL - NaOH	12		
SW-01--041912	180-10000-D-16	Amber Plastic 250mL - NaOH	12		
SW-01--041912	180-10000-E-16	Voa Vial 40ml - Hydrochloric Acid	P		
SW-01--041912	180-10000-F-16	Voa Vial 40ml - Hydrochloric Acid	"		
SW-01--041912	180-10000-G-16	Voa Vial 40ml - Hydrochloric Acid	"		
SW-02--041812	180-10000-A-17	Amber Glass 1 liter - unpreserved			
SW-02--041812	180-10000-B-17	Amber Glass 1 liter - unpreserved			
SW-02--041812	180-10000-C-17	Amber Plastic 250mL - NaOH	12		
SW-02--041812	180-10000-D-17	Amber Plastic 250mL - NaOH	12		
SW-02--041812	180-10000-E-17	Voa Vial 40ml - Hydrochloric Acid	P		
SW-02--041812	180-10000-F-17	Voa Vial 40ml - Hydrochloric Acid	"		
SW-02--041812	180-10000-G-17	Voa Vial 40ml - Hydrochloric Acid	"		
TRIP BLANK-041812	180-10000-A-18	Voa Vial 40ml - Hydrochloric Acid	"		
TRIP BLANK-041812	180-10000-B-18	Voa Vial 40ml - Hydrochloric Acid	"		
TRIP BLANK-041812	180-10000-C-18	Voa Vial 40ml - Hydrochloric Acid			
RINSE BLANK-041812	180-10000-A-19	Amber Glass 1 liter - unpreserved			
RINSE BLANK-041812	180-10000-B-19	Amber Glass 1 liter - unpreserved			
RINSE BLANK-041812	180-10000-C-19	Amber Plastic 250mL - NaOH	12		
RINSE BLANK-041812	180-10000-D-19	Amber Plastic 250mL - NaOH	12		
RINSE BLANK-041812	180-10000-E-19	Voa Vial 40ml - Hydrochloric Acid	P		
RINSE BLANK-041812	180-10000-F-19	Voa Vial 40ml - Hydrochloric Acid	"		
RINSE BLANK-041812	180-10000-G-19	Voa Vial 40ml - Hydrochloric Acid	"		

From: (716) 836-4506
James Kaczor
Earth Tech, Inc.
100 Corporate Parkway
Suite 341
Amherst, NY 14226

Origin ID: BUFA

FedEx Express

J1210111219O225

Ship Date: 19APR12
ActWgt: 49.0 LB
CAD: 8625461/INET3250

Delivery Address Bar Code

SHIP TO: (412) 963-7058
BILL SENDER

Dave Dunlap
Test America - Pittsburgh
301 ALPHA DR

PITTSBURGH, PA 15238

Ref # 60137322.300
Invoice #
PO #
Dept #

3 of 4

FRI - 20 APR A2
PRIORITY OVERNIGHT

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0263

Mstr# 7934 7344 2684
0201

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PA-US
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James Kaczor
Earth Tech, Inc.
100 Corporate Parkway
Suite 341
Amherst, NY 14226

Origin ID: BUFA

FedEx Express

J12101112190225

Ship Date: 19APR12
ActWgt: 49.0 LB
CAD: 8625461/INET3250

Delivery Address Bar Code

Ref # 60137322.300
Invoice #
PO #
Dept #

SHIP TO: (412) 963-7058 BILL SENDER

Dave Dunlap
TestAmerica - Pittsburgh
301 ALPHA DR

PITTSBURGH, PA 15238

4 of 4

MPS# 7934 7344 2835
0263

Mstr# 7934 7344 2684 0201

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From: (716) 836-4506
James Kaczor
Earth Tech, Inc.
100 Corporate Parkway
Suite 341
Amherst, NY 14226

Origin ID: BUFA

FedEx Express

J12101112190225

Ship Date: 19APR12
ActWgt: 49.0 LB
CAD: 8625461/INET3250

Delivery Address Bar Code

SHIP TO: (412) 963-7058
BILL SENDER

Dave Dunlap
Test America - Pittsburgh
301 ALPHA DR

PITTSBURGH, PA 15238

Ref # 60137322.300
Invoice #
PO #
Dept #

1 of 4

FRI - 20 APR A2
PRIORITY OVERNIGHT

TRK# 0201 7934 7344 2684

MASTER

XH AGCA

15238
PA-US
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512G1/C44D/A278

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From: (716) 836-4506
James Kaczor
Earth Tech, Inc.
100 Corporate Parkway
Suite 341
Amherst, NY 14226

Origin ID: BUFA

FedEx Express

J12101112190225

Ship Date: 19APR12
ActWgt: 49.0 LB
CAD: 8625461/INET3250

Delivery Address Bar Code

SHIP TO: (412) 963-7058 BILL SENDER

Dave Dunlap
Test America - Pittsburgh
301 ALPHA DR

PITTSBURGH, PA 15238

Ref # 60137322.300
Invoice #
PO #
Dept #

2 of 4

FRI - 20 APR A2
PRIORITY OVERNIGHT

MPS# 7934 7344 2651
0263

Mstr# 7934 7344 2684 0201

XH AGCA

15238
PA-US
PIT

512G1/C44D/A278

After printing this label:
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Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 180-10000-1

Login Number: 10000

List Number: 1

Creator: Gamber, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 180-10000-1

Login Number: 10000
List Number: 1
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison
List Creation: 04/23/12 12:16 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C IR#50
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?	False	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 180-10000-1

Login Number: 10000

List Number: 1

Creator: Gamber, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	