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October 4, 2013

Mr. Glenn May
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, New York 14203-2999

Subject: Soil Vapor Intrusion Evaluation – Supplemental Soil and Groundwater Data Report
Former Scott Aviation Facility Area 1 BCP Site
NYSDEC Site Code No. C915233, Lancaster, New York

Dear Mr. May:

On behalf of Tyco International (Tyco), AECOM Technical Services, Inc. (AECOM) is pleased to provide you with this letter-report summarizing the results of the groundwater and soil sampling program that was recently completed at the Brownfield Cleanup Program's (BCP) Former Scott Aviation Facility Area 1 Site (the Site). The Site is identified as New York State Department of Environmental Conservation (NYSDEC) Site Code No. C915233 and is located west of AVOX Systems Inc. (AVOX) Plant 1 in Lancaster, New York.

The groundwater and soil investigation was completed along the northwestern edge of the AVOX property, adjacent to the residence at 205 Erie Street, which is located hydraulically downgradient of the Site's presumed volatile organic compound (VOC) groundwater plume. This work was conducted in an effort to collect additional data to supplement the results of the July 2013 limited-scope evaluation of the potential for soil vapor intrusion (SVI).

This letter-report discusses the project intent, field methodology, field and analytical results, findings, and conclusions.

Background

The Site is characterized by a groundwater plume that is presumably impacted by chlorinated VOCs (CVOCs), which led to the July 2013 evaluation of the potential for SVI. The purpose of the SVI evaluation was to assess whether soil vapor in the vicinity of the residence at 205 Erie Street contained CVOCs at concentrations sufficiently elevated to represent a potential indoor air quality issue for the nearby buildings (house and garage/shop). Freon-12 (SVI-3R) and TCE (SVI-1) were the only chlorinated Constituents of Potential Concern (COPCs) reported in soil vapor during the July 2013 SVI investigation, and the TCE detection specifically resulted in NYSDEC's request that sub-slab vapor and indoor air sampling be conducted at the residence.

For the purposes of this letter report, AECOM will focus on the following eight site-related CVOCs that should be considered as part of an SVI analysis for the residence: 1,1,1-trichloroethane; 1,1,2-trichloroethane; 1,1-dichloroethane; 1,1-dichloroethene; chloroethane; cis-1,2-dichloroethane; trichloroethene; and vinyl chloride. These compounds, which have all been reported in Site groundwater, will be referred to as key CVOCs and will be reported as a total concentration.

The results of the July 2013 soil vapor sampling event identified TCE in SVI-1 at a fairly low concentration (6.2 µg/m^3) but it was absent in SVI-3(R), collected closest to the Site's groundwater plume. No other key CVOC was detected in either soil vapor sample. The soil at SVI-2 was so tight that no soil vapor sample could be obtained.

Based on these results, Tyco authorized collection of soil and groundwater samples in the vicinity of the SVI sample locations, to further assess the presence of TCE and the remaining key CVOCs in other nearby media. The purpose of the additional sampling was to determine whether soil and groundwater in the vicinity of the residence contained key CVOCs at concentrations sufficiently elevated to represent a potential indoor air quality issue when all available data was considered collectively.

Field Activities

On September 16, 2013, Matrix Environmental Technologies, Inc. (Matrix, Orchard Park, New York), under the direct supervision of an AECOM geologist, completed six soil borings and installed six temporary well points (a photograph log is provided as **Attachment 1**). Sampling locations are approximated on **Figure 1** and are briefly summarized in the following table:

Sample ID	Location
B-1	East of 205 Erie Street home; north of SVI-1
B-2	East of 205 Erie Street home/garage/shop; south of SVI-1
B-3	East of 205 Erie Street garage/shop; north of SVI-2
B-4	East of 205 Erie Street back yard; south of SVI-2
B-5	East of 205 Erie Street back yard; west of SVI-3
B-6	East of 205 Erie Street back yard; between SVI-3 and CB-1

Soil samples were collected during the completion of the six soil borings. Groundwater samples were collected on the next day (September 17, 2013) and on September 25, 2013, as further discussed below.

Soil Boring and Sampling Methodology

Soil borings were completed by Matrix on September 16, 2013, using direct-push techniques, to an approximate depth of 16 feet (ft) below ground surface (bgs) at location B-1 and 15 ft bgs at locations B-2 through B-6. Two-inch diameter, four-foot long Macro-Core® soil samples were continuously collected. Soil was characterized and screened both visually and with a MultiRae Model PGM-7240 photoionization detector (PID) for signs of impact (refer to **Attachment 2** – Soil Boring Logs). No signs of impacted soil were observed; therefore, a soil sample was collected from the 10.5 to 11 ft bgs interval, immediately above the interpreted water table (~11 ft bgs).

Soil samples were collected using Terra Core soil sampling techniques (methanol preservation technique for low level VOC analysis). Samples were packaged and hand delivered to TestAmerica Laboratories, Inc. (Amherst, NY) under standard chain-of-custody procedures. All samples were analyzed for TCL VOCs using USEPA Method 8260B. A Category B deliverable package was requested for the data and included the following elements: analytical report; quality assurance/quality control summary; chain of custody; method blank; laboratory control samples – control limits; reporting limits; and, surrogate recoveries for gas chromatograph/mass spectrometer analysis with control limits.

Temporary Well Installation and Groundwater Sampling Methodology

Once the desired depth was reached and the drive rod was retracted, a temporary Schedule 40 one-inch diameter PVC well point was installed at each location. A 5-foot (0.010 inch slotted) screen was installed at location B-1 at 10 to 15 ft bgs and 10-foot screens were installed at locations B-2 through B-6 at 5 to 15 ft bgs. A sand pack was installed to approximately one foot above the screen and the remainder of the annulus was filled with bentonite chips. Refer to **Attachment 3** for well construction logs.

The temporary well points were allowed to sit overnight. On September 17, 2013, AECOM returned to the Site to attempt to collect a groundwater grab sample from each location. Due to insufficient recharge (very tight soils), a groundwater sample was only able to be collected from location B-1 on September 17, 2013. This sample was collected using a peristaltic pump and dedicated polyethylene/silicon tubing. The sample was submitted along with a trip blank to the laboratory with the soil samples, as described previously.

AECOM returned to the Site on September 25, 2013 to attempt to collect groundwater grab samples from locations B-2 through B-6. Samples were successfully collected from each location and submitted along with a trip blank to the laboratory as described above.

Field Observations

No petroleum or chemical odors were noted in soils recovered during the completion of the soil borings. In addition, all PID readings were at background during the screening of soils (i.e., 0.1 to 0.2 ppm). In general, shallow site soils consisted of approximately six inches of topsoil above reddish-brown silt with clay followed by pinkish gray to gray silty clay with trace fine to coarse sand. Shallow groundwater was observed at approximately 11 ft bgs.

Analytical Results

A more detailed summary of contaminants in site groundwater and stormwater is provided in the Draft Alternatives Analysis Report (AAR) dated April 30, 2013. As indicated previously, this report will focus on key CVOCs.

According to the analytical results, no key CVOCs were reported in any of the soil or groundwater samples. Acetone was the only VOC reported in soil (12 µg/kg in B-5). Acetone was also reported in five of the six groundwater samples and in the trip blank. The only other VOC reported was 2-butanone in B-6 at 4.1 µg/L. The laboratory summary sheets are included as **Attachment 4**. The full analytical reports (Category B deliverable package) with QA/QC data are available upon request.

Findings/Discussion

Figure 1 presents the total key CVOC concentrations in soil, groundwater, stormwater, soil vapor, and ambient air based on data collected between 2010 and 2013. With the exception of the recent data, all data has been previously provided to NYSDEC. Groundwater samples with the “TP” prefix were collected within the storm sewer bedding.

As is shown in the figure, no key CVOCs, including TCE, were reported in soil or groundwater between contaminated location A1-GP07 and the structures at 205 Erie Street (a distance of 200 to 250 feet). Furthermore, no key CVOCs were reported in soil or groundwater between the residence and the storm sewer that flows alongside AVOX Plant 1 (a distance of approximately 100 feet).

No key CVOCs were reported in soil vapor sample SVI-3(R), which is located approximately 75 feet from both the storm sewer and the nearest groundwater sample with elevated key CVOCs. SV-1 is

further from these site features and the only key CVOC in sample SV-1 was TCE at 6.2 µg/m^3. It is also relevant to mention the June 2010 sub-slab vapor sampling performed at AVOX Plant 1, since contaminants can be expected to behave similarly with the same subsurface soil and soil vapor conditions. Sample SS-3 exhibited a similarly low concentration of TCE at 4.3 µg/m^3, but was located even closer to the storm sewer and groundwater source, which suggests that significant attenuation occurs in soil vapor in Area 1 within a fairly short distance. SS-3 was situated approximately 60 feet from A1-GP13 (5,270 µg/L key CVOCs) and 50 feet from CB-E (1,735 µg/L key CVOCs).

AECOM is also aware that the garage at 205 Erie Street is used to perform limited auto repair activities, and does not discount the possibility that the low level VOCs detected in SV-1 are related to those maintenance operations rather than the Area 1 impacts.

Conclusions

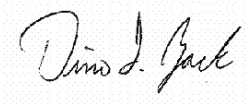
Based on the information collected, AECOM provides the following conclusions:

- In September 2013, six soil borings were advanced 15 to 16 ft bgs to assess soil and groundwater conditions along the property boundary between AVOX Area 1 and the residence at 205 Erie Street. Site soils are comprised of silt and clay; consistent with elsewhere in Area 1. One soil sample was collected from each boring. Groundwater was observed at approximately 11 feet below grade, and one grab groundwater sample was collected from each boring. No key CVOCs were reported in any of the samples.

- AECOM reviewed historical soil, groundwater, soil vapor, and stormwater data from the northern portion of the Area 1 Site to assess the potential relationship between the low level TCE concentration reported in SV-1 in July 2013 and the Area 1 contamination. The collective data does not identify a clear relationship between the two that would warrant further SVI sampling at the residential property. Multiple media have been evaluated. The property boundary between AVOX and 205 Erie Street appears to not be impacted by the BCP Site.

If you have any questions regarding this submission, please do not hesitate to contact me at (716) 836-4506 ext. 15 or via email.

Yours sincerely,



Dino L. Zack, P.G.
Project Manager
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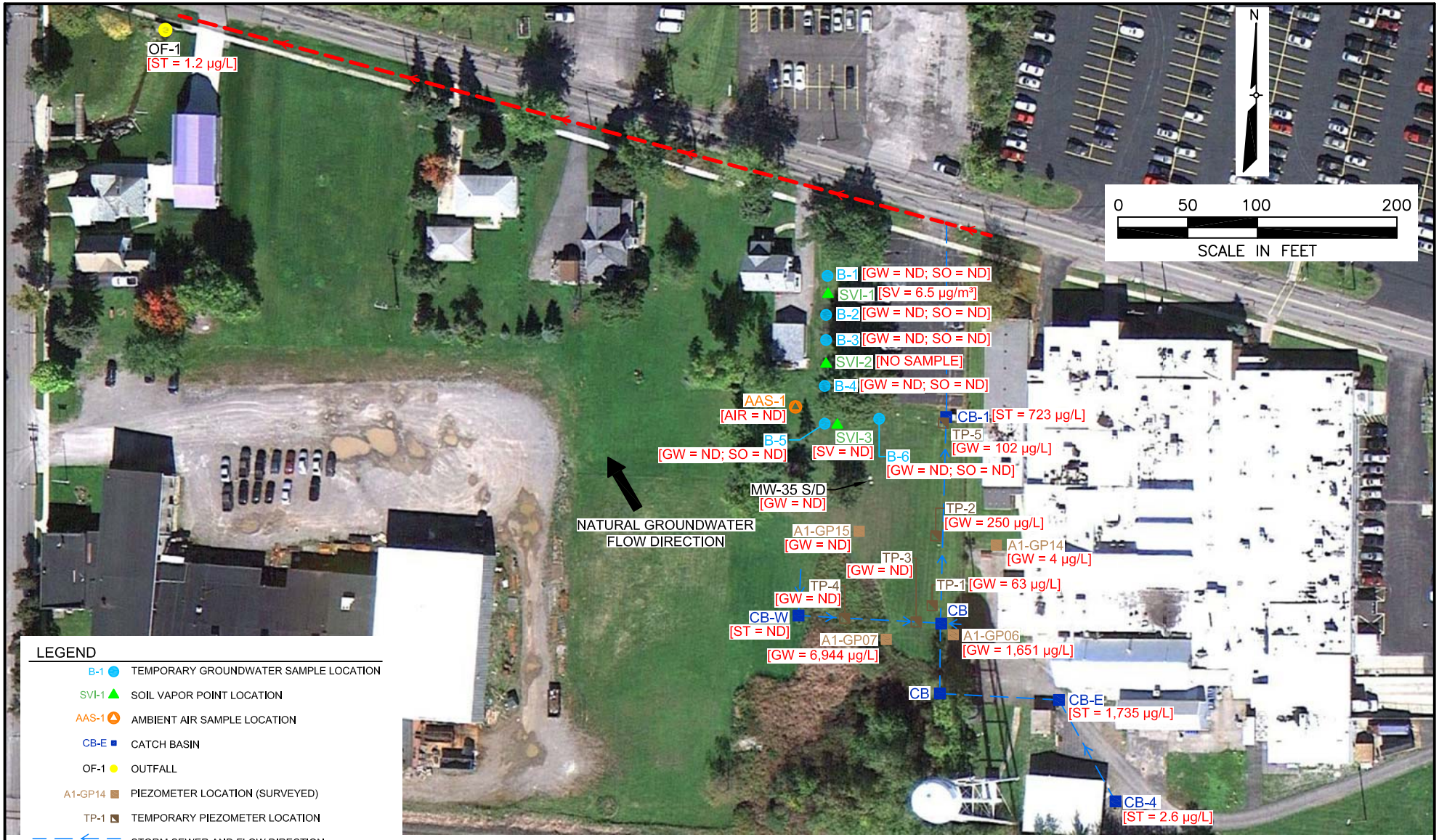
Enclosures

Cc: Gregory Sutton (NYSDEC) – electronic copy
Deanna Ripstein (NYSDOH) – electronic copy
Stuart Rixman (Tyco International) – electronic copy
Joseph Janeczek (Tyco International) – electronic copy
Jennifer Davide (AVOX Systems Inc.) – electronic copy
AECOM Project File – electronic copy

FIGURE



AECOM

FIGURE 1
TOTAL KEY CHLORINATED VOCs IN ALL MEDIA
AREA 1 NORTH

FORMER SCOTT AVIATION FACILITY BCP SITE
LANCASTER, NEW YORK

L:\work\60147012\CADD\60155991_106 Total Key Chlorinated VOCs in all Media_Area 1 North.dwg, 10/3/2013 3:50:58 PM, Splawnm

ATTACHMENT 1

Photograph Log

AECOM Technical Services, Inc.

PHOTOGRAPH LOG

Client Name: Tyco International	**Site Location:** Former Scott Aviation BCP Site, Lancaster, New York	AECOM Project #60155991

Photo No. **1**	**Date:** 9/16/13

Direction Photo Taken:

Northwest

Description:
Matrix (AECOM subcontractor) completing boring at location B-2. Note SVI-1 and B-1 to the north (right in photo).

Photo No. **2**	**Date:** 9/16/13

Direction Photo Taken:

North

Description:
Line of borings (white PVC stickups) between AVOX Systems Inc. property and residence to the west. Note SVI-3 in foreground.

Photo No. 3	Date: 9/16/13
Direction Photo Taken: West	
Description: Catch basin CB-1 in foreground and boring B-6 in the background (i.e., where Geoprobe is set-up). Note temporary well point installed in the pipe bedding at CB-1 during SRI.	

Photo No. 4	Date: 9/16/13
Direction Photo Taken: North	
Description: Typical 0-4' bgs soil profile (0-0.5' topsoil, 0.5-4' silt with trace clay, fine sand, and rootlets).	

Photo No. 5	Date: 9/16/13	
Direction Photo Taken: North		
Description: Typical 8-12' bgs soil profile (clay with trace silt and fine sand)		

Photo No. 6	Date: 9/16/13	
Direction Photo Taken: North		
Description: Typical color gradation from brown to gray with increasing moisture content (approximately at 9' bgs).		

ATTACHMENT 2

Soil Boring Logs

AECOM	Client: Tyco International	**BORING ID: B-1**
	Project Number: 60155991-3	
	Site Location: Former Scott Aviation Facility BCP	
	Boring Location: West side of property	Sheet: 1 of 1
	Drilling Method: Geoprobe	Monitoring Well Installed: Temp
	Sample Type(s): Macrocore — Boring Diameter: 2"	Screened Interval: 10-15' bgs
Weather: 60 degrees F, overcast, light breeze	Logged By: TR	Date/Time Started: 9/16/13 8:45 — Depth of Boring: 16' bgs
Drilling Contractor: Matrix	Ground Elevation: ~688	Date/Time Finished: 9/16/13 9:15 — Water Level: Water Table ~11' bgs

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1–4		0-4	NA	3.8	0.2		0-0.5' Brown TOPSOIL, rootlets throughout, dry/moist. 0.5-3.8' Tan SILT with gray and orange mottles, trace Clay, fine Sand, Organics (rootlets), dry/moist, crumbles.		
5–8		4-8	NA	4.0	0.1		4.0-8.0' Same as above with increasing clay content.		
9–12		8-12	NA	4.0	0.1		8.0-10.5' Same as above. 10.5-12' Pinkish gray/brown CLAY, trace silt, fine to coarse Sand, and fine Gravel, moist to wet. Water table at ~11'.		
13–16		12-16	NA	4.0	0.1		12.0-16.0' Same as above, grading to gray.		
17–20									

NOTES:

Soil sample collected @10.5-11' for laboratory analysis of:
TCL list OLM04.2 VOCs (8260)

GW sample collected on 9/17/13 for analysis of:
TCL list OLM04.2 VOCs (8260)

Checked by ____ DLZ Date:____ 10/3/2013

Date	Time	Depth to groundwater while drilling

AECOM	Client: Tyco International	**BORING ID: B-2**
	Project Number: 60155991-3	
	Site Location: Former Scott Aviation Facility BCP	
	Boring Location: West side of property	Sheet: 1 of 1
	Drilling Method: Geoprobe	Monitoring Well Installed: Temp
	Sample Type(s): Macrocore — Boring Diameter: 2"	Screened Interval: 5-15' bgs
Weather: 60 degrees F, overcast, rain	Logged By: TR	Date/Time Started: 9/16/13 9:15 — Depth of Boring: 15' bgs
Drilling Contractor: Matrix	Ground Elevation: ~688	Date/Time Finished: 9/16/13 10:15 — Water Level: Water Table ~11' bgs

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1–4		0-4	NA	3.8	0.1		0-0.5' Brown TOPSOIL, rootlets throughout, dry/moist. 0.5-3.8' Tan SILT with gray and orange mottles, trace Clay, fine Sand, Organics (rootlets), dry/moist, crumbles.		
5–8		4-8	NA	4.0	0.1		4.0-7.8' Same as above with increasing clay content. 7.8-8.0 Brown Silty CLAY, moist.		
9–12		8-12	NA	4.0	0.1		8.0-9.0' Same as above. 9.0-12.0' Pinkish gray/brown CLAY, trace silt, fine to coarse Sand, and fine Gravel, moist to wet. Water table at ~11'.		
13–15		12-15	NA	3.0	0.1		12.0-15.0' Same as above, grading to gray, no Gravel observed.		
16–20									

NOTES:

Soil sample collected @10.5-11' for laboratory analysis of:
TCL list OLM04.2 VOCs (8260)

GW sample collectedon 9/25/13 for analysis of:
TCL list OLM04.2 VOCs (8260)

Checked by ____ DLZ Date:____ 10/3/2013

Date	Time	Depth to groundwater while drilling

AECOM	Client: Tyco International		**BORING ID: B-3**
	Project Number: 60155991-3		
	Site Location: Former Scott Aviation Facility BCP		
	Boring Location: West side of property		Sheet: 1 of 1
	Drilling Method: Geoprobe		Monitoring Well Installed: Temp
	Sample Type(s): Macrocore	Boring Diameter: 2"	Screened Interval: 5-15' bgs
Weather: 60 degrees F, overcast, rain	Logged By: TR	Date/Time Started: 9/16/13 10:15	Depth of Boring: 15' bgs
Drilling Contractor: Matrix	Ground Elevation: ~688	Date/Time Finished: 9/16/13 11:25	Water Level: Water Table ~11' bgs

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1		0-4	NA	3.8	0.1		0-0.5' Brown TOPSOIL, rootlets throughout, dry/moist. 0.5-3.8' Tan SILT with gray/black/orange mottles, trace Clay, fine Sand, Organics (rootlets), dry/moist, crumbles.		
2									
3									
4									
5		4-8	NA	4.0	0.1		4.0-7.8' Same as above with increasing clay content. 7.8-8.0' Orangish-brown CLAY, trace fine to medium Sand and Silt, moist.		
6									
7									
8									
9		8-12	NA	4.0	0.1		8.0-12.0' Same as above grading to pinkish gray. Water table at ~11' bgs.		
10									
11									
12									
13		12-15	NA	3.0	0.1		12.0-15.0' Same as above, softer with depth, grayer with depth.		
14									
15									
16									
17									
18									
19									
20									

NOTES:

Soil sample collected @10.5-11' for laboratory analysis of:
TCL list OLM04.2 VOCs (8260)

GW sample collectedon 9/25/13 for analysis of:
TCL list OLM04.2 VOCs (8260)

Checked by ____ DLZ Date:____ 10/3/2013

Date	Time	Depth to groundwater while drilling

AECOM	*Client: Tyco International*		***BORING ID: B-4***
	Project Number: 60155991-3		
	Site Location: Former Scott Aviation Facility BCP		
	Boring Location: West side of property		*Sheet: 1 of 1*
	Drilling Method: Geoprobe		*Monitoring Well Installed: Temp*
	Sample Type(s): Macrocore	*Boring Diameter: 2"*	*Screened Interval: 5-15' bgs*
Weather: 60 degrees F, overcast, rain	*Logged By: TR*	*Date/Time Started: 9/16/13 11:25*	*Depth of Boring: 15' bgs*
Drilling Contractor: Matrix	*Ground Elevation: ~688*	*Date/Time Finished: 9/16/13 12:00*	*Water Level: Water Table ~11' bgs*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1–4		0-4	NA	3.7	0.1		0-0.5' Brown TOPSOIL, rootlets throughout, dry/moist. 0.5-3.8' Tan SILT with gray/black/orange mottles, trace Clay, fine Sand, Organics (rootlets), dry/moist, crumbles.		
5–8		4-8	NA	4.0	0.1		4.0-8.0' Same as above with increasing clay content. Very fine sand lense at 7.5' (~1-inch thick).		
9–12		8-12	NA	4.0	0.1		8.0-12.0' Brownish gray CLAY, trace fine Sand and Silt, moist. Water table at ~11'.		
13–15		12-15	NA	3.0	0.1		12.0-15.0' Same as above, grading to grayish brown.		
16–20									

NOTES:

Soil sample collected @10.5-11' for laboratory analysis of:
TCL list OLM04.2 VOCs (8260)

GW sample collectedon 9/25/13 for analysis of:
TCL list OLM04.2 VOCs (8260)

Checked by ____ DLZ Date:____ 10/3/2013

Date	Time	Depth to groundwater while drilling

AECOM	Client: Tyco International	**BORING ID: B-5**
	Project Number: 60155991-3	
	Site Location: Former Scott Aviation Facility BCP	
	Boring Location: West side of property	Sheet: 1 of 1
	Drilling Method: Geoprobe	Monitoring Well Installed: Temp
	Sample Type(s): Macrocore — Boring Diameter: 2"	Screened Interval: 5-15' bgs
Weather: 60 degrees F, overcast, rain	Logged By: TR — Date/Time Started: 9/16/13 12:00	Depth of Boring: 15' bgs
Drilling Contractor: Matrix	Ground Elevation: ~688 — Date/Time Finished: 9/16/13 12:45	Water Level: Water Table ~11' bgs

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1–4		0-4	NA	3.8	0.1		0-0.5' Brown TOPSOIL, rootlets throughout, dry/moist. 0.5-3.8' Tan SILT with gray/black/orange mottles, trace Clay, fine Sand, Organics (rootlets), dry/moist, crumbles.		
5–8		4-8	NA	4.0	0.1		4.0-7.2' Same as above. 7.2-7.5' Brown fine SAND, moist. 7.5-8.0' Brown CLAY, trace Silt and fine Sand, moist.		
9–12		8-12	NA	4.0	0.1		8.0-12.0' Same as above, grading to pinkish gray with increasing moisture content. Water table at ~11'		
13–15		12-15	NA	3.0	0.1		12.0-15.0 Same as above, grading to gray.		
16–20									

NOTES:

Soil sample collected @10.5-11' for laboratory analysis of:
TCL list OLM04.2 VOCs (8260)

GW sample collectedon 9/25/13 for analysis of:
TCL list OLM04.2 VOCs (8260)

Checked by ____ DLZ Date:____ 10/3/2013

Date	Time	Depth to groundwater while drilling

AECOM	Client: Tyco International	**BORING ID: B-6**
	Project Number: 60155991-3	
	Site Location: Former Scott Aviation Facility BCP	
	Boring Location: West side of property	Sheet: 1 of 1
	Drilling Method: Geoprobe	Monitoring Well Installed: Temp
	Sample Type(s): Macrocore — Boring Diameter: 2"	Screened Interval: 5-15' bgs
Weather: 60 degrees F, overcast, rain	Logged By: TR — Date/Time Started: 9/16/13 12:45	Depth of Boring: 15' bgs
Drilling Contractor: Matrix	Ground Elevation: ~688 — Date/Time Finished: 9/16/13 13:30	Water Level: Water Table ~11' bgs

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1–4		0-4	NA	3.8	0.1		0-0.5' Brown TOPSOIL, rootlets throughout, dry/moist. 0.5-3.8' Tan SILT with gray/black/orange mottles, trace Clay, fine Sand, Organics (rootlets), dry/moist, crumbles.		
5–8		4-8	NA	4.0	0.1		4.0-8.0' Same as above, grades to reddish brown Silty CLAY with trace fine Sand stringers.		
9–12		8-12	NA	4.0	0.1		8.0-12.0' Same as above, grading to gray and pinkish gray Silty CLAY with Silt stringers. Water table at ~11'		
13–15		12-15	NA	3.0	0.1		12.0-15.0' Same as above, all pinkish gray.		
16–20									

NOTES:

Soil sample collected @10.5-11' for laboratory analysis of:
TCL list OLM04.2 VOCs (8260)

GW sample collectedon 9/25/13 for analysis of:
TCL list OLM04.2 VOCs (8260)

Checked by ____ DLZ Date:____ 10/3/2013

Date	Time	Depth to groundwater while drilling

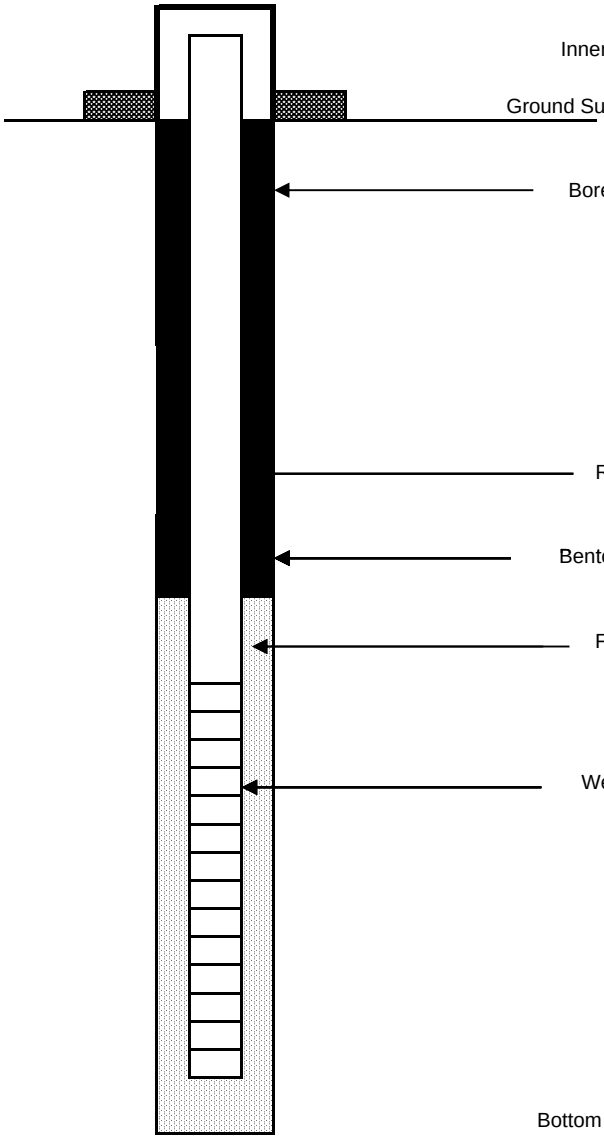
ATTACHMENT 3

Well Construction Logs

AECOM

Overburden Well Diagram **Well No. B-1**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: Matrix	Water Levels		
Surface Elevation: ~688 ft AMSL	Driller: Mark Janus	Date	Time	Depth
Top of PVC	Well Permit No.: NA	9/17/13		14.10
Casing Elevation: ~688.5 ft AMSL	AECOM Rep.: Tamara Raby	9/25/13		13.80
Datum: NGVD 1988	Date of Completion: 9/16/2013			



Inner casing stickup 0.0 ft to 0.5 ft

Ground Surface

Borehole diameter 2.0 inches
(direct push)

Riser Pipe from 0.5 ft to -5.0 ft

Bentonite seal from 0.0 ft to -4.0 ft

Filter pack from -9.0 ft to -15.0 ft

Sand Size #00N

Well screen from -10.0 ft to -15.0 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -15.0 ft

Bottom of Borehole at -16.0 ft
natural collapse -15.0 to -16.0 ft.

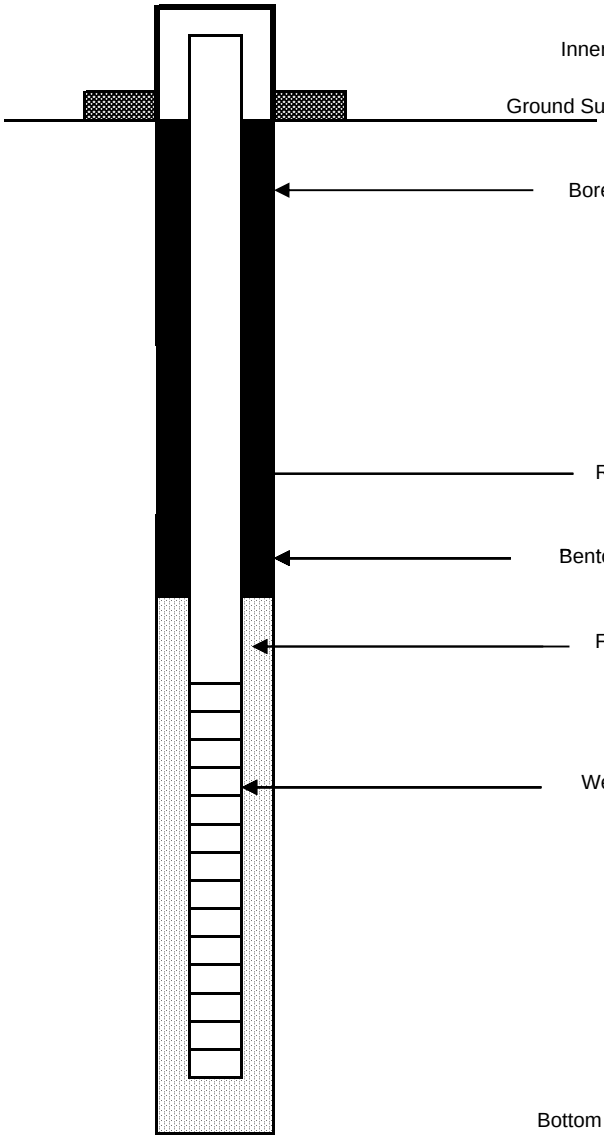
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. B-2**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: Matrix	Water Levels		
Surface Elevation: ~688 ft AMSL	Driller: Mark Janus	Date	Time	Depth
Top of PVC	Well Permit No.: NA	9/17/13		14.50
Casing Elevation: ~688.5 ft AMSL	AECOM Rep.: Tamara Raby	9/25/13		13.80
Datum: NGVD 1988	Date of Completion: 9/16/2013			



Inner casing stickup 0.0 ft to 0.5 ft

Ground Surface

Borehole diameter 2.0 inches
(direct push)

Riser Pipe from 0.5 ft to -10.0 ft

Bentonite seal from 0.0 ft to -4.0 ft

Filter pack from -4.0 ft to -15.0 ft

Sand Size #00N

Well screen from -5.0 ft to -15.0 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -15.0 ft

Bottom of Borehole at -15.0 ft

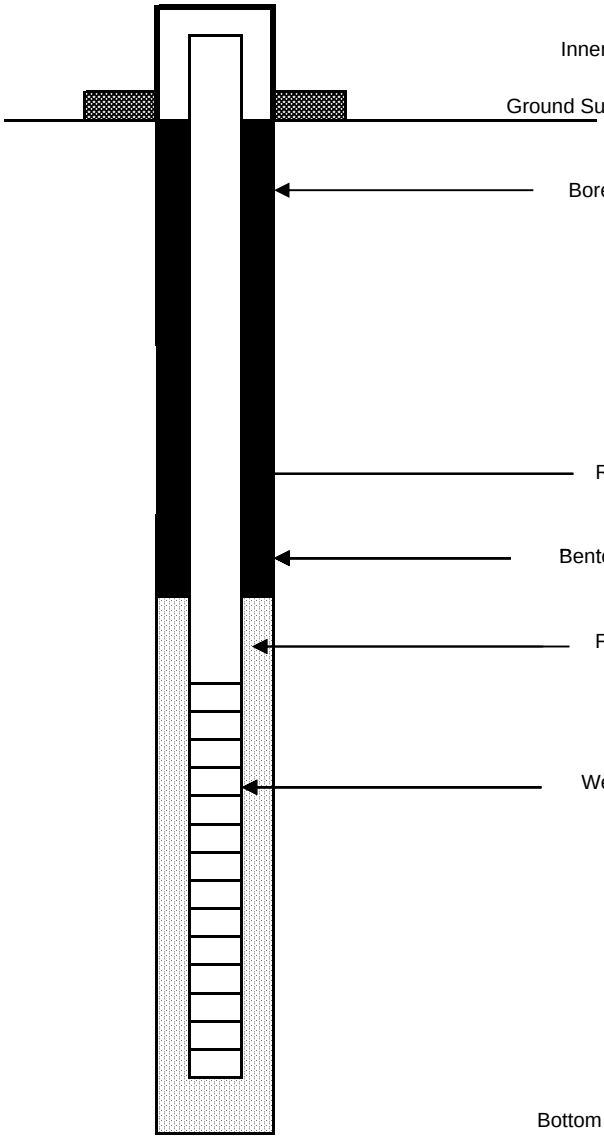
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. B-3**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: Matrix	Water Levels		
Surface Elevation: ~688 ft AMSL	Driller: Mark Janus	Date	Time	Depth
Top of PVC	Well Permit No.: NA	9/17/13		14.40
Casing Elevation: ~688.5 ft AMSL	AECOM Rep.: Tamara Raby	9/25/13		10.65
Datum: NGVD 1988	Date of Completion: 9/16/2013			



Inner casing stickup 0.0 ft to 0.5 ft

Ground Surface

Borehole diameter 2.0 inches
(direct push)

Riser Pipe from 0.5 ft to -10.0 ft

Bentonite seal from 0.0 ft to -4.0 ft

Filter pack from -4.0 ft to -15.0 ft

Sand Size #00N

Well screen from -5.0 ft to -15.0 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -15.0 ft

Bottom of Borehole at -15.0 ft

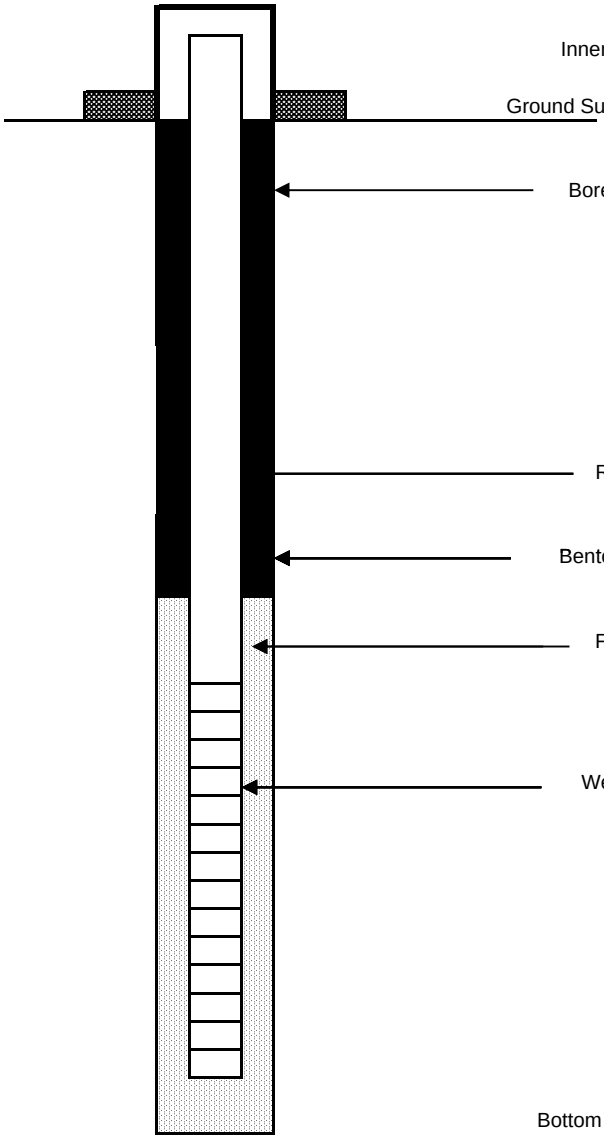
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. B-4**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: Matrix	Water Levels		
Surface Elevation: ~688 ft AMSL	Driller: Mark Janus	Date	Time	Depth
Top of PVC	Well Permit No.: NA	9/17/13		14.30
Casing Elevation: ~688.5 ft AMSL	AECOM Rep.: Tamara Raby	9/25/13		13.15
Datum: NGVD 1988	Date of Completion: 9/16/2013			



Inner casing stickup 0.0 ft to 0.5 ft

Ground Surface

Borehole diameter 2.0 inches
(direct push)

Riser Pipe from 0.5 ft to -10.0 ft

Bentonite seal from 0.0 ft to -4.0 ft

Filter pack from -4.0 ft to -15.0 ft

Sand Size #00N

Well screen from -5.0 ft to -15.0 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -15.0 ft

Bottom of Borehole at -15.0 ft

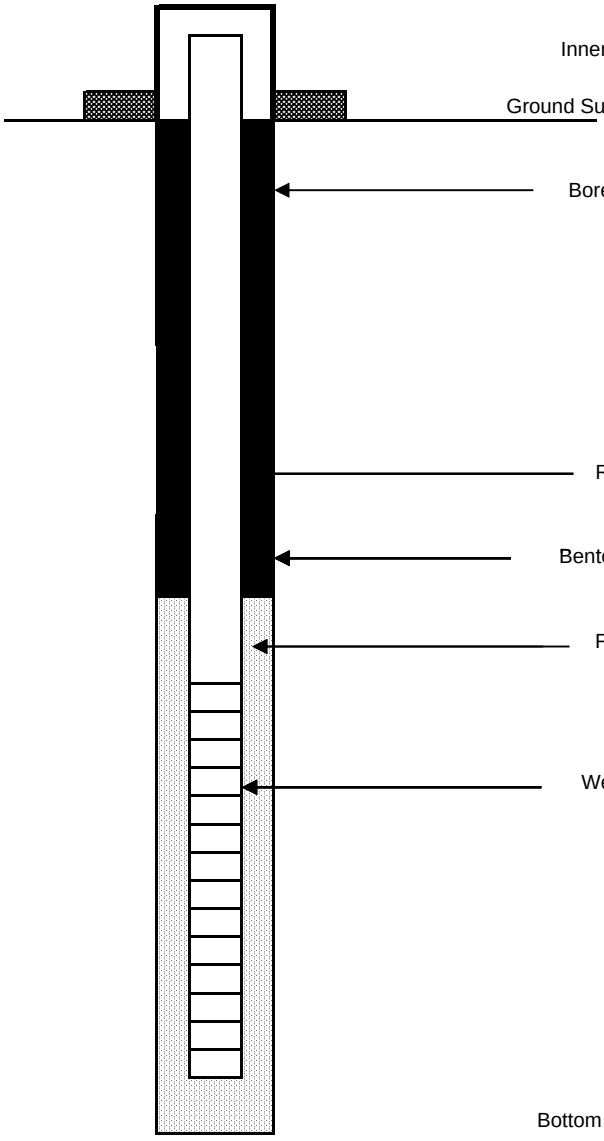
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. B-5**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: Matrix	Water Levels		
Surface Elevation: ~688 ft AMSL	Driller: Mark Janus	Date	Time	Depth
Top of PVC	Well Permit No.: NA	9/17/13		14.50
Casing Elevation: ~688.5 ft AMSL	AECOM Rep.: Tamara Raby	9/25/13		14.10
Datum: NGVD 1988	Date of Completion: 9/16/2013			



Inner casing stickup 0.0 ft to 0.5 ft

Ground Surface

Borehole diameter 2.0 inches
(direct push)

Riser Pipe from 0.5 ft to -10.0 ft

Bentonite seal from 0.0 ft to -4.0 ft

Filter pack from -4.0 ft to -15.0 ft

Sand Size #00N

Well screen from -5.0 ft to -15.0 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -15.0 ft

Bottom of Borehole at -15.0 ft

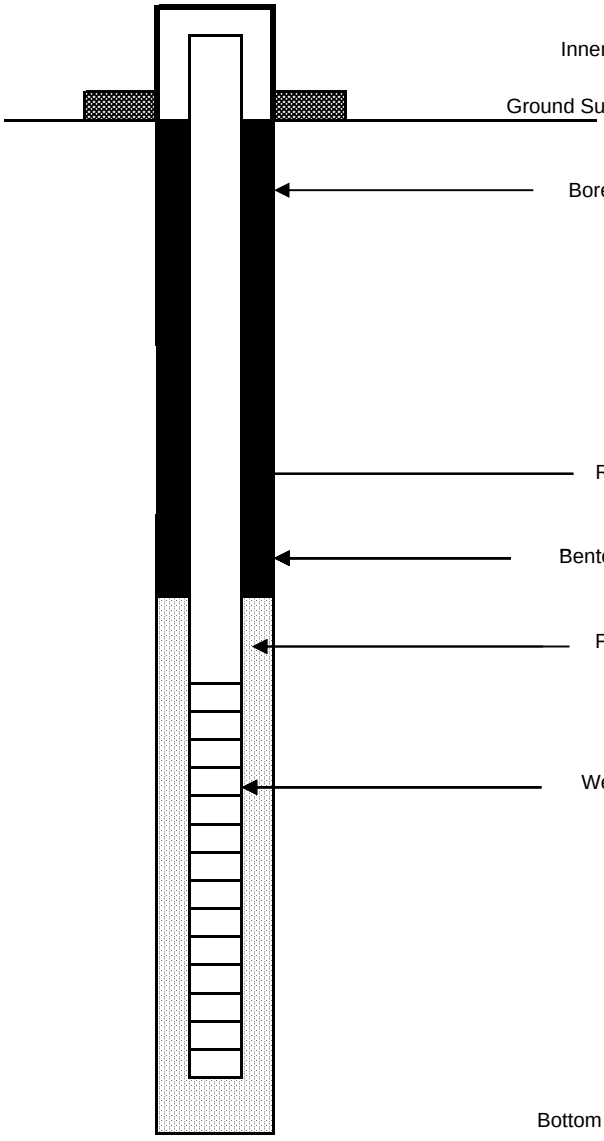
Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

Overburden Well Diagram **Well No. B-6**

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: Matrix	Water Levels		
Surface Elevation: ~688 ft AMSL	Driller: Mark Janus	Date	Time	Depth
Top of PVC	Well Permit No.: NA	9/17/13		14.30
Casing Elevation: ~688.5 ft AMSL	AECOM Rep.: Tamara Raby	9/25/13		13.95
Datum: NGVD 1988	Date of Completion: 9/16/2013			



Inner casing stickup 0.0 ft to 0.5 ft

Ground Surface

Borehole diameter 2.0 inches
(direct push)

Riser Pipe from 0.5 ft to -10.0 ft

Bentonite seal from 0.0 ft to -4.0 ft

Filter pack from -4.0 ft to -15.0 ft

Sand Size #00N

Well screen from -5.0 ft to -15.0 ft

Diameter 1 inches
Slot size 0.01 inches
Type PVC

Bottom Cap at -15.0 ft

Bottom of Borehole at -15.0 ft

Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)

AECOM

ATTACHMENT 4

Analytical Laboratory Summary Sheets
(Full data reports available upon request)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

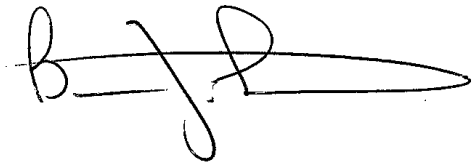
ANALYTICAL REPORT

Job Number: 480-45961-1

Job Description: Tyco Int'l Facility-BCP(AECOM# 60155991)

For:
AECOM, Inc.
100 Corporate Parkway
Suite 341
Amherst, NY 14226

Attention: Mr. Dino Zack



Approved for release.
Brian J Fischer
Project Manager II
9/30/2013 6:00 PM

Brian J Fischer, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9835
brian.fischer@testamericainc.com
09/30/2013

cc: Ms. Helen Jones

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Job Narrative
480-45961-1

Comments
No additional comments.

Receipt
The samples were received on 9/17/2013 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.9º C and 4.3º C.

GC/MS VOA
Method(s) 8260B: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: B-1 GW 09172013 (480-45961-8). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 480-45961-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-45961-1	B-1 (10.5-11)	Solid	09/16/2013 0900	09/17/2013 1620
480-45961-2	B-2 (10.5-11)	Solid	09/16/2013 0930	09/17/2013 1620
480-45961-3	B-3 (10.5-11)	Solid	09/16/2013 1030	09/17/2013 1620
480-45961-4	B-4 (10.5-11)	Solid	09/16/2013 1140	09/17/2013 1620
480-45961-5	B-5 (10.5-11)	Solid	09/16/2013 1215	09/17/2013 1620
480-45961-6	B-6 (10.5-11)	Solid	09/16/2013 1300	09/17/2013 1620
480-45961-7	TRIP BLANK	Water	09/16/2013 0000	09/17/2013 1620
480-45961-8	B-1 GW 09172013	Water	09/17/2013 1315	09/17/2013 1620

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc. Job Number: 480-45961-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-45961-1	**B-1 (10.5-11)**					
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture
480-45961-2	**B-2 (10.5-11)**					
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
480-45961-3	**B-3 (10.5-11)**					
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
480-45961-4	**B-4 (10.5-11)**					
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
480-45961-5	**B-5 (10.5-11)**					
Acetone		12	J	22	ug/Kg	8260B
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
480-45961-6	**B-6 (10.5-11)**					
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture

METHOD SUMMARY

Client: AECOM, Inc. Job Number: 480-45961-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Closed System Purge and Trap	TAL BUF		SW846 5035
Percent Moisture	TAL BUF	EPA Moisture	
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: AECOM, Inc. Job Number: 480-45961-1

Method	Analyst	Analyst ID
SW846 8260B	Brandt, Todd R	TRB
SW846 8260B	Quirk, Patrick J	PJQ
EPA Moisture	Cwiklinski, Charles D	CDC

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-1 (10.5-11)**

Lab Sample ID: 480-45961-1 Date Sampled: 09/16/2013 0900
Client Matrix: Solid % Moisture: 15.0 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1426.D
Dilution:	1.0			Initial Weight/Volume:	7.2 g
Analysis Date:	09/19/2013 0154			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.30	4.1
1,1,2,2-Tetrachloroethane		ND		0.66	4.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.93	4.1
1,1,2-Trichloroethane		ND		0.53	4.1
1,1-Dichloroethane		ND		0.50	4.1
1,1-Dichloroethene		ND		0.50	4.1
1,2,4-Trichlorobenzene		ND		0.25	4.1
1,2-Dibromo-3-Chloropropane		ND		2.0	4.1
1,2-Dibromoethane		ND		0.52	4.1
1,2-Dichlorobenzene		ND		0.32	4.1
1,2-Dichloroethane		ND		0.21	4.1
1,2-Dichloropropane		ND		2.0	4.1
1,3-Dichlorobenzene		ND		0.21	4.1
1,4-Dichlorobenzene		ND		0.57	4.1
2-Butanone (MEK)		ND		1.5	20
2-Hexanone		ND		2.0	20
4-Methyl-2-pentanone (MIBK)		ND		1.3	20
Acetone		ND		3.4	20
Benzene		ND		0.20	4.1
Bromodichloromethane		ND		0.55	4.1
Bromoform		ND		2.0	4.1
Bromomethane		ND		0.37	4.1
Carbon disulfide		ND		2.0	4.1
Carbon tetrachloride		ND		0.40	4.1
Chlorobenzene		ND		0.54	4.1
Chloroethane		ND		0.92	4.1
Chloroform		ND		0.25	4.1
Chloromethane		ND		0.25	4.1
cis-1,2-Dichloroethene		ND		0.52	4.1
cis-1,3-Dichloropropene		ND		0.59	4.1
Cyclohexane		ND		0.57	4.1
Dibromochloromethane		ND		0.52	4.1
Dichlorodifluoromethane		ND		0.34	4.1
Ethylbenzene		ND		0.28	4.1
Isopropylbenzene		ND		0.62	4.1
Methyl acetate		ND		0.76	4.1
Methyl tert-butyl ether		ND		0.40	4.1
Methylcyclohexane		ND		0.62	4.1
Methylene Chloride		ND		1.9	4.1
Styrene		ND		0.20	4.1
Tetrachloroethene		ND		0.55	4.1
Toluene		ND		0.31	4.1
trans-1,2-Dichloroethene		ND		0.42	4.1
trans-1,3-Dichloropropene		ND		1.8	4.1
Trichloroethene		ND		0.90	4.1
Trichlorofluoromethane		ND		0.39	4.1

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-1 (10.5-11)**

Lab Sample ID: 480-45961-1 Date Sampled: 09/16/2013 0900
Client Matrix: Solid % Moisture: 15.0 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1426.D
Dilution:	1.0			Initial Weight/Volume:	7.2 g
Analysis Date:	09/19/2013 0154			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.50	4.1
Xylenes, Total		ND		0.69	8.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		64 - 126
4-Bromofluorobenzene (Surr)	104		72 - 126
Toluene-d8 (Surr)	103		71 - 125

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-2 (10.5-11)**

Lab Sample ID: 480-45961-2 Date Sampled: 09/16/2013 0930
Client Matrix: Solid % Moisture: 16.6 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1427.D
Dilution:	1.0			Initial Weight/Volume:	6.54 g
Analysis Date:	09/19/2013 0220			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.33	4.6
1,1,2,2-Tetrachloroethane		ND		0.74	4.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	4.6
1,1,2-Trichloroethane		ND		0.60	4.6
1,1-Dichloroethane		ND		0.56	4.6
1,1-Dichloroethene		ND		0.56	4.6
1,2,4-Trichlorobenzene		ND		0.28	4.6
1,2-Dibromo-3-Chloropropane		ND		2.3	4.6
1,2-Dibromoethane		ND		0.59	4.6
1,2-Dichlorobenzene		ND		0.36	4.6
1,2-Dichloroethane		ND		0.23	4.6
1,2-Dichloropropane		ND		2.3	4.6
1,3-Dichlorobenzene		ND		0.24	4.6
1,4-Dichlorobenzene		ND		0.64	4.6
2-Butanone (MEK)		ND		1.7	23
2-Hexanone		ND		2.3	23
4-Methyl-2-pentanone (MIBK)		ND		1.5	23
Acetone		ND		3.9	23
Benzene		ND		0.22	4.6
Bromodichloromethane		ND		0.61	4.6
Bromoform		ND		2.3	4.6
Bromomethane		ND		0.41	4.6
Carbon disulfide		ND		2.3	4.6
Carbon tetrachloride		ND		0.44	4.6
Chlorobenzene		ND		0.61	4.6
Chloroethane		ND		1.0	4.6
Chloroform		ND		0.28	4.6
Chloromethane		ND		0.28	4.6
cis-1,2-Dichloroethene		ND		0.59	4.6
cis-1,3-Dichloropropene		ND		0.66	4.6
Cyclohexane		ND		0.64	4.6
Dibromochloromethane		ND		0.59	4.6
Dichlorodifluoromethane		ND		0.38	4.6
Ethylbenzene		ND		0.32	4.6
Isopropylbenzene		ND		0.69	4.6
Methyl acetate		ND		0.85	4.6
Methyl tert-butyl ether		ND		0.45	4.6
Methylcyclohexane		ND		0.70	4.6
Methylene Chloride		ND		2.1	4.6
Styrene		ND		0.23	4.6
Tetrachloroethene		ND		0.62	4.6
Toluene		ND		0.35	4.6
trans-1,2-Dichloroethene		ND		0.47	4.6
trans-1,3-Dichloropropene		ND		2.0	4.6
Trichloroethene		ND		1.0	4.6
Trichlorofluoromethane		ND		0.43	4.6

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-2 (10.5-11)**

Lab Sample ID: 480-45961-2 Date Sampled: 09/16/2013 0930
Client Matrix: Solid % Moisture: 16.6 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1427.D
Dilution:	1.0			Initial Weight/Volume:	6.54 g
Analysis Date:	09/19/2013 0220			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.56	4.6
Xylenes, Total		ND		0.77	9.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 126
4-Bromofluorobenzene (Surr)	100		72 - 126
Toluene-d8 (Surr)	99		71 - 125

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-3 (10.5-11)**

Lab Sample ID: 480-45961-3 Date Sampled: 09/16/2013 1030
Client Matrix: Solid % Moisture: 17.0 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1428.D
Dilution:	1.0			Initial Weight/Volume:	6.91 g
Analysis Date:	09/19/2013 0245			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.32	4.4
1,1,2,2-Tetrachloroethane		ND		0.71	4.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	4.4
1,1,2-Trichloroethane		ND		0.57	4.4
1,1-Dichloroethane		ND		0.53	4.4
1,1-Dichloroethene		ND		0.53	4.4
1,2,4-Trichlorobenzene		ND		0.26	4.4
1,2-Dibromo-3-Chloropropane		ND		2.2	4.4
1,2-Dibromoethane		ND		0.56	4.4
1,2-Dichlorobenzene		ND		0.34	4.4
1,2-Dichloroethane		ND		0.22	4.4
1,2-Dichloropropane		ND		2.2	4.4
1,3-Dichlorobenzene		ND		0.22	4.4
1,4-Dichlorobenzene		ND		0.61	4.4
2-Butanone (MEK)		ND		1.6	22
2-Hexanone		ND		2.2	22
4-Methyl-2-pentanone (MIBK)		ND		1.4	22
Acetone		ND		3.7	22
Benzene		ND		0.21	4.4
Bromodichloromethane		ND		0.58	4.4
Bromoform		ND		2.2	4.4
Bromomethane		ND		0.39	4.4
Carbon disulfide		ND		2.2	4.4
Carbon tetrachloride		ND		0.42	4.4
Chlorobenzene		ND		0.58	4.4
Chloroethane		ND		0.98	4.4
Chloroform		ND		0.27	4.4
Chloromethane		ND		0.26	4.4
cis-1,2-Dichloroethene		ND		0.56	4.4
cis-1,3-Dichloropropene		ND		0.63	4.4
Cyclohexane		ND		0.61	4.4
Dibromochloromethane		ND		0.56	4.4
Dichlorodifluoromethane		ND		0.36	4.4
Ethylbenzene		ND		0.30	4.4
Isopropylbenzene		ND		0.66	4.4
Methyl acetate		ND		0.81	4.4
Methyl tert-butyl ether		ND		0.43	4.4
Methylcyclohexane		ND		0.66	4.4
Methylene Chloride		ND		2.0	4.4
Styrene		ND		0.22	4.4
Tetrachloroethene		ND		0.58	4.4
Toluene		ND		0.33	4.4
trans-1,2-Dichloroethene		ND		0.45	4.4
trans-1,3-Dichloropropene		ND		1.9	4.4
Trichloroethene		ND		0.96	4.4
Trichlorofluoromethane		ND		0.41	4.4

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-3 (10.5-11)**

Lab Sample ID: 480-45961-3 Date Sampled: 09/16/2013 1030
Client Matrix: Solid % Moisture: 17.0 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1428.D
Dilution:	1.0			Initial Weight/Volume:	6.91 g
Analysis Date:	09/19/2013 0245			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.53	4.4
Xylenes, Total		ND		0.73	8.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 126
4-Bromofluorobenzene (Surr)	102		72 - 126
Toluene-d8 (Surr)	101		71 - 125

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-4 (10.5-11)**

Lab Sample ID: 480-45961-4 Date Sampled: 09/16/2013 1140
Client Matrix: Solid % Moisture: 16.8 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1429.D
Dilution:	1.0			Initial Weight/Volume:	7.81 g
Analysis Date:	09/19/2013 0311			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.28	3.8
1,1,2,2-Tetrachloroethane		ND		0.62	3.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.88	3.8
1,1,2-Trichloroethane		ND		0.50	3.8
1,1-Dichloroethane		ND		0.47	3.8
1,1-Dichloroethene		ND		0.47	3.8
1,2,4-Trichlorobenzene		ND		0.23	3.8
1,2-Dibromo-3-Chloropropane		ND		1.9	3.8
1,2-Dibromoethane		ND		0.49	3.8
1,2-Dichlorobenzene		ND		0.30	3.8
1,2-Dichloroethane		ND		0.19	3.8
1,2-Dichloropropane		ND		1.9	3.8
1,3-Dichlorobenzene		ND		0.20	3.8
1,4-Dichlorobenzene		ND		0.54	3.8
2-Butanone (MEK)		ND		1.4	19
2-Hexanone		ND		1.9	19
4-Methyl-2-pentanone (MIBK)		ND		1.3	19
Acetone		ND		3.2	19
Benzene		ND		0.19	3.8
Bromodichloromethane		ND		0.52	3.8
Bromoform		ND		1.9	3.8
Bromomethane		ND		0.35	3.8
Carbon disulfide		ND		1.9	3.8
Carbon tetrachloride		ND		0.37	3.8
Chlorobenzene		ND		0.51	3.8
Chloroethane		ND		0.87	3.8
Chloroform		ND		0.24	3.8
Chloromethane		ND		0.23	3.8
cis-1,2-Dichloroethene		ND		0.49	3.8
cis-1,3-Dichloropropene		ND		0.55	3.8
Cyclohexane		ND		0.54	3.8
Dibromochloromethane		ND		0.49	3.8
Dichlorodifluoromethane		ND		0.32	3.8
Ethylbenzene		ND		0.27	3.8
Isopropylbenzene		ND		0.58	3.8
Methyl acetate		ND		0.72	3.8
Methyl tert-butyl ether		ND		0.38	3.8
Methylcyclohexane		ND		0.59	3.8
Methylene Chloride		ND		1.8	3.8
Styrene		ND		0.19	3.8
Tetrachloroethene		ND		0.52	3.8
Toluene		ND		0.29	3.8
trans-1,2-Dichloroethene		ND		0.40	3.8
trans-1,3-Dichloropropene		ND		1.7	3.8
Trichloroethene		ND		0.85	3.8
Trichlorofluoromethane		ND		0.36	3.8

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-4 (10.5-11)**

Lab Sample ID: 480-45961-4 Date Sampled: 09/16/2013 1140
Client Matrix: Solid % Moisture: 16.8 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1429.D
Dilution:	1.0			Initial Weight/Volume:	7.81 g
Analysis Date:	09/19/2013 0311			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.47	3.8
Xylenes, Total		ND		0.65	7.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
4-Bromofluorobenzene (Surr)	99		72 - 126
Toluene-d8 (Surr)	101		71 - 125

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-5 (10.5-11)**

Lab Sample ID: 480-45961-5 Date Sampled: 09/16/2013 1215
Client Matrix: Solid % Moisture: 18.4 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1430.D
Dilution:	1.0			Initial Weight/Volume:	6.9 g
Analysis Date:	09/19/2013 0337			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.32	4.4
1,1,2,2-Tetrachloroethane		ND		0.72	4.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	4.4
1,1,2-Trichloroethane		ND		0.58	4.4
1,1-Dichloroethane		ND		0.54	4.4
1,1-Dichloroethene		ND		0.54	4.4
1,2,4-Trichlorobenzene		ND		0.27	4.4
1,2-Dibromo-3-Chloropropane		ND		2.2	4.4
1,2-Dibromoethane		ND		0.57	4.4
1,2-Dichlorobenzene		ND		0.35	4.4
1,2-Dichloroethane		ND		0.22	4.4
1,2-Dichloropropane		ND		2.2	4.4
1,3-Dichlorobenzene		ND		0.23	4.4
1,4-Dichlorobenzene		ND		0.62	4.4
2-Butanone (MEK)		ND		1.6	22
2-Hexanone		ND		2.2	22
4-Methyl-2-pentanone (MIBK)		ND		1.5	22
Acetone		12	J	3.7	22
Benzene		ND		0.22	4.4
Bromodichloromethane		ND		0.60	4.4
Bromoform		ND		2.2	4.4
Bromomethane		ND		0.40	4.4
Carbon disulfide		ND		2.2	4.4
Carbon tetrachloride		ND		0.43	4.4
Chlorobenzene		ND		0.59	4.4
Chloroethane		ND		1.0	4.4
Chloroform		ND		0.27	4.4
Chloromethane		ND		0.27	4.4
cis-1,2-Dichloroethene		ND		0.57	4.4
cis-1,3-Dichloropropene		ND		0.64	4.4
Cyclohexane		ND		0.62	4.4
Dibromochloromethane		ND		0.57	4.4
Dichlorodifluoromethane		ND		0.37	4.4
Ethylbenzene		ND		0.31	4.4
Isopropylbenzene		ND		0.67	4.4
Methyl acetate		ND		0.83	4.4
Methyl tert-butyl ether		ND		0.44	4.4
Methylcyclohexane		ND		0.68	4.4
Methylene Chloride		ND		2.0	4.4
Styrene		ND		0.22	4.4
Tetrachloroethene		ND		0.60	4.4
Toluene		ND		0.34	4.4
trans-1,2-Dichloroethene		ND		0.46	4.4
trans-1,3-Dichloropropene		ND		2.0	4.4
Trichloroethene		ND		0.98	4.4
Trichlorofluoromethane		ND		0.42	4.4

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-5 (10.5-11)**

Lab Sample ID: 480-45961-5 Date Sampled: 09/16/2013 1215
Client Matrix: Solid % Moisture: 18.4 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1430.D
Dilution:	1.0			Initial Weight/Volume:	6.9 g
Analysis Date:	09/19/2013 0337			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.54	4.4
Xylenes, Total		ND		0.75	8.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		64 - 126
4-Bromofluorobenzene (Surr)	98		72 - 126
Toluene-d8 (Surr)	101		71 - 125

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-6 (10.5-11)**

Lab Sample ID: 480-45961-6 Date Sampled: 09/16/2013 1300
Client Matrix: Solid % Moisture: 17.6 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1431.D
Dilution:	1.0			Initial Weight/Volume:	6.99 g
Analysis Date:	09/19/2013 0402			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.32	4.3
1,1,2,2-Tetrachloroethane		ND		0.70	4.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.99	4.3
1,1,2-Trichloroethane		ND		0.56	4.3
1,1-Dichloroethane		ND		0.53	4.3
1,1-Dichloroethene		ND		0.53	4.3
1,2,4-Trichlorobenzene		ND		0.26	4.3
1,2-Dibromo-3-Chloropropane		ND		2.2	4.3
1,2-Dibromoethane		ND		0.56	4.3
1,2-Dichlorobenzene		ND		0.34	4.3
1,2-Dichloroethane		ND		0.22	4.3
1,2-Dichloropropane		ND		2.2	4.3
1,3-Dichlorobenzene		ND		0.22	4.3
1,4-Dichlorobenzene		ND		0.61	4.3
2-Butanone (MEK)		ND		1.6	22
2-Hexanone		ND		2.2	22
4-Methyl-2-pentanone (MIBK)		ND		1.4	22
Acetone		ND		3.7	22
Benzene		ND		0.21	4.3
Bromodichloromethane		ND		0.58	4.3
Bromoform		ND		2.2	4.3
Bromomethane		ND		0.39	4.3
Carbon disulfide		ND		2.2	4.3
Carbon tetrachloride		ND		0.42	4.3
Chlorobenzene		ND		0.57	4.3
Chloroethane		ND		0.98	4.3
Chloroform		ND		0.27	4.3
Chloromethane		ND		0.26	4.3
cis-1,2-Dichloroethene		ND		0.56	4.3
cis-1,3-Dichloropropene		ND		0.63	4.3
Cyclohexane		ND		0.61	4.3
Dibromochloromethane		ND		0.56	4.3
Dichlorodifluoromethane		ND		0.36	4.3
Ethylbenzene		ND		0.30	4.3
Isopropylbenzene		ND		0.65	4.3
Methyl acetate		ND		0.81	4.3
Methyl tert-butyl ether		ND		0.43	4.3
Methylcyclohexane		ND		0.66	4.3
Methylene Chloride		ND		2.0	4.3
Styrene		ND		0.22	4.3
Tetrachloroethene		ND		0.58	4.3
Toluene		ND		0.33	4.3
trans-1,2-Dichloroethene		ND		0.45	4.3
trans-1,3-Dichloropropene		ND		1.9	4.3
Trichloroethene		ND		0.96	4.3
Trichlorofluoromethane		ND		0.41	4.3

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-6 (10.5-11)**

Lab Sample ID: 480-45961-6 Date Sampled: 09/16/2013 1300
Client Matrix: Solid % Moisture: 17.6 Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139832	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-139845	Lab File ID:	F1431.D
Dilution:	1.0			Initial Weight/Volume:	6.99 g
Analysis Date:	09/19/2013 0402			Final Weight/Volume:	5 g
Prep Date:	09/18/2013 2252				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.53	4.3
Xylenes, Total		ND		0.73	8.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		64 - 126
4-Bromofluorobenzene (Surr)	98		72 - 126
Toluene-d8 (Surr)	101		71 - 125

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-45961-7 Date Sampled: 09/16/2013 0000
Client Matrix: Water Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139828	Instrument ID:	HP5975D
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	D5486.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2013 2209			Final Weight/Volume:	5 mL
Prep Date:	09/18/2013 2209				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-45961-7 Date Sampled: 09/16/2013 0000
Client Matrix: Water Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139828	Instrument ID:	HP5975D
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	D5486.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2013 2209			Final Weight/Volume:	5 mL
Prep Date:	09/18/2013 2209				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83		66 - 137
4-Bromofluorobenzene (Surr)	87		73 - 120
Toluene-d8 (Surr)	87		71 - 126

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-1 GW 09172013**

Lab Sample ID: 480-45961-8 Date Sampled: 09/17/2013 1315
Client Matrix: Water Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139828	Instrument ID:	HP5975D
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	D5487.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2013 2230			Final Weight/Volume:	5 mL
Prep Date:	09/18/2013 2230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		4.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.1	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.6	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.9	5.0
1,1-Dichloroethene	ND		1.5	5.0
1,2,4-Trichlorobenzene	ND		2.1	5.0
1,2-Dibromo-3-Chloropropane	ND		2.0	5.0
1,2-Dibromoethane	ND		3.7	5.0
1,2-Dichlorobenzene	ND		4.0	5.0
1,2-Dichloroethane	ND		1.1	5.0
1,2-Dichloropropane	ND		3.6	5.0
1,3-Dichlorobenzene	ND		3.9	5.0
1,4-Dichlorobenzene	ND		4.2	5.0
2-Butanone (MEK)	ND		6.6	50
2-Hexanone	ND		6.2	25
4-Methyl-2-pentanone (MIBK)	ND		11	25
Acetone	ND		15	50
Benzene	ND		2.1	5.0
Bromodichloromethane	ND		2.0	5.0
Bromoform	ND		1.3	5.0
Bromomethane	ND		3.5	5.0
Carbon disulfide	ND		0.95	5.0
Carbon tetrachloride	ND		1.4	5.0
Chlorobenzene	ND		3.8	5.0
Chloroethane	ND		1.6	5.0
Chloroform	ND		1.7	5.0
Chloromethane	ND		1.8	5.0
cis-1,2-Dichloroethene	ND		4.1	5.0
cis-1,3-Dichloropropene	ND		1.8	5.0
Cyclohexane	ND		0.90	5.0
Dibromochloromethane	ND		1.6	5.0
Dichlorodifluoromethane	ND		3.4	5.0
Ethylbenzene	ND		3.7	5.0
Isopropylbenzene	ND		4.0	5.0
Methyl acetate	ND		2.5	5.0
Methyl tert-butyl ether	ND		0.80	5.0
Methylcyclohexane	ND		0.80	5.0
Methylene Chloride	ND		2.2	5.0
Styrene	ND		3.7	5.0
Tetrachloroethene	ND		1.8	5.0
Toluene	ND		2.6	5.0
trans-1,2-Dichloroethene	ND		4.5	5.0
trans-1,3-Dichloropropene	ND		1.9	5.0
Trichloroethene	ND		2.3	5.0
Trichlorofluoromethane	ND		4.4	5.0

Client: AECOM, Inc. Job Number: 480-45961-1

Client Sample ID: **B-1 GW 09172013**

Lab Sample ID: 480-45961-8 Date Sampled: 09/17/2013 1315
Client Matrix: Water Date Received: 09/17/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-139828	Instrument ID:	HP5975D
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	D5487.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2013 2230			Final Weight/Volume:	5 mL
Prep Date:	09/18/2013 2230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		4.5	5.0
Xylenes, Total	ND		3.3	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81		66 - 137
4-Bromofluorobenzene (Surr)	86		73 - 120
Toluene-d8 (Surr)	89		71 - 126

Test America Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: TAMARA RABY	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-39334-10380.2
Client Contact: Mr. Dino Zack	Phone: 716 8364500	E-Mail: brian.fischer@testamericainc.com		Page: Page 2 of 2 ~~3~~ 1 of 1
Company: AECOM, Inc.				Job #:

Address: 100 Corporate Parkway Suite 341	Due Date Requested: 9/20/13
City: Amherst	TAT Requested (days): 3 day
State, Zip: NY, 14226	
Phone:	PO #: Purchase Order not required
Email: dino.zack@aecom.com	WO #:
Project Name: Tyco Int'l Facility - BCP (AECOM# 601559	Project #: 48008494
Site:	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - TCL list OLM04.2	8260B - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
B-1 (10.5-11)	9/16/13	900	G	S ~~Water~~			✓			
B-2 (10.5-11		930		S			✓			
B-3 (10.5-11		1030		S			✓			
B-4 (10.5-11		1140		S			✓			
B-5 (10.5-11		1215		S			✓			
B-6 (10.5-11)	↓	1300		S			✓			
TRIP BLANK	↓	—		W				✓		
B-1 GW 09172013	9/17/13	1315	↓	W				A		

480-45961 Chain of Custody

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: * 3 DAY TAT

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tamara Raby	9/17/13 1620			9/17/13 1620	TAL BUFFALO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/18	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: # 2 3.9, 4.3

09/30/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 480-45961-1

Login Number: 45961

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	N/A	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

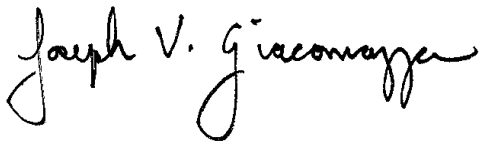
ANALYTICAL REPORT

Job Number: 480-46536-1

Job Description: Tyco Int'l Facility-BCP(AECOM# 60155991)

For:
AECOM, Inc.
100 Corporate Parkway
Suite 341
Amherst, NY 14226

Attention: Mr. Dino Zack



Approved for release.
Joe V Giacomazza
Project Administrator
9/30/2013 10:34 AM

Designee for
Brian J Fischer, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9835
brian.fischer@testamericainc.com
09/30/2013

cc: Ms. Helen Jones

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Job Narrative
480-46536-1

Receipt
The samples were received on 9/25/2013 4:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method(s) 8260B: The following samples were composited by the laboratory on 09/26/2013 due to excessive sediment in the sample vials: B-3 GW 09252013 (480-46536-2).

Method(s) 8260B: The continuing calibration verification (CCV) for analytical batch 141221 recovered outside control limits for trans-1,4-Dichloro-2-butene. This was not a client requested analyte; therefore, the data have been reported.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 480-46536-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-46536-1	B-2 GW 09252013	Water	09/25/2013 1410	09/25/2013 1615
480-46536-2	B-3 GW 09252013	Water	09/25/2013 1420	09/25/2013 1615
480-46536-3	B-4 GW 09252013	Water	09/25/2013 1435	09/25/2013 1615
480-46536-4	B-5 GW 09252013	Water	09/25/2013 1445	09/25/2013 1615
480-46536-5	B-6 GW 09252013	Water	09/25/2013 1500	09/25/2013 1615
480-46536-6	TRIP BLANK	Water	09/25/2013 0000	09/25/2013 1615

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc. Job Number: 480-46536-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-46536-1	**B-2 GW 09252013**					
Acetone		10		10	ug/L	8260B
480-46536-2	**B-3 GW 09252013**					
Acetone		10		10	ug/L	8260B
480-46536-3	**B-4 GW 09252013**					
Acetone		4.4	J	10	ug/L	8260B
480-46536-4	**B-5 GW 09252013**					
Acetone		35		10	ug/L	8260B
480-46536-5	**B-6 GW 09252013**					
2-Butanone (MEK)		4.1	J	10	ug/L	8260B
Acetone		37		10	ug/L	8260B
480-46536-6	**TRIP BLANK**					
Acetone		5.6	J	10	ug/L	8260B

METHOD SUMMARY

Client: AECOM, Inc. Job Number: 480-46536-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: AECOM, Inc. Job Number: 480-46536-1

Method	Analyst	Analyst ID
SW846 8260B	Larson, Renee A	RAL

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-2 GW 09252013**

Lab Sample ID: 480-46536-1 Date Sampled: 09/25/2013 1410
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30540.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1629			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1629				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	10		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-2 GW 09252013**

Lab Sample ID: 480-46536-1 Date Sampled: 09/25/2013 1410
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30540.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1629			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1629				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	107		71 - 126

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-3 GW 09252013**

Lab Sample ID: 480-46536-2 Date Sampled: 09/25/2013 1420
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30541.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1650			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1650				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	10		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-3 GW 09252013**

Lab Sample ID: 480-46536-2 Date Sampled: 09/25/2013 1420
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30541.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1650			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1650				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	109		71 - 126

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-4 GW 09252013**

Lab Sample ID: 480-46536-3 Date Sampled: 09/25/2013 1435
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30542.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1712			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1712				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	4.4	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-4 GW 09252013**

Lab Sample ID: 480-46536-3 Date Sampled: 09/25/2013 1435
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30542.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1712			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1712				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	110		71 - 126

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-5 GW 09252013**

Lab Sample ID: 480-46536-4 Date Sampled: 09/25/2013 1445
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30543.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1734			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1734				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	35		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-5 GW 09252013**

Lab Sample ID: 480-46536-4 Date Sampled: 09/25/2013 1445
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30543.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1734			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1734				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	111		71 - 126

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-6 GW 09252013**

Lab Sample ID: 480-46536-5 Date Sampled: 09/25/2013 1500
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30544.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1756			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1756				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	4.1	J	1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	37		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **B-6 GW 09252013**

Lab Sample ID: 480-46536-5 Date Sampled: 09/25/2013 1500
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30544.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1756			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1756				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	110		71 - 126

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-46536-6 Date Sampled: 09/25/2013 0000
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30545.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1818			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1818				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	5.6	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: AECOM, Inc. Job Number: 480-46536-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-46536-6 Date Sampled: 09/25/2013 0000
Client Matrix: Water Date Received: 09/25/2013 1615

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-141221	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30545.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/26/2013 1818			Final Weight/Volume:	5 mL
Prep Date:	09/26/2013 1818				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	110		71 - 126

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: TAMARA RABY	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-39863-10380.1
Client Contact: Mr. Dino Zack	Phone: 716 836 4506	E-Mail: brian.fischer@testamericainc.com		Page: Page 1 of 1
Company: AECOM, Inc.				Job #:
Address: 100 Corporate Parkway Suite 341	Due Date Requested:			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14226				
Phone:	PO #: Purchase Order not required			
Email: dino.zack@aecom.com	WO #:			
Project Name: Tyco Int'l Facility - BCP (AECOM# 601559	Project #: 48008494			
Site: Scott Aviation	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
Preservation Code:							A		
B-2 GW 0925 2013	9/25/13	1410	G	Water			A 2 vials		
B-3 GW 09252013		1420	G	Water			A 3 vials		
B-4 GW 09252013		1435	G	Water			A 3 vials		
B-5 GW 09252013		1445	G	Water			A 3 vials		
B-6 GW 09252013		1500	G	Water			A 1 vial		
TRIP BLANK		NA	—	WATER			A 2 vials		

3 DAY TAT

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 3 DAY TAT

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tamara Raby	9/25/13 1615			9/25/13 1615	TA BUFFALO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #2 3.5

09/30/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 480-46536-1

Login Number: 46536

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	N/A	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	