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April 30, 2012

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

Subject: Former Scott Aviation Facility Area 1 BCP
Erie County, Lancaster, New York
NYSDEC Site Code No. C915233
Revised Supplemental Remedial Investigation Report

Dear Mr. May,

On behalf of Tyco Fire Protection (Tyco), AECOM Technical Services, Inc. (AECOM) is pleased to provide you with this revised letter-report presenting data collected during several iterations of the Supplemental Remedial Investigation (SRI) for the Former Scott Aviation Facility Area 1 BCP (Site) in Lancaster, New York. In addition to presenting data collected during the SRI, this revised SRI report also re-evaluates the qualitative human health exposure assessment (Remedial Investigation Report (RIR) Section 7.0), the fish and wildlife impact analysis (RIR Section 8), the nature and extent of contamination (RIR, Section 9.1), and the environmental media to be addressed in the Alternatives of Analysis report (AAR).

The SRI was completed as directed by the New York State Department of Environmental Conservation (NYSDEC) December 7, 2010 letter to Tyco (re: NYSDEC review of the Draft Remedial Investigation Report dated October 29, 2010) and the NYSDEC April 14, 2011 letter (re: NYSDEC review of the Revised Remedial Investigation Report dated January 2011). The SRI report does not include an additional round of soil vapor intrusion sampling (refer to Tyco's January 14, 2011 response to comments).

The SRI was conducted in accordance with AECOM's Remedial Investigation/Alternatives Analysis (RI/AA) Work Plan dated February 2010 and the letter Addendum to the RI/AA Work Plan dated May 13, 2010; both documents were approved by NYSDEC on May 14, 2010. This letter-report presents the data collected during the SRI as well as incorporates existing chemical data collected in August 2010, as a part of the Remedial Investigation (RI). Data from the SRI and August 2010 RI are presented on the attached tables and figures.

Field Activities

On March 28, 2011, Quality Inspection Services, Inc. (QISI), under AECOM's supervision, installed two shallow overburden monitoring wells (MW-42S and MW-43S) on the south side of Plant 1 (refer to **Figure 1** for well locations and **Appendix A** for boring logs and monitoring well construction logs). Development of the monitoring wells began on March 30, 2011 and was completed on April 1, 2011 (refer to **Appendix B** for monitoring well development logs). A complete round of

groundwater elevations was collected from all BCP wells on April 7, 2011 (refer to **Table 1** for a summary of groundwater elevations, **Table 2** for well construction information, and **Figure 2** for shallow overburden groundwater surface elevation contours). Groundwater samples were collected from MW-42S and MW-43S on April 7, 2011 and analyzed for VOCs (refer to **Appendix C** for groundwater sampling logs, **Appendix D** for Data Usability Summary Reports (DUSRs), and **Table 3** for a summary of analytical data).

Analytical results indicated that a number of VOCs in the groundwater sample collected from MW-42S were present at concentrations exceeding the NYSDEC groundwater standards, and from MW-43S were present at concentrations just exceeding the NYSDEC standards. Due to the fairly low concentrations detected in the groundwater sample collected from MW-43S and the close proximity to AVOX Plant 1, additional delineation of MW-43S to the north was not considered practical.

Following receipt of groundwater data from MW-42S, AECOM and QISI mobilized back to the site to install an additional well (MW-44S) approximately 50 feet south of MW-42S. The purpose for installing monitoring well MW-44S was to delineate the southern extent of elevated VOC groundwater concentrations identified at monitoring well MW-42S (refer to **Figure 1** for well location and **Appendix A** for the boring log and monitoring well construction log). Note MW-30, located approximately 50 feet east of MW-42S, defines the eastern limit of the VOC plume. Development of the monitoring well was performed on May 24, 2011 (refer to **Appendix B** for the monitoring well development log). A second round of groundwater elevations was collected from all BCP wells on June 1, 2011 (refer to **Table 1** for a summary of groundwater elevations and **Figure 3** for associated shallow overburden groundwater surface elevation contours). A groundwater sample was collected from MW-44S on June 1, 2011 and analyzed for VOCs (refer to **Appendix C** for the groundwater sampling log, **Appendix D** for the DUSR, and **Table 3** for a summary of the analytical data). **Figure 4** and **Figure 5** depict Trichloroethene (TCE) and total VOC shallow overburden contaminant plumes, respectively. Note MW-44S was non-detect for VOCs and defines the southern limit of the VOC plume.

On May 19, 2011, following receipt of NYSDEC's April 14, 2011 comment letter on the revised RI report, AECOM mobilized to the Site with QISI and installed a temporary piezometer (TP-5) in the storm sewer bedding north of TP-2 and adjacent to CB-1 (refer to **Figure 1**). A groundwater grab sample for VOC analysis was collected from TP-5, and an aqueous grab sample for VOC analysis was collected from the adjacent catch basin (CB-1). Both TP-5 and CB-1 had VOC results exceeding the NYSDEC guidance standards. Analytical data from TP-5 and CB-1 are summarized in **Tables 4** and **5** with associated DUSR in **Appendix D**.

As a result of elevated VOCs identified in the sample from CB-1, CB-1 was re-sampled and two additional catch basins were sampled (CB-E and CB-W) on June 16, 2011; refer to **Figure 1** for catch basin locations, **Appendix D** for the DUSR, and **Table 5** for a summary of the analytical data. Analytical data from the catch basins were presented to NYSDEC by Tyco on July 11, 2011.

To complete delineation of the VOCs identified in the storm sewer catch basins, AECOM collected aqueous samples from catch basins CB-1 and CB-4 on October 7, 2011 for VOCs analysis. In addition, a grab sample was collected for VOC analysis from the storm sewer outfall that discharges into Spring Creek (OF-1) (refer to **Figure 6** for the location of the sample outfall (OF-01) in relation to CB-1). The results for CB-1 were similar to previous sampling events. CB-4 contained two detected compounds (1,1,1-trichloroethane and trichloroethene), both concentrations below standard or guidance values. Sample OF-1, from the outfall, contained the compounds 1,1,1-trichloroethane and 1,1,2-trichloro-1,2,2-trifluoroethane at significantly lower concentrations than were detected in CB-1. The compounds bromodichloromethane, chloroform, and dibromochloromethane were detected at low concentrations in the outfall but have not been

detected in any of the catch basins during the October 2011 or previous sampling events. It is likely these compounds are not Site related. Refer to **Table 5** for analytical data.

The validated analytical data collected as part of the SRI has been converted to EQulS format and is available to be uploaded to the NYSDEC EQulS site at your direction. **Appendix E** contains the final analytical laboratory report.

AECOM's surveying contractor, TVGA Consultants, Inc., surveyed the new monitoring wells and temporary piezometers on two separate visits to the site. The attached figures represent the surveyed sample locations. In addition, catch basins and associated pipe inverts within the BCP footprint area have previously been surveyed.

Qualitative Human Health Exposure Assessment

This section integrates the data and information obtained during the RI and SRI in order to perform a qualitative assessment of the potential for exposure to Site-related residuals. This assessment was performed by identifying potential sources, migration routes for the COCs (i.e., chemicals identified above respective guidance values as discussed earlier), potential receptors, and potential exposure pathways at, and in the vicinity of the Site. The assessment follows guidelines specified in the "NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation" (NYSDEC, 2010).

Site Characterization

Briefly, the Site is located at 225 Erie Street, Village of Lancaster, Erie County, New York. The BCP boundary comprises approximately 1 acre and is bounded on the north by the AVOX guest parking lot followed by Erie Street, to the east by the adjoining AVOX Plant 1 followed by residential property, to the west by commercial and industrial properties, and to the south by Norfolk Southern Corporation railroad tracks followed by the village municipal compost and an elementary school. The nearest water body is Spring Creek, a tributary of Plum Bottom Creek which runs westward via underground culvert through the AVOX property north of Erie Street and daylight at the corner of Erie Street and Court Street.

General Site Use

Much of the Site consists of grassy areas with some wooded and brushy areas. There are four small buildings on the Site including a metal building, a shed, a block building, and a paint storage shed. A water tower is also located on the Site. The Site is located to the south and adjacent to an asphalt parking lot and north of railroad tracks. Much of the eastern perimeter of the Site is adjacent to the AVOX Plant 1 building. The adjoining AVOX plants are currently used as a manufacturing, development, testing, and distribution facility for aircraft and military supplied-air systems. At this time, there are no plans to change the facility's use.

Exposure assessment

Exposure is the process by which humans come into contact with chemicals in their environment. Humans can be exposed to chemicals in a variety of environmental media including surface soil, subsurface soil, sediments, groundwater, and air. Exposure to these media can occur through several routes including ingestion, dermal contact, and inhalation. The exposure assessment identifies pathways by which humans are potentially exposed to the constituents identified in the Site RI and SRI reports. The assessment includes the following:

- Development of a conceptual Site model;
- Discussion of potential sources;
- Evaluation of data using health-based screening criteria;
- Discussion of potential release mechanisms; and,
- Identification of potential human receptors and receptor-specific exposure pathways.

Although the potential for exposure to residuals at the Site includes an evaluation of the potential for exposure to COCs via drinking impacted Site groundwater, according to information provided by the Village and Town of Lancaster, all residential and commercial properties in the Village and Town obtain drinking water from municipal sources. Other than an evaluation of potential incidental ingestion of impacted groundwater during subsurface construction activities, this pathway is not further discussed in this exposure assessment. The management of groundwater impacted by Site-related residuals will be addressed in the AAR.

Conceptual Site Model

Figure 7 presents the conceptual model for the investigation area. Included on the figure is information regarding the known or potential sources of COC, the identified release mechanisms, and the affected source media. The potential migration pathways, the potential exposure media, and the potential exposure routes are identified. Note that the exposure routes are considered potential unless there is an ongoing or documented exposure. Information regarding the potential receptors identified in each area is presented in **Table 6**.

Potential Sources of Contaminants of Concern

The sources of environmental impact for the investigation area are residual materials associated with the former Scott Aviation Facility operations. In the BCP property, known as Area 1, low levels of VOCs, SVOCs, pesticides, PCBs, and metals were observed in the surface and subsurface soil at several boring locations. No VOC, pesticide, PCB, or metals were detected above the applicable standards in the soil of Area 1. Benzo(a)pyrene was present in three surface soil samples at concentrations slightly greater than the Industrial SCO.

Constituent	6 NYCRR Part 375-6.8(b): Industrial RSCO (mg/kg)	Max. Detected Conc. (mg/kg)	Sample	Location
Benzo(a)pyrene	1.1	3.7 J	SS-MW-41B2-0-0.2	On-site at well MW-41B

Benzo-a-pyrene is a typical byproduct of combustion and the low levels observed during this sampling are typical of urban background (note active railroad tracks are adjacent to Area 1). Therefore, benzo(a)pyrene in soil is not considered a COC.

Several groundwater samples contained concentrations of VOCs in excess of groundwater standards or guidance levels. Few SVOCs were detected and only in low levels, less than the groundwater standard or guidance values. Iron, magnesium, and sodium were detected at

concentrations greater than the groundwater standards but are not considered COCs as these compounds are often found naturally. No PCBs were detected and only one pesticide was tentatively detected in one groundwater sample at a concentration greater than the standards.

The maximum detected concentrations of groundwater VOCs in exceedance of the NYSDEC Groundwater Standard or Guidance are as follows:

Constituent	NYSDEC Groundwater Standard (s) or Guidance (g) Value (μ/L)	Max. Detected Conc. (μ/L)	Sample	Date of Max. Detection	Location
Benzene	1 s	34 J	A1-GP13-S	8/3/2010	Within Plant 1 perimeter fence
Toluene	5 s	1,500	A1-GP01-S	6/22/10	Adjacent to IRM
Ethylbenzene	5 s	270	MW-38D	6/22/10	West of IRM
Xylenes (total)	5 s	2,000	A1-GP13-S	8/3/10	Within Plant 1 perimeter fence
1,1,1-Trichloroethane	5 s	84,000	A1-GP10-S	8/3/10	Within Plant 1 perimeter fence
1,1,2-Trichloro-1,2,2-trifluoroethane	5 s	4,400	A1-GP01-S	6/22/10	Adjacent to IRM
1,1,2-Trichloroethane	1 s	240 J	MW-42S	4/7/11	Adjacent to IRM
1,1-Dichloroethane	5 s	48,000	A1-GP10-S	8/3/10	Within Plant 1 perimeter fence
1,1-Dichloroethene	5 s	6,100	MW-42S	4/7/11	Within Plant 1 perimeter fence
1,2-Dichloroethane	0.6 s	77	A1-GP10-S	6/21/10	Within Plant 1 perimeter fence
2-Butanone	50 g	510 J	MW-42S	4/7/11	West of IRM
Acetone	50 g	400	MW-42S	4/7/11	Adjacent to IRM

Constituent	NYSDEC Groundwater Standard (s) or Guidance	Max. Detected Conc. (μ/L)	Sample	Date of Max. Detection	Location
Chloroethane	5 s	180	A1-GP13-S	8/3/10	Within Plant 1 perimeter fence
cis-1,2-Dichloroethene	5 s	22,000	A1-GP01-S	6/22/10	Adjacent to IRM
Dichlorodifluoromethane	5 s	33 J	A1-GP06-S	8/4/10	North of IRM
Methylene chloride	5 s	17	A1-GP10-S	6/21/10	Within Plant 1 perimeter fence
Tetrachloroethene	5 s	230 J	MW-38D	6/22/10	West of IRM
trans-1,2- Dichloroethene	5 s	190 J	A1-GP02-S	8/4/10	West of IRM
Trichloroethene	5 s	20,000	A1-GP02-S	8/4/10	West of IRM
Vinyl chloride	2 s	2,200	A1-GP13-S	8/3/10	Within Plant 1 perimeter fence

Observed contamination in Area 1 appears to mainly exist in the groundwater as VOCs. Acetone, 2-Butanone, and methylene chloride are common laboratory contaminants and therefore not considered COCs. The remaining BTEX compounds and chlorinated VOCs in groundwater are considered to be COCs for this site.

Constituent	USEPA Region 5 Ecological Screening Level (μ/L)	Max. Detected Conc. (μ/L)	Sample	Date of Max. Detection	Location
1,1,1- Trichloroethane	76	420	CB-1-06/01/2011	6/1/11	Catch Basin 1
1,1- Dichloroethane	47	110	CB-E-06/16/2011	6/16/11	Catch Basin east of north- south site perimeter fence

1,1-Dichloroethene	65	93	CB-E-06/16/2011	6/16/11	Catch Basin east of north-south site perimeter fence
Trichloroethene	47	60	CB-E-06/16/2011	6/16/11	Catch Basin east of north-south site perimeter fence

Catch basins were also sampled for VOCs as a part of the SRI though it appears that they are likely influenced by groundwater as the groundwater elevation is high throughout the Site. Any compounds detected in the catch basins were also detected in the groundwater. In addition, only two compounds (1,1,1-trichloroethane and 1,1,2-trichloro-1,2,2-trifluoroethane) were detected in the outfall to the tributary that had been detected in the catch basins. These compounds were detected at concentrations significantly lower than were detected in the Site catch basins and below regulatory limits. Additional compounds detected in the outfall are likely from other area properties. Because all detected compounds in the outfall were below regulatory values, off-site receptors are not discussed.

Potential Release Mechanisms

As shown on **Figure 7**, there are several potential release mechanisms by which the constituents identified in the soil and groundwater may be transported to other media. Each mechanism is considered for the identified media and potential receptor group. Potential release mechanisms for soil include the following:

- **Fugitive Dust.** Constituents in subsurface soil could be present in fugitive dust which is released via physical disturbance;
- **Volatilization.** Volatile constituents may potentially be transported from subsurface soil by volatilizing into soil-pore space and eventually emanate into ambient or indoor air; and
- **Leaching.** Constituents in surface or subsurface soil could potentially leach to groundwater.

There are three mechanisms by which constituents in groundwater can be transported to other media. These migration pathways include the following:

- **Adsorption.** Constituents in groundwater may be sorbed onto subsurface soils;
- **Volatilization to Ambient Air.** Volatile constituents in groundwater may potentially desorb into soil gas and be transported into ambient or indoor air; and
- **Extraction.** Constituents in groundwater may migrate to other media by extraction and use of impacted groundwater. Note that, as indicated above, groundwater is not used at the Site and potable water in the Village is obtained from municipal sources.

Each of these potential release mechanisms is evaluated for each potential receptor group in **Table 6**.

Potential Human Receptors and Exposure Pathways

An assessment of potential exposure pathways for receptors at the Site is presented in **Table 6**. The analysis includes an identification of each potential receptor group, a listing of each potential exposure media and potential exposure pathway, and a rationale for inclusion or exclusion of each potential receptor in the consideration of remedial actions for the AAR. Potential receptor groups and potential exposure pathways that may exist for this area are discussed below.

On-site workers at AVOX Plant 1

Results from SVI sampling indicate that soil vapor intrusion is not a current concern in AVOX Plant 1. In addition, workers also do not normally carry out duties in BCP Area 1. As such, the potential for exposure from any media to on-site workers in this area is considered to be low.

Outdoor maintenance workers

Outdoor Maintenance Workers may potentially be exposed to COCs in surface and subsurface soil and groundwater via direct contact pathways (i.e., incidental ingestion, dermal contact, and inhalation of volatiles or particulates) while performing heavy maintenance activities such as subsurface excavations. Since typical outdoor maintenance activities do not involve subsurface excavations and the bulk of COCs were observed in the groundwater, the potential for exposure is considered to be low.

Outdoor subsurface utility workers

Outdoor Subsurface Utility Workers may potentially be exposed to COCs in subsurface soil and groundwater via incidental ingestion, dermal contact, and inhalation of volatiles or particulates if subsurface excavation work is needed to install or repair underground utility lines or equipment in the Site. Only properly trained field personnel should complete subsurface utility or repair work in these impacted areas using methods specified in a Site-specific HASP until the areas have been cleared of impacted materials. Potential remedial actions to manage the impacted media in these areas will be discussed in the AAR.

Trespassers and visitors

Since significant impacts were not observed in surface soils, the potential for exposure is considered to be low.

Human Health Risk Assessment Conclusions

Workers and visitors to the Site are unlikely to contact soil vapor, soil, or groundwater impacted with former Scott Aviation operations-related residuals and the potential for exposure for these possible receptor groups is considered to be low.

For a Subsurface Utility or Construction Worker who may perform excavation work on the Site, the worker may potentially be exposed to impacted soil, soil vapor, and/or groundwater. Therefore, subsurface work should only be performed by properly trained personnel, using methods specified in a HASP, or only after the area has been cleared of impacted media.

Fish and Wildlife Impact Analysis

As part of this SRI, AECOM reviewed the Fish and Wildlife Impact Analysis (FWIA) provided in Appendix K of the RIR. The FWIA was completed in accordance with the NYSDEC guidance document entitled "*Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites*" dated October 1994.

The objectives of the FWIA were the following:

- Identify the fish and wildlife resources that presently exist and that may have existed before contaminant introduction;
- Provide information necessary for the remedial design;
- Determine the impacts of Site-related contaminants on fish and wildlife resources; and
- Evaluate the effects of the remedial alternatives on the productivity and diversity of fish and wild resources.

During the FWIA it was determined that the small, isolated vegetated areas on site provide limited habitat for wildlife. The Site is also surrounded by developments (e.g., rail line, industrial and residential properties, roads, etc.). Within a 0.5-mile radius of the site there are some large vegetated tracts. However, due to the level of development that separates the Site from these tracts, it is unlikely that organisms that inhabit these large vegetated tracts transit to the Site to utilize the limited vegetated areas.

The contamination on site is largely limited to a small confined area below the ground surface and the Site geology inhibits offsite migration of these contaminants. Moreover, the vegetated areas on site show no stress due to the contaminants.

The flat topography of the site prohibits off site migration of contaminants from sheet flow. However, storm sewers on site convey stormwater runoff to Spring Creek, a tributary of the Plum Bottom Creek located over 750 feet from the site. Sampling in October 2011 determined that significant dilution occurs during conveyance. **Table 5** identifies the contaminants measured at on-site catch basins and at the outfall to Spring Creek. As can be seen in **Table 5**, the contaminants at the outfall are significantly reduced and far below screening criteria. Also of note is that some contaminants, bromodichloromethane, chloroform, and dibromochloromethane, were measured at higher levels at the outfall than the catch basin samples, which suggests that other properties in the area are contributing contaminants to the tributaries (refer to **Figure 6**).

It appears that the contamination largely remains on site. As such, standard soil erosion control and storm water management measures during future remediation activities should prohibit any offsite migration of contaminants.

Nature and Extent of Contamination

Based on the results of the RI, SRI and the Qualitative Human Health Exposure Assessment, the following conclusions were made:

1. No fill was observed in the RI borings. Previously identified fill was excavated during the IRM. Overburden soils were comprised of fine-grained soil, specifically silts and clays. Borehole refusal within the overburden was approximately 21 ft bgs.

2. VOC concentrations for surface soil (i.e., 0 to 2 inches bgs) were below detection limits. SVOC, metals, pesticide, and PCB concentrations were below the SCO for industrial use with the exceptions of benzo(a)pyrene (potentially resulting from the adjacent active rail line).
3. VOC concentrations for subsurface soil were below the SCO for protection of groundwater with the exception of acetone and methylene chloride (common laboratory contaminants). SVOC, metals, pesticide and PCB concentrations in subsurface soil were below the SCO for industrial use and, in most cases, below the SCO for protection of groundwater.
4. Groundwater was present within the monitoring wells that were installed within the shallow overburden, deep overburden, and bedrock. The depth to groundwater varied from 3 to 6 ft bgs in the shallow overburden, from 5 to 7 ft bgs in the deep overburden, and from 9 to 10 ft bgs in the bedrock. Water level data indicates that the groundwater flow direction in the overburden is to the northwest; although this is not as pronounced in the shallow overburden. Only one bedrock well is present on Site so no groundwater flow direction can be inferred in the bedrock at the Site.
5. Analytical data for groundwater samples collected from the shallow and deep overburden identifies the presence of VOCs exceeding NYSDEC TOGs 1.1 protection of drinking water standards. There are no exceedances of NYSDEC TOGs protection of drinking water standards in the bedrock groundwater. The most frequently detected VOCs were TCE and cis-1,2-Dichloroethene. The greatest VOC concentrations were detected in the area of the previously-excavated source area IRM at A1-GP01, A1-GP02, A1-GP03, A1-GP04, A1-GP10, and MW-38D.
6. VOCs were either not detected or were detected at concentrations below or slightly above the NYSDEC TOGs 1.1 protection of drinking water standards for TCE at perimeter wells. The delineation of TCE is complete to the north, south, east and west (to northeast corner of building) of the historic source area (note TCE was detected above the NYSDEC TOGs 1.1 protection of drinking water standards at A1-GP13 and MW-36S during one of two groundwater sampling events performed during the RI).
7. VOCs detected within catch basins were also found in the Site groundwater. Because groundwater is shallower than the storm sewer piping, contaminants from the groundwater are likely infiltrating the storm sewer piping and bedding material (cross sections provided in the AAR will show groundwater elevation with respect to the invert of the storm sewer piping). Compounds detected in the outfall were either at significantly lower concentrations than those detected in the catch basin samples or were compounds not found in site catch basins. Therefore, it is likely that other properties in the area are contributing contaminants to the tributaries. In addition, no compounds were detected in the outfall sample at concentrations greater than NYSDEC Surface Water Standard/Guidance values or USEPA Region 5 Ecological Screening Levels (see **Table 5**).
8. Constituents of Potential Concern (COPCs) were identified for soil by comparison of maximum detected concentrations for VOCs to 6 NYCRR Part 375 restricted use for protection of groundwater and for SVOCs, metals, pesticides, and PCBs to restricted use for industrial, and groundwater. COPCs were identified for groundwater by comparison of maximum detected concentrations for VOCs, SVOCs, metals, pesticides, and PCBs to NYSDEC TOGs 1.1 protection of drinking water standards.

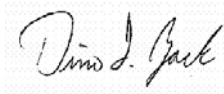
9. Based on the evaluation of the data against the decision matrices, a vapor intrusion condition is not present at the site and indoor air quality has not been adversely impacted by the presence of the adjacent groundwater plume.
10. The qualitative exposure assessment identified the potential for human exposure to soil through dermal contact, incidental ingestion, and inhalation of particulate and vapors, and groundwater through dermal contact, incidental ingestion, and inhalation of vapors. The potentially exposed on-site receptors include workers (plant workers and construction/utility workers) and persons that may trespass onto the site. Potential human exposure can be addressed using remedial or other methods to eliminate exposure pathways and/or provide worker protection.
11. During the FWIA it was determined that the small, isolated vegetated areas on site provide limited habitat for wildlife. The Site is surrounded by developments (e.g., rail line, industrial and residential properties, roads, etc.) and the vegetated areas on site show no stress due to the contaminants.

Media to be Addressed in AAR

Analytical data collected during the RI and SRI will be incorporated into the AAR. Groundwater (including groundwater in storm sewer piping and pipe bedding), soil vapor, and subsurface soil affected by Site residuals will be addressed in the AAR.

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.
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Encl: Tables 1-6
Figures 1-7
Appendix A-D
CD containing draft SRI report (including Appendix E – Laboratory Data)

Cc: Mr. Gregory Sutton (NYSDEC) – electronic version
Ms. Deanna Ripstein (NYSDOH) – electronic version
Mr. John Perkins (Tyco Fire Protection) – electronic version
Mr. Eric Frauen (O&M, Inc.) – electronic version
Mr. Robert Biondo (AVOX Systems Inc.) – electronic version
AECOM Project File – electronic version

TABLES

Table 1

**Groundwater Elevation Data
Brownfield Cleanup Program
Supplemental Remedial Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York**

Monitoring Point Identification	Top of Casing Elevation	June 16, 2010		August 2, 2010		October 21, 2010		April 7, 2011		June 1, 2011	
		Depth to Groundwater (feet from TOC)	Groundwater Elevation (feet AMSL)	Depth to Groundwater (feet from TOC)	Groundwater Elevation (feet AMSL)	Depth to Groundwater (feet from TOC)	Groundwater Elevation (feet AMSL)	Depth to Groundwater (feet from TOC)	Groundwater Elevation (feet AMSL)	Depth to Groundwater (feet from TOC)	Groundwater Elevation (feet AMSL)
Monitoring Wells											
MW-30 ¹	689.69	2.92	686.77	3.71	685.98	NA	NA	NA	NA	NA	NA
MW-35S	688.56	1.84	686.72	5.70	682.86	10.23	678.33	0.40	688.16	0.60	687.96
MW-35D	688.40	8.00	680.40	7.77	680.63	9.17	679.23	9.85	678.55	5.08	683.32
MW-36S	689.82	3.00	686.82	5.25	684.57	4.99	684.83	2.83	686.99	3.01	686.81
MW-36D	689.66	5.30	684.36	6.08	683.58	7.35	682.31	5.83	683.83	4.65	685.01
MW-37S	690.10	3.50	686.60	5.25	684.85	6.16	683.94	2.86	687.24	3.21	686.89
MW-37D	690.05	4.20	685.85	5.30	684.75	6.35	683.70	4.31	685.74	3.80	686.25
MW-38D	689.66	5.70	683.96	6.28	683.38	7.46	682.20	6.00	683.66	4.81	684.85
MW-39D	689.72	3.85	685.87	4.94	684.78	6.05	683.67	3.98	685.74	3.50	686.22
MW-40D	689.19	3.33	685.86	4.34	684.85	5.26	683.93	3.38	685.81	2.84	686.35
MW-41B	689.78	9.20	680.58	9.50	684.85	10.28	683.93	9.63	680.15	6.96	682.82
MW-42S	689.08	NA	NA	NA	NA	NA	NA	10.90	678.18	1.15	687.93
MW-43S	689.13	NA	NA	NA	NA	NA	NA	2.60	686.53	2.65	686.48
MW-44S	688.96	NA	NA	NA	NA	NA	NA	NA	NA	4.15	684.81
Piezometers											
A1-GP01-S	689.96	NA	NA	5.55	684.41	6.20	683.76	1.95	688.01	2.98	686.98
A1-GP02-S	689.82	3.05	686.77	5.30	684.52	5.50	684.32	3.20	686.62	3.53	686.29
A1-GP03-S	690.70	4.38	686.32	6.54	684.16	7.59	683.11	4.78	685.92	5.10	685.60
A1-GP04-S	690.46	3.61	686.85	6.12	684.34	8.80	681.66	3.80	686.66	3.80	686.66
A1-GP05-S	690.38	4.80	685.58	6.36	684.02	7.40	682.98	4.55	685.83	4.75	685.63
A1-GP06-S	687.71	3.40	684.31	3.20	684.51	3.92	683.79	2.23	685.48	2.10	685.61
A1-GP07-S	690.47	3.70	686.77	6.20	684.27	6.86	683.61	3.95	686.52	4.20	686.27
A1-GP08-S	689.68	2.75	686.93	5.04	684.64	5.80	683.88	2.70	686.98	2.87	686.81
A1-GP09-S	689.36	2.45	686.91	5.80	683.56	7.80	681.56	2.37	686.99	2.55	686.81
A1-GP10-S	689.10	1.27	687.83	3.92	685.18	2.40	686.70	2.03	687.07	2.55	686.55
A1-GP11-S	689.34	4.04	685.30	4.50	684.84	4.70	684.64	4.25	685.09	4.10	685.24
A1-GP12-S	689.5	2.28	687.22	2.98	686.52	3.32	686.18	2.77	686.73	2.78	686.72
A1-GP13-S	689.69	1.34	688.35	3.55	686.14	4.56	685.13	3.25	686.44	3.10	686.59
A1-GP14-S	689.43	1.50	687.93	3.04	686.39	2.20	687.23	1.75	687.68	2.60	686.83
A1-GP15-S	687.69	0.54	687.15	4.40	683.29	7.64	680.05	0.10	687.59	1.20	686.49
A1-GP16-S	689.86	3.00	686.86	5.21	684.65	5.80	684.06	2.89	686.97	3.00	686.86
A1-GP17-S	690.11	3.16	686.95	6.40	683.71	5.82	684.29	3.12	686.99	3.28	686.83
A1-GP18-S	690.37	6.90	683.47	5.25	685.12	5.25	685.12	3.90	686.47	3.70	686.67

Notes:

1. Well is screened across both shallow and deep overburden units.

TOC - Top of Casing

AMSL - Above Mean Sea Level

NA - Not Available

S - well is screened in shallow overburden

D - well is screened in deep overburden

B - well is screened in bedrock

Table 2

**Monitoring Well and Piezometer Installation Details
Brownfield Cleanup Program
Supplemental Remedial Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York**

Location ID	Investigative Phase	Date Completed	Screen Interval (ft bgs)
MW-30	ESI Phase II	7/7/2005	10 - 20
A1-GP01S	PGA Phase I	2/27/2006	5 - 15
A1-GP02S		2/27/2006	5 - 15
A1-GP03S		2/27/2006	5 - 15
A1-GP04S		2/27/2006	5 - 15
A1-GP05S		2/27/2006	5 - 15
A1-GP06S		2/27/2006	5 - 15
A1-GP07S	PGA Phase II	5/16/2006	5 - 15
A1-GP08S		5/16/2006	5 - 15
A1-GP09S		5/16/2006	5 - 15
A1-GP10S		5/16/2006	5 - 15
A1-GP11S		5/15/2006	5 - 15
A1-GP12S ¹		5/16/2006	5 - 15
A1-GP13S	PGA Phase III	5/22/2007	5 - 15
A1-GP14S		5/22/2007	5 - 15
A1-GP15S		5/23/2007	5 - 15
A1-GP16S		5/23/2007	5 - 15
A1-GP17S		5/23/2007	5 - 15
A1-GP18S		5/24/2007	5 - 15
A1-GP12S ²	RI	5/27/2010	5 - 15
MW-35S		5/26/2010	5 - 15
MW-35D		5/26/2010	21 - 26
MW-36S		6/4/2010	5 - 15
MW-36D		6/4/2010	16 - 21
MW-37S		5/28/2010	4.5 - 14.5
MW-37D		5/28/2010	15 - 20
MW-38D		6/3/2010	16 - 21
MW-39D		6/3/2010	15 - 20
MW-40D		6/2/2010	17.8 - 22.8
MW-40B		6/1/2010	24.8 - 34.8
TP-1		6/24/2010	2.9 - 5.4
TP-2		6/24/2010	1.5 - 4
TP-3		6/24/2010	1.4 - 3.9
TP-4	6/24/2010	1 - 3.5	
MW-42S	SRI	3/28/2011	5 - 15
MW-43S		3/28/2011	5 - 15
MW-44S		5/19/2011	6 - 15
TP-5		5/19/2011	1 - 6

Notes:

1. This well was damaged and subsequently replaced during the RI field activities.
2. This well is a replacement well for the well with the same identification that was installed during Phase II of the PGA.

ft bgs - feet below ground surface

ESI - Environmental Site Investigation

PGA - Preliminary Groundwater Assessment

RI - Remedial Investigation

SRI - Supplemental Remedial Investigation

Table 4

**Groundwater VOC Results in Temporary Piezometers
Brownfield Cleanup Program
Supplemental Remedial Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York**

Sample Designation Laboratory Identification Date Sampled	CAS Number	NYSDEC Groundwater Guidance or Standard Value ¹	June 2010				August 2010	June 2011
			TP-1	TP-2	TP-3	TP-4	TP-2	TP-5-06/01/2011
			RTF1140-12 6/17/2010	RTF1140-13 6/17/2010	RTF1140-10 6/17/2010	RTF1140-11 6/17/2010	RTH0402-12 8/2/2010	480-5581-1 6/1/2011
BTEX Compounds (ug/L)								
Benzene	71-43-2	1 s	5 U	5 U	25 U	25 U	25 U	0.41 U
Toluene	100-41-4	5 s	5 U	5 U	25 U	25 U	25 U	0.51 U
Ethylbenzene	108-88-3	5 s	5 U	5 U	25 U	25 U	25 U	0.74 U
Xylenes (total)	1330-20-7	5 s	15 U	15 U	25 U	25 U	75 U	0.66 U
Total BTEX Compounds (ug/L)	NA	NL	---	---	---	---	---	---
Other VOCs (ug/L)								
1,1,1-Trichloroethane	71-55-6	5 s	63	74	25 U	25 U	230	83
1,1,2,2-Tetrachloroethane	79-34-5	5 s	5 U	5 U	25 U	25 U	25 U	0.21 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5 s	240	290	25 U	25 U	1200	60 J
1,1,2-Trichloroethane	79-00-5	1 s	5 U	5 U	25 U	25 U	25 U	0.23 U
1,1-Dichloroethane	75-34-3	5 s	1.4 J	0.64 J	25 U	25 U	25 U	12
1,1-Dichloroethene	75-35-4	5 s	4.8 J	5.7	25 U	25 U	20 J	7.2
1,2,4-Trichlorobenzene	120-82-1	5 s	5 U	5 U	25 U	25 U	25 U	0.41 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04 s	5 U	5 U	25 U	25 U	25 U	0.39 U
1,2-Dibromoethane	106-93-4	0.0006 s	5 U	5 U	25 U	25 U	25 U	0.73 U
1,2-Dichlorobenzene	95-50-1	3 s	5 U	5 U	25 U	25 U	25 U	0.79 U
1,2-Dichloroethane	107-06-2	0.6 s	5 U	5 U	25 U	25 U	25 U	0.21 U
1,2-Dichloropropane	78-87-5	1 s	5 U	5 U	25 U	25 U	25 U	0.72 U
1,3-Dichlorobenzene	541-73-1	3 s	5 U	5 U	25 U	25 U	25 U	0.78 U
1,4-Dichlorobenzene	106-46-7	3 s	5 U	5 U	25 U	25 U	25 U	0.84 U
2-Butanone	78-93-3	50 g	25 U	25 U	120 U	120 U	120 U	1.3 U
2-Hexanone	591-78-6	50 g	25 U	25 U	120 U	120 U	120 U	1.2 U
4-Methyl-2-pentanone	108-10-1	NL	25 U	25 U	120 U	120 U	120 U	2.1 U
Acetone	67-64-1	50 g	9 J	6.4 J	120 U	120 U	120 U	3 U
Bromodichloromethane	75-27-4	50 g	5 U	5 U	25 U	25 U	25 U	0.39 U
Bromoform	75-25-2	50 g	5 U	5 U	25 U	25 U	25 U	0.26 U
Bromomethane	74-83-9	5 s	5 U	5 U	25 U	25 U	25 U	0.69 U
Carbon disulfide	75-15-0	60 g	0.8 J	5 U	25 U	25 U	25 U	0.19 U
Carbon tetrachloride	56-23-5	5 s	5 U	5 U	25 U	25 U	25 U	0.27 U
Chlorobenzene	108-90-7	5 s	5 U	5 U	25 U	25 U	25 U	0.75 U
Chloroethane	75-00-3	5 s	5 U	5 U	25 U	25 U	25 U	0.32 U
Chloroform	67-66-3	7 s	5 U	5 U	25 U	25 U	25 U	0.34 U
Chloromethane	74-87-3	5 s	5 U	5 U	25 U	25 U	25 U	0.35 U
cis-1,2-Dichloroethene	156-59-2	5 s	3.8 J	0.83 J	25 U	25 U	25 U	23
cis-1,3-Dichloropropene	10061-01-5	0.4 s	5 U	5 U	25 U	25 U	25 U	0.36 U
Cyclohexane	110-82-7	NL	5 U	5 U	25 U	25 U	25 U	0.18 U
Dibromochloromethane	124-48-1	50 g	5 U	5 U	25 U	25 U	25 U	0.32 U
Dichlorodifluoromethane	75-71-8	5 s	5 U	5 U	25 U	25 U	25 U	0.68 U
Isopropylbenzene	98-82-8	5 s	5 U	5 U	25 U	25 U	25 U	0.79 U
Methyl acetate	79-20-9	NL	5 U	5 U	25 U	25 U	25 U	0.5 U
Methyl tert-butyl ether	1634-04-4	10 g	5 U	5 U	25 U	25 U	25 U	0.16 U
Methylcyclohexane	108-87-2	NL	5 U	5 U	25 U	25 U	25 U	0.16 U
Methylene chloride	75-09-2	5 s	5 U	5 U	25 U	25 U	25 U	0.44 U
Styrene	100-42-5	5 s	5 U	5 U	25 U	25 U	25 U	0.73 U
Tetrachloroethene	127-18-4	5 s	5 U	5 U	25 U	25 U	25 U	0.36 U
trans-1,2-Dichloroethene	156-60-5	5 s	5 U	5 U	25 U	25 U	25 U	0.9 U
trans-1,3-Dichloropropene	10061-02-6	0.4 s	5 U	5 U	25 U	25 U	25 U	0.37 U
Trichloroethene	79-01-6	5 s	2.1 J	0.9 J	25 U	25 U	25 U	8.8
Trichlorofluoromethane	75-69-4	5 s	5 U	5 U	25 U	25 U	25 U	0.88 U
Vinyl chloride	75-01-4	2 s	5 U	5 U	25 U	25 U	25 U	1.6
Total VOCs (ug/L)²	NA	NL	325	378	---	---	1450	196

Notes:

1. Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].

2. Total VOCs includes BTEX compounds.

NA = Not analyzed, not applicable

NL = Not listed

U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

Bold value - compound detected at a concentration greater than the reporting limit**Shaded value** - Compound detected in a concentration greater than the groundwater standard value.

s = Standard Value

g = Guidance Value

Table 5

**Surface Water VOC Results in Catch Basin and Outfall
Brownfield Cleanup Program
Supplemental Remedial Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York**

Sample Designation Laboratory Identification Date Sampled	CAS Number	NYSDEC Groundwater Guidance or Standard Value ¹	NYSDEC Surface Water Standard/Guidance Value ¹	USEPA Region 3 Freshwater Screening Benchmarks	USEPA Region 5 Ecological Screening Levels	June 2011				October 2011		
						CB-1-06/01/2011	CB-1-06/16/2011	CB-E-06/16/2011	CB-W-06/16/2011	CB-1-10/07/2011	CB-4-10/07/2011	OF-1-10/07/2011
						480-5581-1	480-6205-1	480-6205-3	480-6205-2	480-10892-1	480-10892-2	480-10892-3
						6/1/2011	6/16/2011	6/16/2011	6/16/2011	10/7/2011	10/7/2011	10/7/2011
BTEX Compounds (ug/L)												
Benzene	71-43-2	1 s	210 g	370	114	0.41 U	0.41 U	0.7 J	2.1 U	1 U	1 U	1 U
Toluene	100-41-4	5 s	100 g	2	253	1.9 U	0.51 U	0.51 U	61 U	1 U	1 U	1 U
Ethylbenzene	108-88-3	5 s	17 g	90	14	0.74 U	0.74 U	0.74 U	3.7 U	1 U	1 U	1 U
Xylenes (total)	1330-20-7	5 s	65 g	13	27	1 J	0.66 U	0.66 U	3.3 U	1 U	1 U	1 U
Total BTEX Compounds (ug/L)	NA	NL	NA	NA	NA	2.9	---	0.7	61	---	---	---
Other VOCs (ug/L)												
1,1,1-Trichloroethane	71-55-6	5 s		11	76	420	120	230	4.1 U	170	1.4	1.2
1,1,2,2-Tetrachloroethane	79-34-5	5 s		610	380	0.21 U	0.21 U	0.21 U	1.1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5 s				400 J	220	140	1.6 U	260	1 U	1.5
1,1,2-Trichloroethane	79-00-5	1 s		1200	500	1.6	0.87 J	10	1.2 U	1.4	1 U	1 U
1,1-Dichloroethane	75-34-3	5 s		47	47	53	18	110	1.9 U	26	1 U	1 U
1,1-Dichloroethene	75-35-4	5 s		25	65	41	14	93	1.5 U	28	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5 s	5 s	24	30	0.41 U	0.41 U	0.41 U	2.1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04 s				0.39 U	0.39 U	0.39 U	2 U	1 U	1 U	1 U
1,2-Dibromoethane	106-93-4	0.0006 s				0.73 U	0.73 U	0.73 U	3.7 U	1 U	1 U	1 U
1,2-Dichlorobenzene	95-50-1	3 s	5 s	0.7	14	0.79 U	0.79 U	0.79 U	4 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	0.6 s		100	910	0.21 U	0.21 U	2	1.1 U	1 U	1 U	1 U
1,2-Dichloropropane	78-87-5	1 s			360	0.72 U	0.72 U	0.72 U	3.6 U	1 U	1 U	1 U
1,3-Dichlorobenzene	541-73-1	3 s	5 s	150	38	0.78 U	0.78 U	0.78 U	3.9 U	1 U	1 U	1 U
1,4-Dichlorobenzene	106-46-7	3 s	5 s	26	9.4	0.84 U	0.84 U	0.84 U	4.2 U	1 U	1 U	1 U
2-Butanone	78-93-3	50 g		14000	2200	1.3 U	1.3 U	1.3 U	6.6 U	10 U	10 U	10 U
2-Hexanone	591-78-6	50 g		99	99	1.2 U	1.2 U	1.2 U	6.2 U	5 U	5 U	5 U
4-Methyl-2-pentanone	108-10-1	NL		170	170	2.1 U	2.1 U	2.1 U	11 U	5 U	5 U	5 U
Acetone	67-64-1	50 g		1500	1700	61	390 J	3 U	15 J	1 U	1 U	1 U
Bromodichloromethane	75-27-4	50 g				0.39 U	0.39 U	0.39 U	2 U	1 U	1 U	5.9
Bromoform	75-25-2	50 g		320	230	0.26 U	0.26 U	0.26 U	1.3 U	1 U	1 U	1 U
Bromomethane	74-83-9	5 s				0.69 U	0.69 U	0.69 U	3.5 U	1 U	1 U	1 U
Carbon disulfide	75-15-0	60 g		0.92	15	0.19 U	0.19 U	0.19 U	0.95 U	1 U	1 U	1 U
Carbon tetrachloride	56-23-5	5 s		13.3	240	0.27 U	0.27 U	0.27 U	1.4 U	1 U	1 U	1 U
Chlorobenzene	108-90-7	5 s	5 s	1.3	47	0.75 U	0.75 U	0.75 U	3.8 U	1 U	1 U	1 U
Chloroethane	75-00-3	5 s				2.8	0.6 J	10	1.6 U	1 U	1 U	1 U
Chloroform	67-66-3	7 s		1.8	140	0.34 U	0.34 U	0.34 U	1.7 U	1 U	1 U	13
Chloromethane	74-87-3	5 s				0.35 U	0.35 U	0.35 U	1.8 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	5 s		590		140	51	1200	4.1 U	52	1 U	1 U
cis-1,3-Dichloropropene	10061-01-5	0.4 s		0.055		0.36 U	0.36 U	0.36 U	1.8 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NL				0.18 U	0.18 U	0.18 U	0.9 U	1 U	1 U	1 U
Dibromochloromethane	124-48-1	50 g		98.1		0.32 U	0.32 U	0.32 U	1.6 U	1 U	1 U	2.6
Dichlorodifluoromethane	75-71-8	5 s				0.68 U	0.68 U	0.68 U	3.4 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5 s	2.6 g	2.6		0.79 U	0.79 U	0.79 U	4 U	1 U	1 U	1 U
Methyl acetate	79-20-9	NL				0.5 U	0.5 U	0.5 U	2.5 U	1 U	1 U	1 U
Methyl tert-butyl ether	1634-04-4	10 g		11070		0.16 U	0.16 U	0.16 U	0.8 U	1 U	1 U	1 U
Methylcyclohexane	108-87-2	NL				0.16 U	0.16 U	0.16 U	0.8 U	1 U	1 U	1 U
Methylene chloride	75-09-2	5 s		98.1	940	0.44 U	0.44 U	1.2	2.2 U	1 U	1 U	1 U
Styrene	100-42-5	5 s		72	32	0.73 U	0.73 U	0.73 U	3.7 U	1 U	1 U	1 U
Tetrachloroethene	127-18-4	5 s		111	45	0.5 J	0.36 U	8.8	1.8 U	0.73 J	1 U	1 U
trans-1,2-Dichloroethene	156-60-5	5 s		970	970	1.8	1.5	4.6	4.5 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	10061-02-6	0.4 s				0.37 U	0.37 U	0.37 U	1.9 U	1 U	1 U	1 U
Trichloroethene	79-01-6	5 s		21	47	59	18	60	2.3 U	22	1.2	1 U
Trichlorofluoromethane	75-69-4	5 s				0.88 U	0.88 U	0.88 U	4.4 U	1 U	1 U	1 U
Vinyl chloride	75-01-4	2 s		930	930	8.4	1.4	22	4.5 U	1 U	1 U	1 U
Total VOCs (ug/L)²	NA	NL				1,192	835	1892	76	560	2.6	24

Notes:

1. Guidance or Standard Values for Fish Propagation - NYSDEC, Division of Water, TOGS (1.1.1) [NYSDEC, 1998, with addenda through 2004].

2. Total VOCs includes BTEX compounds.

NL = No levels.

U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

Bold value = Compound detected at concentration greater than the reporting limit

Shaded value = Compound detected at a concentration greater than the USEPA Region 3 Freshwater Screening Benchmark value.

Shaded value = Compound detected at a concentration greater than the USEPA Region 3 Freshwater Screening Benchmark value, and the USEPA Region 5 Ecological Screening Levels.

Blanks = No guidance or standard value available.

s = Standard Value.

g = Guidance Value.

Table 6
Exposure Pathway Analysis - Potential On-site Receptors
Brownfield Cleanup Program
Supplemental Remedial Site Investigation
Former Scott Aviation Facility Area 1 (BCP Site #C915233)
Lancaster, New York

Receptor	Exposure Medium	Exposure Pathway	Pathway Not Considered Complete	Pathway Considered Potentially Complete, But Not Likely to Result in Exposure	Pathway Potentially Complete and will be Addressed in the AAR for the Site	Rationale for Inclusion or Exclusion
On-site AVOX workers, Outdoor Maintenance Worker or Utility Worker	On-site Surface Soil (0-2 inches)	Ingestion	---	X	---	Outdoor Maintenance and Utility Workers who mow the grass on the site may be exposed to residuals in surface soil or particulates, therefore the exposure pathway is considered potentially complete. Since surface soil concentrations are low, and the work areas are covered with grass and the workers would only be on site for a short time, exposure is not likely.
		Dermal Contact	---	X	---	
		Inhalation of Particulates	---	X	---	
		Inhalation of Volatiles in Ambient Air	---	X	---	
	On-site Subsurface Soil (>2 inches)	Ingestion	X	---	---	Outdoor Maintenance Workers and Utility Workers are not likely to contact subsurface soils during their workday. In addition, subsurface soil was not found to be significantly impacted.
		Dermal Contact	X	---	---	
		Inhalation of Particulates	X	---	---	
		Inhalation of Volatiles in Ambient Air	X	---	---	
	Groundwater	Ingestion	X	---	---	Outdoor Maintenance Workers are not likely to contact groundwater during their workday.
		Dermal contact	X	---	---	
		Inhalation of Volatiles in Ambient Air	X	---	---	
	Surface Water	Ingestion	---	X	---	Outdoor Workers may be exposed to surface water during storm events in the Spring; however, exposure is not likely as it is unlikely that the grass mowing or other maintenance work would be performed where surface water is present. In addition, only a small portion of the Site collects surface water and only in the Spring season, which would serve to limit surface water contact with residuals.
Dermal contact		---	X	---		
On-site Outdoor Subsurface Utility Workers	On-site Surface Soil (0-2 inches)	Ingestion	---	X	---	Outdoor Utility Workers who repair or maintain equipment at the site may be exposed to residuals in surface soil or particulates, therefore the exposure pathway is considered potentially complete. Since most of the site is covered with grass and vegetation, the impacts are covered, and the workers would only be on site for a short time, exposure is not likely.
		Dermal contact	---	X	---	
		Inhalation of Particulates	---	X	---	
		Inhalation of Volatiles in Ambient Air	---	X	---	
	On-site Subsurface Soil (>2 inches)	Ingestion	---	X	---	Outdoor Subsurface Utility Workers may be exposed to impacts in subsurface soil, dust, or VOCs in ambient air while completing excavation work related to on-Site subsurface utilities. However, subsurface soil was not significantly impacted, therefore exposure is not likely.
		Dermal contact	---	X	---	
		Inhalation of Particulates	---	X	---	
		Inhalation of Volatiles in Ambient Air	---	X	---	
	Groundwater	Ingestion	---	---	X	Outdoor Subsurface Utility Workers may be exposed to COCs in groundwater and VOCs in ambient air while completing excavation work in the Site. The pathway will be addressed in the Analysis of Alternatives discussion of potential remedial actions for the site.
		Dermal contact	---	---	X	
		Inhalation of Volatiles in Ambient Air	---	---	X	
	Surface Water	Ingestion	---	X	---	Outdoor Subsurface Utility Workers may be exposed to surface water during storm events in the Spring; however, exposure is not likely as it is unlikely that work would be performed where surface water is present. In addition, only a small portion of the Site collects surface water and only in the Spring season, which would serve to limit surface water contact with COCs.
Dermal contact		---	X	---		
Site Visitor or Trespasser	On-site Surface Soil (0-2 inches)	Ingestion	---	X	---	On-site Visitors and Trespassers may be exposed to residuals in surface soil and VOCs in ambient air while visiting the site; however, the site is covered with grass and vegetation, the Visitors or Trespassers would only be on site for a short time, and part of the Site is fenced in, therefore exposure is not likely.
		Dermal contact	---	X	---	
		Inhalation of Particulates	---	X	---	
		Inhalation of Volatiles in Ambient Air	---	X	---	
	On-site Subsurface Soil (>2 inches)	Ingestion	X	---	---	On-site Visitors or Trespassers would not be exposed to subsurface soil while visiting the site.
		Dermal contact	X	---	---	
		Inhalation of Particulates	X	---	---	
		Inhalation of Volatiles in Ambient Air	X	---	---	
	Groundwater	Ingestion	X	---	---	On-site Visitors or Trespassers would not be exposed to groundwater while visiting the site.
		Dermal contact	X	---	---	
		Inhalation of Volatiles in Ambient Air	X	---	---	
	Surface Water	Ingestion	X	---	---	On-site Visitors or Trespassers may potentially be exposed to surface water while visiting the site; however, surface water only pools on the site in the Spring, and any contact would be likely to be for only a brief period of time, therefore exposure is not likely.
Dermal contact		X	---	---		

FIGURES

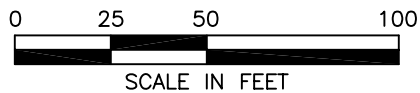
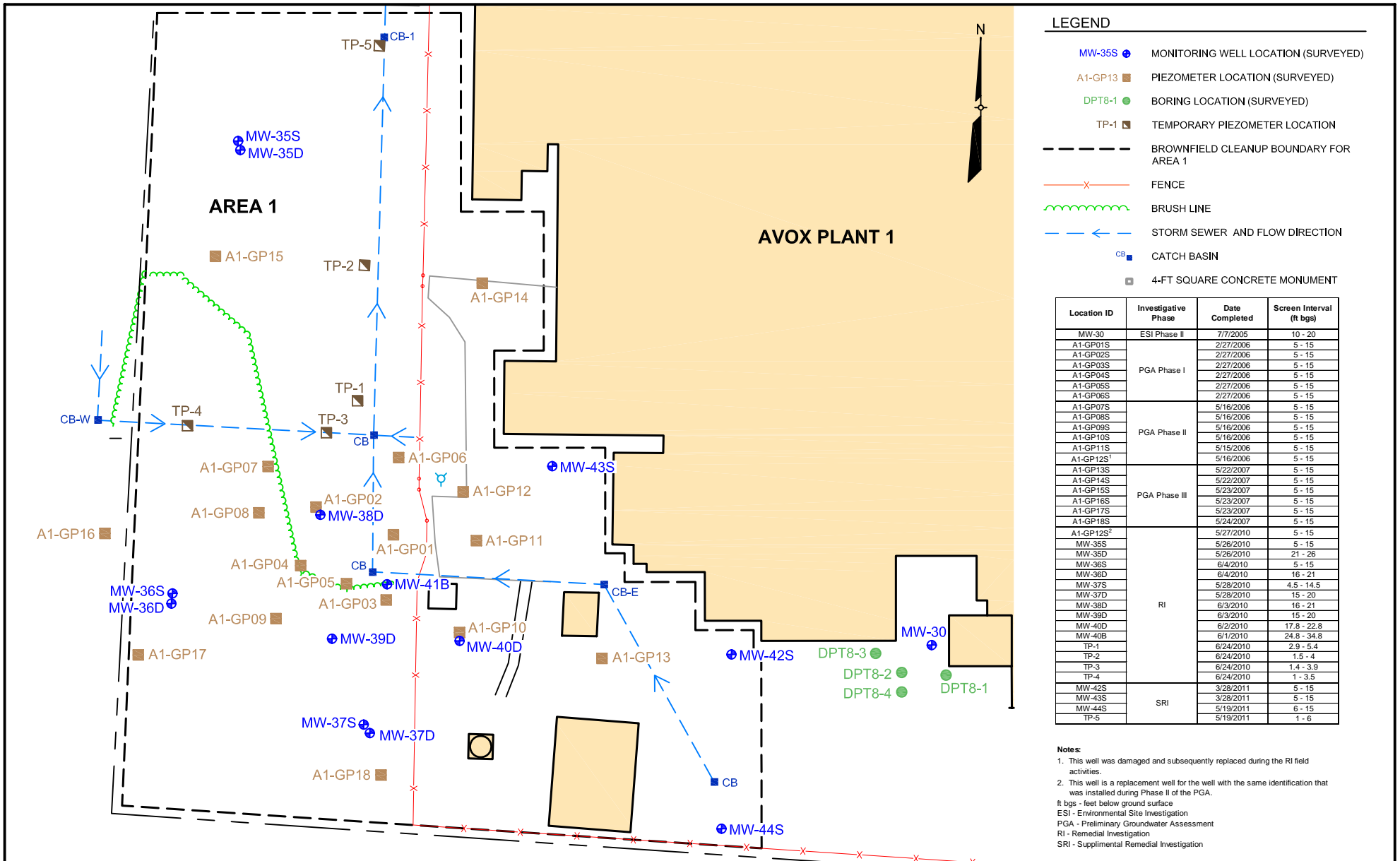


FIGURE 1
MONITORING WELL, PIEZOMETER AND
CATCH BASIN LOCATIONS

FORMER SCOTT AVIATION FACILITY AREA 1
 LANCASTER, NEW YORK

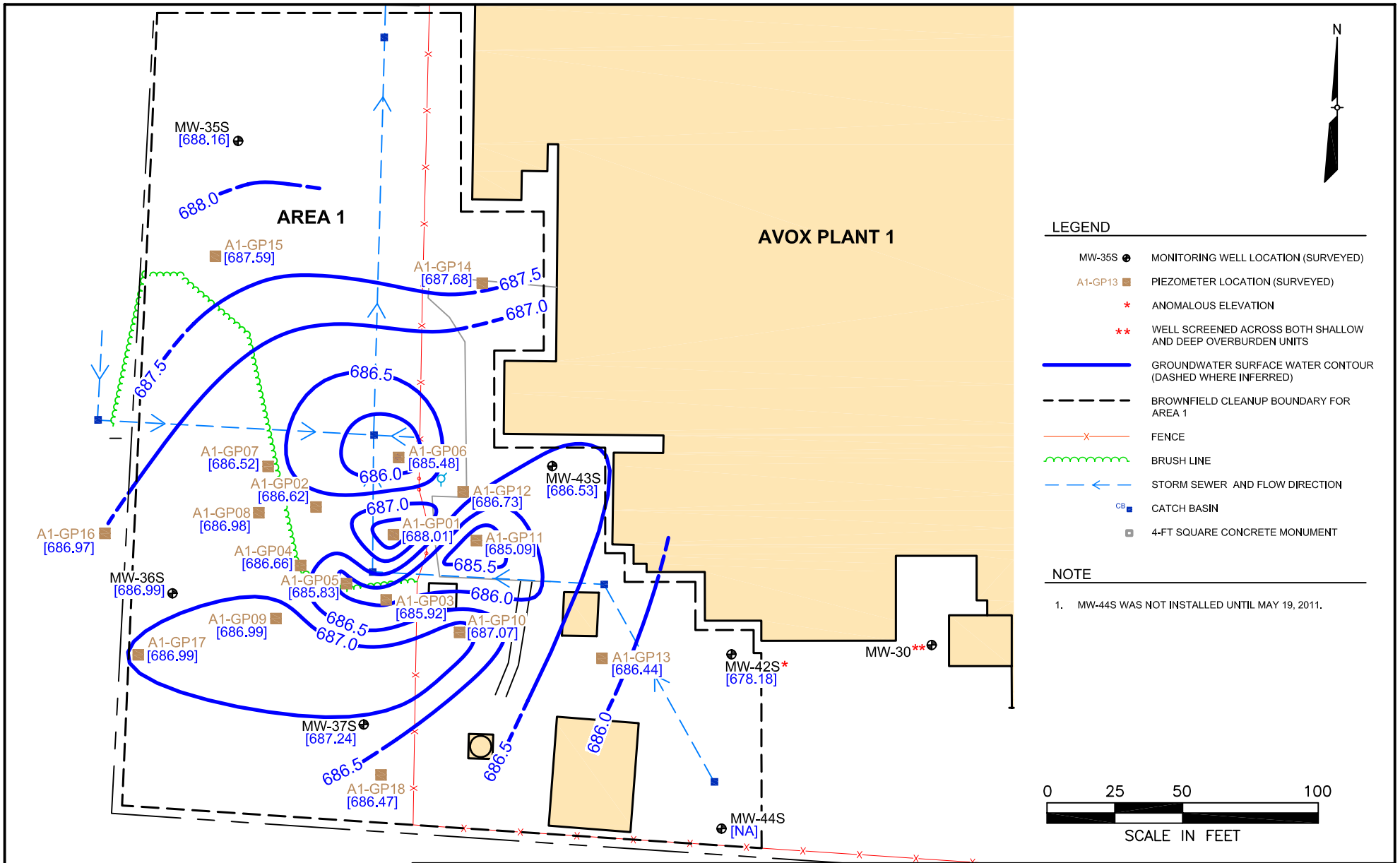


FIGURE 2
SHALLOW OVERBURDEN GROUNDWATER
SURFACE ELEVATION CONTOURS
APRIL 7, 2011
 FORMER SCOTT AVIATION FACILITY AREA 1
 LANCASTER, NEW YORK

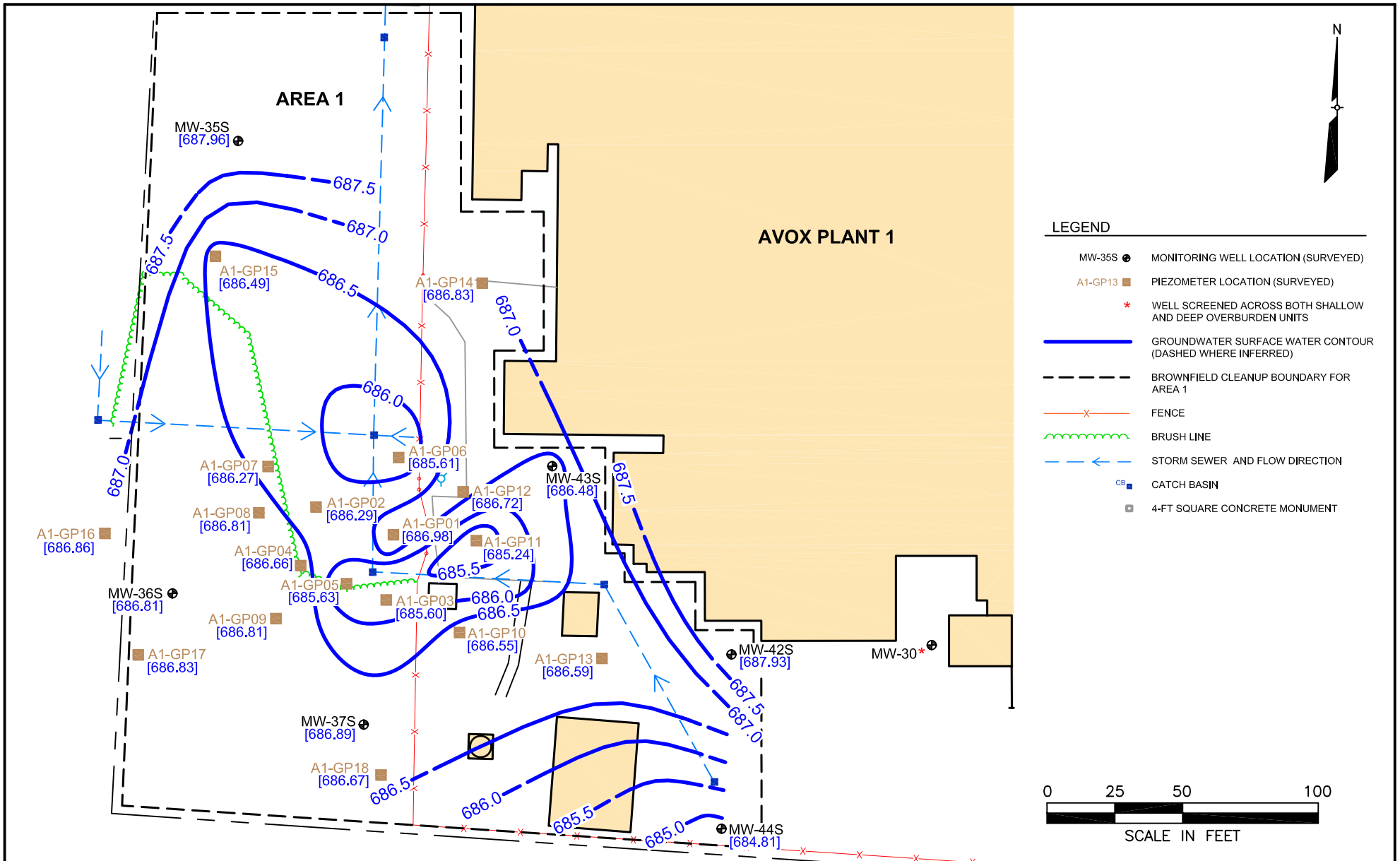


FIGURE 3
SHALLOW OVERBURDEN GROUNDWATER
SURFACE ELEVATION CONTOURS
JUNE 1, 2011
 FORMER SCOTT AVIATION FACILITY AREA 1
 LANCASTER, NEW YORK

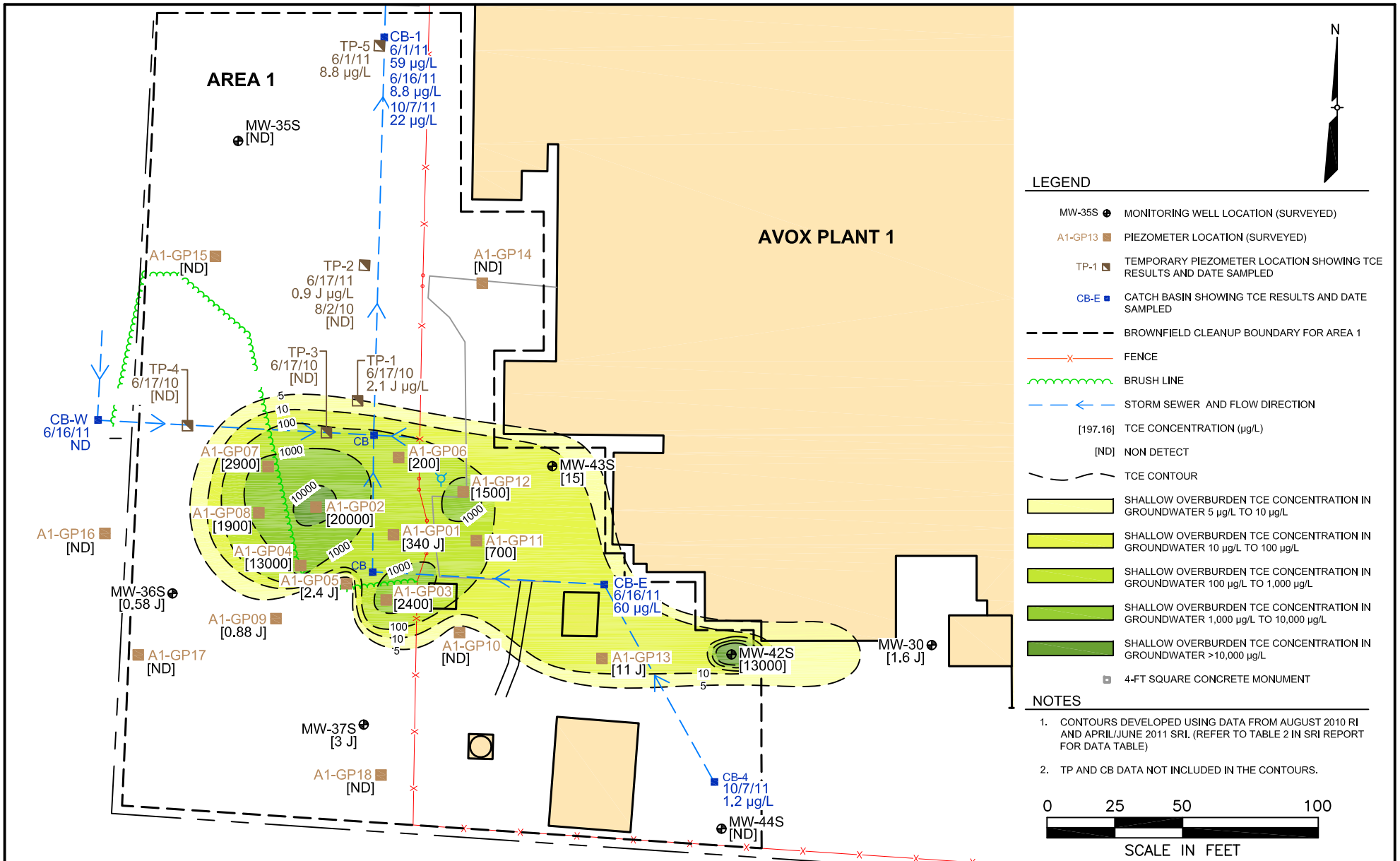


FIGURE 4
TCE CONTAMINANT PLUME BASED ON
SHALLOW OVERBURDEN GROUNDWATER DATA
 FORMER SCOTT AVIATION FACILITY AREA 1
 LANCASTER, NEW YORK

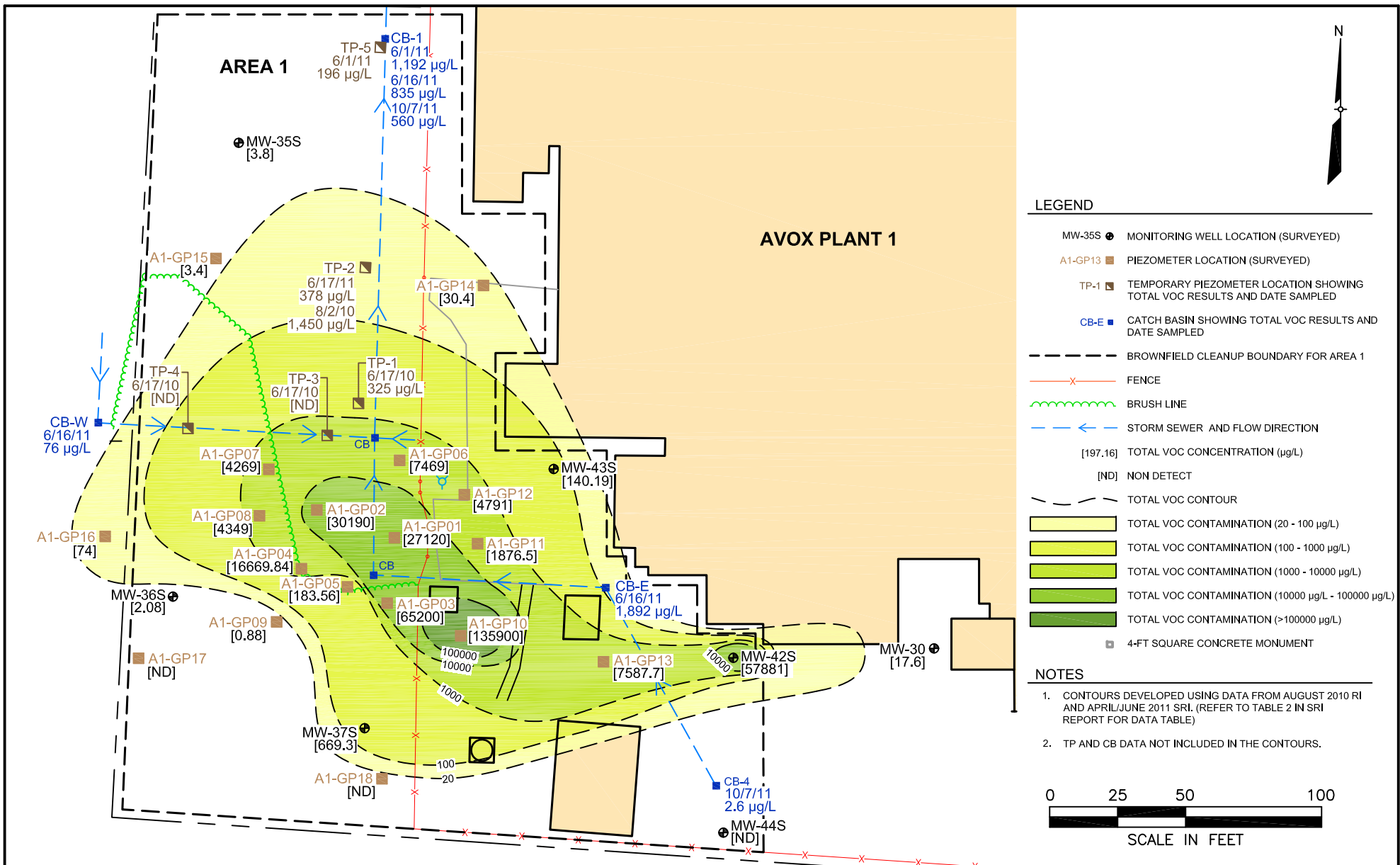
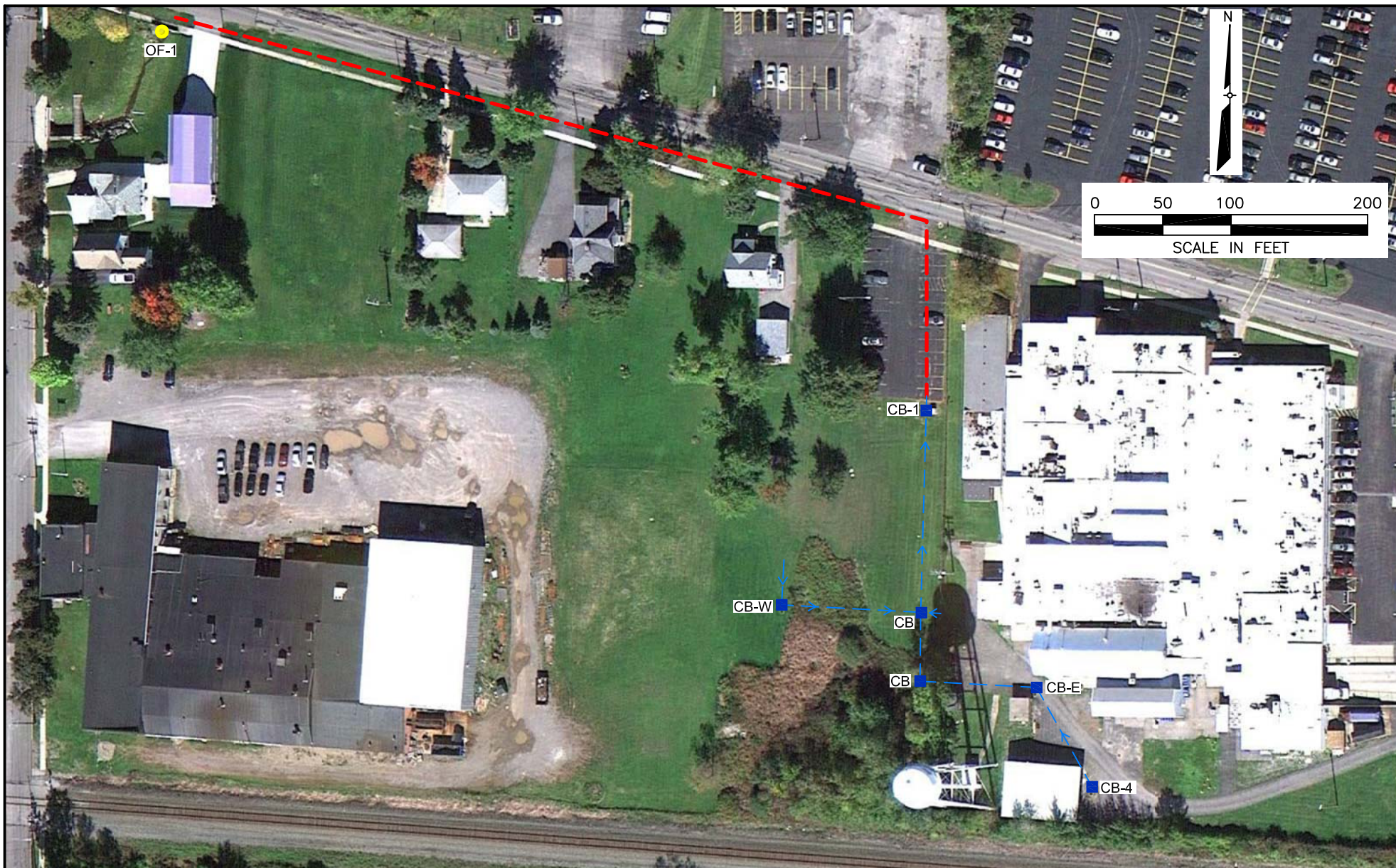


FIGURE 5
TOTAL VOC CONTAMINANT PLUME BASED ON
SHALLOW OVERBURDEN GROUNDWATER DATA
 FORMER SCOTT AVIATION FACILITY AREA 1
 LANCASTER, NEW YORK



LEGEND

CB-E ■ CATCH BASIN

OF-1 ● OUTFALL

← — STORM SEWER AND FLOW DIRECTION

--- ESTIMATED STORM SEWER LOCATION



FIGURE 6
AERIAL WITH CATCH BASINS AND OUTFALL

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

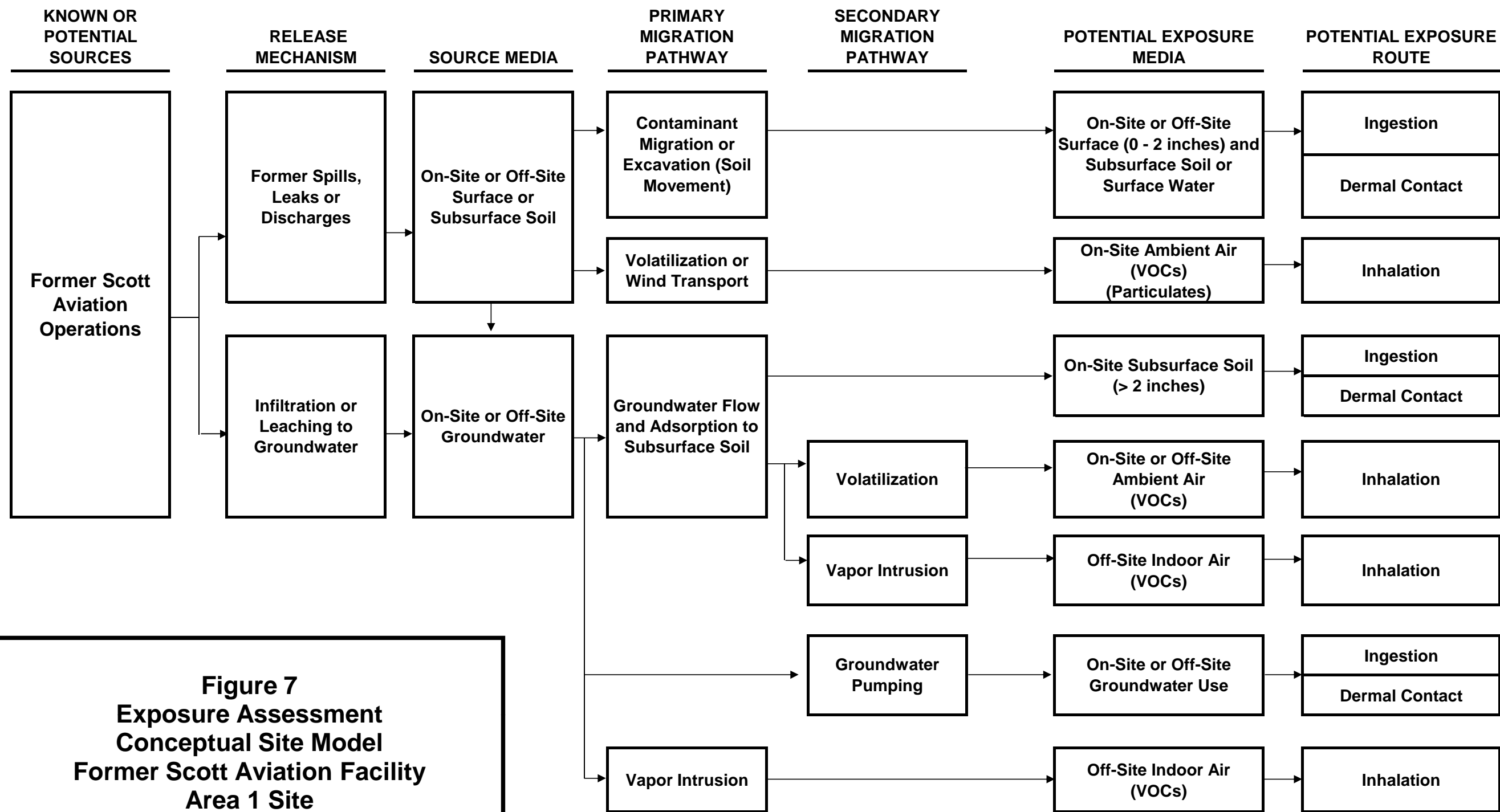
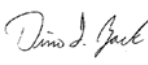
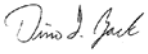


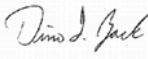
Figure 7
Exposure Assessment
Conceptual Site Model
Former Scott Aviation Facility
Area 1 Site

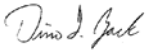
Notes:
 Table 6 provides summary information regarding the potential receptor groups identified for the investigation for the on-site and off-site areas of interest, respectively.

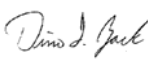
APPENDIX A

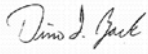
HTW DRILLING LOG				HOLE NO.		MW-42S		
PROJECT Former Scott Aviation Facility BCP				10. HOLE LOCATION South of Plant 1		SHEET 1 OF 2 SHEETS		
1. LOCATION Lancaster, New York				11. NO. OF OVERBURDEN GEOTECH SAMPLES 0		DISTURBED NA	UNDISTURBED NA	
2. COMPANY AECOM				12. SAMPLES FOR CHEMICAL ANALYSIS No soil samples		13. Total Number of Core Boxes NA		
3. DRILLING COMPANY QISI				14. SURFACE ELEVATION AT HOLE 688.7 ft AMSL		15. ELEVATION DATUM NAD83		
4. MANUFACTURER'S DESIGNATION OF DRILL 2009 Diedrich D-50 ATV				17. DATE HOLE STARTED 3/28/2011		18. DATE HOLE COMPLETED 3/28/2011		
5. SIZE AND TYPE OF EQUIPMENT 2009 Diedrich D-50 ATV				16. DEPTH OF GROUNDWATER ENCOUNTERED NA				
6. NAME OF DRILLER Ron Brown				19. WEATHER Sunny, 32F				
7. THICKNESS OF OVERBURDEN NA ft				20. DISPOSITION OF HOLE				
8. DEPTH DRILLED INTO ROCK NA ft				21. NAME OF INSPECTOR Dino Zack				
9. TOTAL DEPTH OF HOLE 15 ft				22. SIGNATURE OF INSPECTOR 				
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-5" med brown FILL (f-m gravel, some silt, little f-c sand) (moist)	5	NA	0.0	7 7 4 2	
	2		0-4" med brown FILL (f-m gravel, little f-c sand, little silt) (moist) 4-20" tan-reddish brown SILT, little clay, trace vf grey sand (moist)	20	NA	0.0	3 4 3 3	
	4		0-22" tan- reddish brown SILT, little clay, trace m gravel, trace vf grey sand (dry/moist)	22	NA	0.0	3 8 7 9	
	6		0-14" tan- reddish brown SILT, little clay, trace m gravel, trace vf grey sand (dry/moist)	14	NA	0.0	4 7 9 10	
	8		0-22" reddish brown SILT, little clay, trace f-m gravel (moist) very stiff	22	NA	0.0-10.1	6 9 14 16	highest PID at 11"
	10							

HTW DRILLING LOG							HOLE NO.	MW-42S
PROJECT Former Scott Aviation Facility BCP							SHEET 2	SHEETS OF 2
1. LOCATION Lancaster, New York					21. NAME OF INSPECTOR Dino Zack			
2. COMPANY AECOM					22. SIGNATURE OF INSPECTOR 			
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-22" reddish brown SILT, little clay, trace f-m gravel (moist) very stiff 18-22" color change to dark reddish/purple brown	22	NA	0.3-14.7	3	highest PID at 12"
	11						9	
	12						12	
	14						14	
	12		0-24" dark purple brown SILT, little clay, trace f-m gravel (moist) soft and pliable	24	NA	0.0-14.2	15	highest PID at 10"
	13						19	
	18						18	
	18						18	
	14		0-12" dark purple brown SILT, some clay, trace f-m gravel (moist) soft and pliable	12	NA	0.0	3	
	15						3	
	15		Bottom of borehole at 15'					
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							

HTW DRILLING LOG							HOLE NO.		MW-43S	
PROJECT Former Scott Aviation Facility BCP				10. HOLE LOCATION South of Plant 1			SHEET 1 OF 2		SHEETS	
1. LOCATION Lancaster, New York				11. NO. OF OVERBURDEN GEOTECH SAMPLES 0			DISTURBED NA		UNDISTURBED NA	
2. COMPANY AECOM				12. SAMPLES FOR CHEMICAL ANALYSIS No soil samples			13. Total Number of Core Boxes NA			
3. DRILLING COMPANY QISI				14. SURFACE ELEVATION AT HOLE 689.6 ft AMSL			15. ELEVATION DATUM NAD83			
4. MANUFACTURER'S DESIGNATION OF DRILL 2009 Diedrich D-50 ATV				17. DATE HOLE STARTED 3/28/2011			18. DATE HOLE COMPLETED 3/28/2011			
5. SIZE AND TYPE OF EQUIPMENT 2009 Diedrich D-50 ATV				16. DEPTH OF GROUNDWATER ENCOUNTERED NA						
6. NAME OF DRILLER Ron Brown				19. WEATHER Sunny, 32F						
7. THICKNESS OF OVERBURDEN NA ft				20. DISPOSITION OF HOLE						
8. DEPTH DRILLED INTO ROCK NA ft				21. NAME OF INSPECTOR Dino Zack						
9. TOTAL DEPTH OF HOLE 15 ft				22. SIGNATURE OF INSPECTOR 						
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS		
	1		0-6" dark grey FILL (f-m gravel and f-c sand) (moist)	6	NA	1.6	9	highest PID at 6"		
	2		0-14" dark grey FILL (f-c sand and wood fragments and f-m gravel, little silt) (moist)	12	NA	0.5	3			
	3						2			
	4						1			
	5						3			
	6		0-2" dark grey FILL (f-c sand and wood fragments and f-m gravel, little silt) (moist)	2	NA	0.0	2			
	7						0			
	8						0			
	9						0			
	10		0-12" reddish brown SILT, little clay, trace f-m gravel (moist) 12-20" olive-tan SILT, trace clay (moist)	20	NA	0.0	1			
							5			
							8			
							8			
			0-24" reddish brown SILT, little clay, some tan-olive silt interbeds (moist)	24	NA	0.0	4			
							7			
							8			
							10			

HTW DRILLING LOG							HOLE NO.	MW-43S
PROJECT Former Scott Aviation Facility BCP							SHEET 2	SHEETS OF 2
1. LOCATION Lancaster, New York					21. NAME OF INSPECTOR Dino Zack			
2. COMPANY AECOM					22. SIGNATURE OF INSPECTOR 			
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-24" reddish brown SILT, little clay, some tan-olive silt interbeds (moist)	24	NA	0.0	5	
	11						6	
							8	
	12						8	
	12		0-12" reddish brown SILT, little clay, some tan-olive silt interbeds (moist) 12-24" reddish brown SILT and CLAY, (moist) very pliable	24	NA		5	
	13						9	
							8	
	14		0-12" reddish brown SILT and CLAY, trace f-m gravel, trace tan-olive SILT interbeds (moist) very pliable	12	NA		2	
	15						2	
			End of boring at 15"					
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							

HTW DRILLING LOG				HOLE NO.		MW-44S		
PROJECT Former Scott Aviation Facility BCP				10. HOLE LOCATION South of Plant 1		SHEET 1 OF 2 SHEETS		
1. LOCATION Lancaster, New York				11. NO. OF OVERBURDEN GEOTECH SAMPLES 0		DISTURBED NA UNDISTURBED NA		
2. COMPANY AECOM				12. SAMPLES FOR CHEMICAL ANALYSIS No soil samples		13. Total Number of Core Boxes NA		
3. DRILLING COMPANY QISI				14. SURFACE ELEVATION AT HOLE 689.6 ft AMSL		15. ELEVATION DATUM NAD83		
4. MANUFACTURER'S DESIGNATION OF DRILL 2009 Diedrich D-50 ATV				17. DATE HOLE STARTED 5/19/2011		18. DATE HOLE COMPLETED 5/19/2011		
5. SIZE AND TYPE OF EQUIPMENT 2009 Diedrich D-50 ATV				16. DEPTH OF GROUNDWATER ENCOUNTERED 6 ft				
6. NAME OF DRILLER Mike Evenden				19. WEATHER Coludy, 66F				
7. THICKNESS OF OVERBURDEN NA ft				20. DISPOSITION OF HOLE				
8. DEPTH DRILLED INTO ROCK NA ft				21. NAME OF INSPECTOR Dino Zack				
9. TOTAL DEPTH OF HOLE 15 ft				22. SIGNATURE OF INSPECTOR 				
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	1		0-2" GRAVEL (moist)	2	NA	0.0	4 3 2 2	
	2		0-14" reddish brown SILT, little clay, trace fine gravel, stiff (moist)	14	NA	0.0	7 12 15 17	
	3							
	4		0-13" reddish brown SILT, little clay, stiff (moist)	13	NA	0.0	4 6 7 9	
	5							
	6		0-9" reddish brown SILT, little clay, stiff (moist) 9-14" fine-coarse GRAVEL (wet) 14-24" reddish brown SILT, little clay, stiff (moist)	24	NA	0.0	12 14 19 20	
	7							
	8		0-24" reddish brown SILT, some clay, trace very fine sand interbeds (moist)	24	NA	0.0	4 7 12 18	
	9							
	10							

HTW DRILLING LOG							HOLE NO.	MW-44S
PROJECT Former Scott Aviation Facility BCP							SHEET 2	SHEETS OF 2
1. LOCATION Lancaster, New York					21. NAME OF INSPECTOR Dino Zack			
2. COMPANY AECOM					22. SIGNATURE OF INSPECTOR 			
ELEVATION	DEPTH (FEET)	LEGEND	CLASSIFICATION OF MATERIAL	REC. (in.)	SAMPLE No. (TIME)	PID (ppm)	BLOW COUNT	REMARKS
	10		0-20" reddish brown SILT and CLAY, grading to dark purple brown SILT and CLAY at 10" (moist)	20	NA	0.0	3	
	11						9	
							12	
							16	
	12		0-24" dark purple brown SILT and CLAY, pliable (moist)	24	NA	0.0	14	
							14	
	13						14	
							14	
	14		0-20" dark purple brown SILT and CLAY, pliable (moist)	20	NA	0.0	3	
	15						3	
			End of boring at 15"					
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							

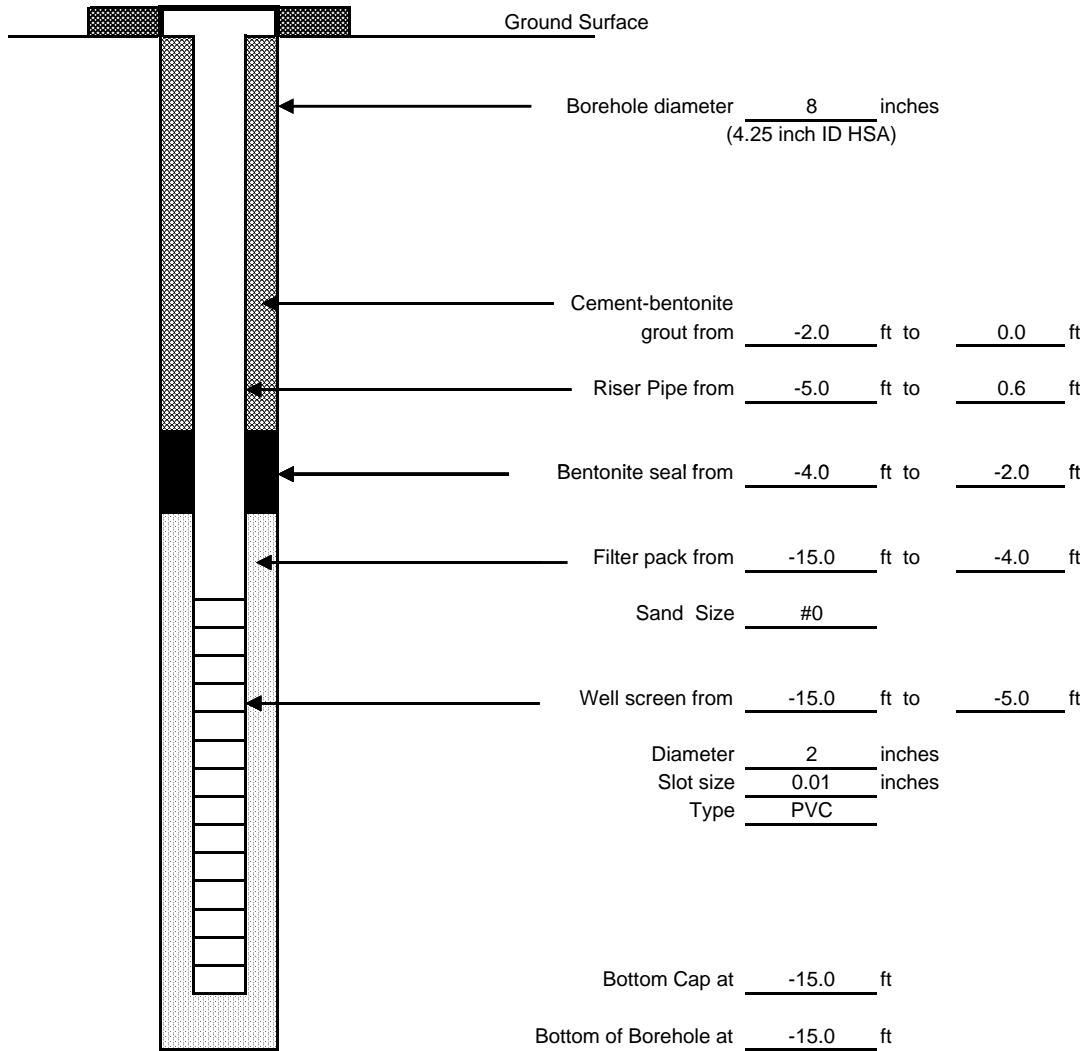


Overburden Well Diagram

Well No. MW-42S

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 689.7 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	4/7/11		10.90
Casing Elevation: 689.08 ft AMSL	AECOM Rep.: Dino Zack	6/1/11		1.15
Datum: NAD83	Date of Completion: 3/28/2011			

Flush mount completion with concrete pad and locking J plug.



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

(NOT TO SCALE)

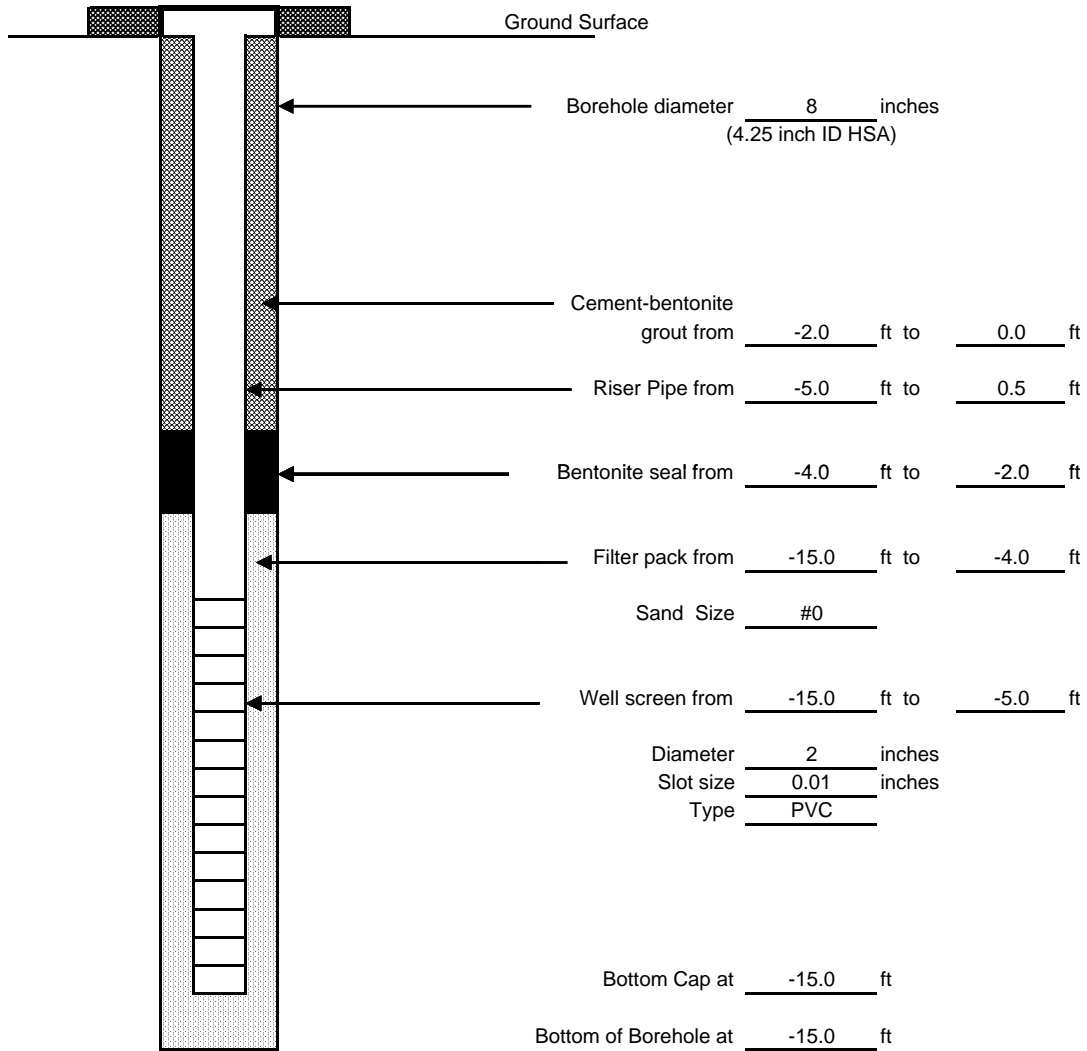


Overburden Well Diagram

Well No. MW-43S

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 689.6 ft AMSL	Driller: Ron Brown	Date	Time	Depth
Top of PVC	Well Permit No.: NA	4/7/11		2.60
Casing Elevation: 689.14 ft AMSL	AECOM Rep.: Dino Zack	6/1/11		2.65
Datum: NAD83	Date of Completion: 3/28/2011			

Flush mount completion with concrete pad and locking J plug.



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

(NOT TO SCALE)

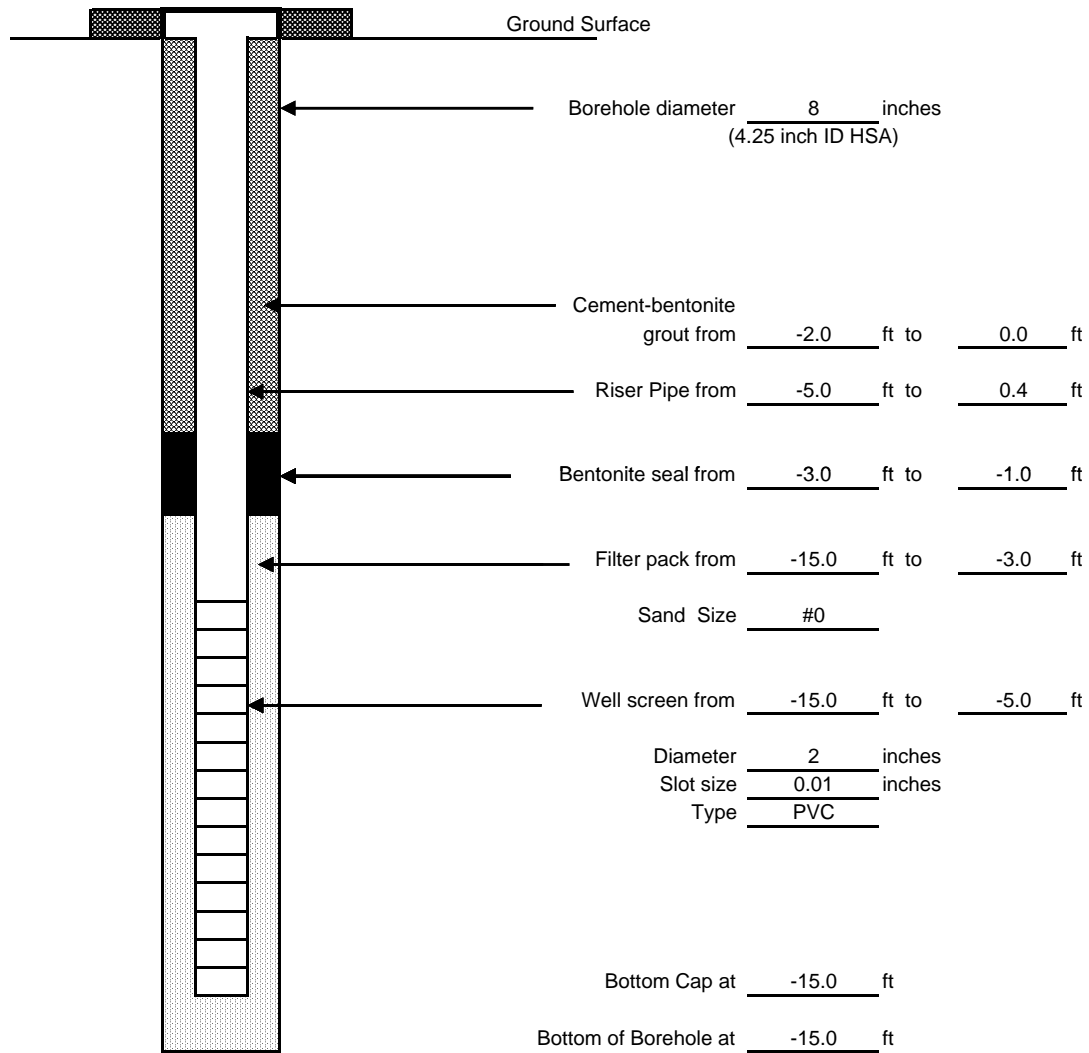


Overburden Well Diagram

Well No. MW-44S

Project: Former Scott Aviation Facility BCP	Location: Lancaster, NY	Page 1 of 1		
AECOM Project No.: 60155991	Subcontractor: QISI	Water Levels		
Surface Elevation: 689.4 ft AMSL	Driller: Mike Evenden	Date	Time	Depth
Top of PVC	Well Permit No.: NA	6/1/11		4.15
Casing Elevation: 688.98 ft AMSL	AECOM Rep.: Dino Zack			
Datum: NAD83	Date of Completion: 5/19/2011			

Flush mount completion with concrete pad and locking J plug.



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

(NOT TO SCALE)

APPENDIX B

Monitoring Well Development Log

Date Started (mo/day/yr) 3/30/2011 Date Completed (mo/day/yr) 4/1/2011
 Field Personnel E. Laity
 Site Name Former Scott Aviation Facility Area 1 - BCP
 AECOM Job # 60155991
 Well ID # MW-42S
 Investigative Area _____
 Weather Conditions Sunny
 Air Temperature 35 °F

Total Well Depth (TWD) = 14.3 1/100 ft
 Depth to Ground Water (DGW) = 13.34 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 0.96 1/100 ft
 1 Casing Volume (OCV) = LWC x 0.16 = 0.15 gallons
 5 Casing Volumes = 0.77 gallons
 Method of Well Development Whale pump/surge
 Total Volume of Water Removed 0.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
3/30/2011										
9:30										surge w/ whale pump
9:35	0.03	0.2						>1000/ tan	13.6	start purging
9:40	0.03	0.3						>1000/ tan	13.6	below top of pump
9:50	0.01	0.3						133/tan	13.6	below top of pump
10:00	well dry; switching to peristaltic pump - not enough water with whale pump to hook up flow through cell									
10:10	start peristaltic pump - hook up flow thru cell									
10:15	0.01	0.3	11.35	14.34	7.01	235.1	0.904	-		sucking air
10:20	0.01	0.3	11.39	10.29	6.85	224	1.717	11.04/clear	14.3	mostly air; few slugs
13:30									14.2	after recharging 3 hrs
3/31/2011										
9:50									13.6	next day pump down
9:55	0.06									start peristaltic pump

COMMENTS/OBSERVATIONS: Flushmount well

Monitoring Well Development Log

Date Started (mo/day/yr) 3/30/2011 Date Completed (mo/day/yr) 4/1/2011
 Field Personnel E. Laity
 Site Name Former Scott Aviation Facility Area 1 - BCP
 AECOM Job # 60155991
 Well ID # MW-42S
 Investigative Area _____
 Weather Conditions Sunny
 Air Temperature 35 °F

Total Well Depth (TWD) = 14.3 1/100 ft
 Depth to Ground Water (DGW) = 13.34 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 0.96 1/100 ft
 1 Casing Volume (OCV) = LWC x 0.16 = 0.15 gallons
 5 Casing Volumes = 0.77 gallons
 Method of Well Development Whale pump/surge
 Total Volume of Water Removed 0.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
3/31/2011										
9:58										measuring tape at bottom of well - water still coming up tube
9:59										well dry; few 4" slugs of water coming up tube; will continue to pump; ~ 1 L water purged
10:05										drawing ~ 1" slugs of water with 1-2' spaces between. Stop pumping. Let recharge overnight.
4/1/2011										
10:05									13.31	befor start of purge
10:10	200 ml/min									start pump
10:14									13.75	
10:15								<50	13.85	
10:16									14.07	
10:18									14.29	
10:19										Dry - sucking ~1" slugs of water every 4-12"; ~0.25gal purged on 4/1/2011 Stop pumping well complete @ 10:25

COMMENTS/OBSERVATIONS: Flushmount well;

AECOM

Monitoring Well Development Log

Date Started (mo/day/yr) 3/30/2011 Date Completed (mo/day/yr) 3/30/2011
 Field Personnel E. Laity
 Site Name Former Scott Aviation Facility Area 1 - BCP
 AECOM Job # 60155991
 Well ID # MW-43S
 Investigative Area _____
 Weather Conditions Sunny
 Air Temperature 40 °F

Total Well Depth (TWD) = 14.5 1/100 ft
 Depth to Ground Water (DGW) = 4.05 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 10.45 1/100 ft
 1 Casing Volume (OCV) = LWC x 0.16 = 1.67 gallons
 5 Casing Volumes = 8.36 gallons
 Method of Well Development Whale pump/surge
 Total Volume of Water Removed 8.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
3/30/2011										
10:40										start surge
10:45										start surge and purge
10:47	2	5						>1000 / tan		
10:48	1	6						>1000 / lt. tan	12	water level dropping
10:52	0.16	7						>1000 / tan	13.6	top of whale pump
10:57	0.16	8						633 / tan		hook up flow thru cell
11:00	0.03	8	13.06	7.53	6.98	77.9	1.279	325		below top of whale pump 13.6
11:05	0.03	8.2	13.25	8.12	7.06	93.4	1.227	15.4	>13.6	
11:10	0.03	8.3	13.21	8.41	7.09	97.3	1.204	11	>13.6	
11:15	0.03	8.4	13.52	8.48	7.04	105.3	1.195	5.54	>13.6	
11:20	0.03	8.5	13.79	8.42	7	106.4	1.193	4.04 / clear	>13.6	stop purging

COMMENTS/OBSERVATIONS: Flushmount well

Monitoring Well Development Log

Date Started (mo/day/yr) 5/24/2011 Date Completed (mo/day/yr) 5/24/2011
 Field Personnel D. Zack
 Site Name Former Scott Aviation Facility Area 1 - BCP
 AECOM Job # 60155991
 Well ID # MW-44S
 Investigative Area _____
 Weather Conditions Sunny
 Air Temperature 70 °F

Total Well Depth (TWD) = 15 1/100 ft
 Depth to Ground Water (DGW) = 4.15 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 10.85 1/100 ft
 1 Casing Volume (OCV) = LWC x 0.16 = 1.74 gallons
 5 Casing Volumes = 8.68 gallons
 Method of Well Development Whale pump/surge
 Total Volume of Water Removed 18.5 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	DO	pH	ORP	Specific Conductivity (µmhos/cm)	Turbidity/Color	Water Level (ft BTIC)	Remarks
5/24/2011										
7:51	1	5	-	-	-	-	-	>1000 / tan	4.15	start purge
7:59	1	9	-	-	-	-	-	>1000 / tan	9.7	surge and purge
8:04	1	9	-	-	-	-	-	872 / tan	>15	surge and purge
8:08	1	11	-	-	-	-	-	321 / tan	>15	surge and purge
8:25	1	16	-	-	-	-	-	512 / tan	>15	surge and purge
14:30	1	16	-	-	-	-	-	112 / lt tan	12.8	surge and purge
14:35	1	18	-	-	-	-	-	72	>15	surge and purge
15:03	1	18.5	-	-	-	-	-	48	>15	surge and purge
										stop purge

COMMENTS/OBSERVATIONS: Flushmount well; YSI was not working properly; surge with whale pump; allow well to recharge at 8:04, 8:08, 8:25, 14:35; well dry at 15:03.

APPENDIX C

GROUNDWATER SAMPLING LOG

Date (mo/day/yr) 4/7/2011
 Field Personnel Emily Laity
 Site Name Former Scott Aviation Site - Lancaster, NY
 AECOM Job # 60155991
 Well ID # MW-42S
 _____ Upgradient _____ Downgradient
 Weather Conditions Sunny
 Air Temperature 55 ° F
 Total Depth (TWD) Below Top of Casing = 14.3 1/100 ft
 Depth to Groundwater (DGW) Below Top of Casing = 10.9 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 3.4 1/100 ft
 1 Casing Volume (OCV) = LWC x 0.163 = 0.6 gal
 3 Casing Volumes = 1.7 gal
 Method of Well Evacuation Peristaltic Pump
 Method of Sample Collection Peristaltic Pump/Poly Tubing
 Total Volume of Water Removed 4 liter

Casing Diameter 2 inches
 Casing Material PVC
 Measuring Point Elevation 689.08 1/100 ft
 Height of Riser (above land surface) -0.58 1/100 ft
 Land Surface Elevation 689.66 1/100 ft
 Screened Interval (below land surface) 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100		
Time (Military)	14:20	14:25	14:30	14:35	14:40		
Depth to Groundwater Below Top of Casing (ft)	11.35	11.47	11.57	11.65	11.83		
Drawdown (ft)	-0.45	-0.12	-0.1	-0.08	-0.18		
pH (S.U.)	7.01	6.95	6.94	6.93	6.92		
Sp. Cond. (S/cm)	1.677	1.683	1.69	1.686	1.692		
Turbidity (NTUs)	16.9	3.5	3.03	2.71	2.3		
Dissolved Oxygen (g/L)	5.84	2.48	2.19	1.97	1.89		
Water Temperature (°C)	11.87	11.57	11.39	11.52	11.52		
ORP (mV)	61.9	65.6	68	68.8	70.8		

Physical appearance at start Color clear Physical appearance at sampling Color clear

 Odor no _____

 Sheen/Free Product no Sheen/Free Product no

COMMENTS/OBSERVATIONS Start purging at 14:10. Samples collected at 14:45.

Date (mo/day/yr) 4/7/2011 Casing Diameter 2 inches
 Field Personnel Emily Laity Casing Material PVC
 Site Name Former Scott Aviation Site - Lancaster, NY Measuring Point Elevation 689.14 1/100 ft
 AECOM Job # 60155991 Height of Riser (above land surface) -0.46 1/100 ft
 Well ID # MW-43S Land Surface Elevation 689.6 1/100 ft
 _____ Upgradient _____ Downgradient Screened Interval (below land surface) 5-15 1/100 ft

Weather Conditions Sunny
 Air Temperature 55 ° F
 Total Depth (TWD) Below Top of Casing = 14.5 1/100 ft
 Depth to Groundwater (DGW) Below Top of Casing = 2.57 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 11.93 1/100 ft
 1 Casing Volume (OCV) = LWC x 0.163 = 1.9 gal
 3 Casing Volumes = 5.8 gal
 Method of Well Evacuation Peristaltic Pump
 Method of Sample Collection Peristaltic Pump/Poly Tubing
 Total Volume of Water Removed 4 liter

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	Dup

FIELD ANALYSES

Flow Rate (ml/min)	250	250	150	150	100	100	100	100
Time (Military)	13:05	13:10	13:15	13:20	13:25	13:30	13:35	13:40
Depth to Groundwater Below Top of Casing (ft)	3.05	4.05	4.33	4.82	4.85	4.85	4.85	4.85
Drawdown (ft)	-0.48	-1	-0.28	-0.49	-0.03	0	0	0
pH (S.U.)	7.35	7.14	7.1	7.07	7.06	7.06	7.05	7.04
Sp. Cond. (S/cm)	0.904	0.859	0.854	0.831	0.822	0.8	0.792	0.794
Turbidity (NTUs)	17.2	7.95	9.09	6.14	4.72	4.62	4.79	3.62
Dissolved Oxygen (g/L)	9.96	6.13	6.04	5.84	5.82	5.7	5.65	5.68
Water Temperature (°C)	11.79	11.44	11.21	11.49	11.91	11.9	12	11.93
ORP (mV)	2.6	25.6	34.7	39.1	42.7	47.1	50.3	47.2

Physical appearance at start Color clear Physical appearance at sampling Color clear
 Odor no Odor no
 Sheen/Free Product no Sheen/Free Product no

COMMENTS/OBSERVATIONS Start purging at 13:00. Samples collected at 13:45.

Date (mo/day/yr) 6/1/2011
 Field Personnel Dino Zack
 Site Name Former Scott Aviation Site - Lancaster, NY
 AECOM Job # 60155991
 Well ID # MW-44S
 _____ Upgradient _____ Downgradient
 Weather Conditions Sunny
 Air Temperature 80 ° F
 Total Depth (TWD) Below Top of Casing = 15 1/100 ft
 Depth to Groundwater (DGW) Below Top of Casing = 8.55 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 6.45 1/100 ft
 1 Casing Volume (OCV) = LWC x 0.163 = 1.1 gal
 3 Casing Volumes = 3.2 gal
 Method of Well Evacuation Peristaltic Pump
 Method of Sample Collection Peristaltic Pump/Poly Tubing
 Total Volume of Water Removed 3 liter

Casing Diameter 2 inches
 Casing Material PVC
 Measuring Point Elevation 688.96 1/100 ft
 Height of Riser (above land surface) -0.44 1/100 ft
 Land Surface Elevation 689.4 1/100 ft
 Screened Interval (below land surface) 5-15 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	Dup

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100	
Time (Military)	10:25	10:30	10:40	10:45	10:50	10:55	11:00
Depth to Groundwater Below Top of Casing (ft)	8.88	9.14	9.51	9.66	9.82	9.94	10.02
Drawdown (ft)	-0.33	-0.26	-0.37	-0.15	-0.16	-0.12	-0.08
pH (S.U.)	7.05	7.02	7.01	7.02	7.02	7.01	7
Sp. Cond. (S/cm)	0.675	0.641	0.648	0.654	0.663	0.661	0.66
Turbidity (NTUs)	19.8	44	70.1	75.4	72.4	55.6	45.1
Dissolved Oxygen (mg/L)	7.72	7.31	7.35	7.37	7.38	7.4	7.45
Water Temperature (°C)	14.97	14.83	15.92	16.24	16.53	16.23	15.98
ORP (mV)	218.4	255.7	278.5	285.6	300.6	312	324

Physical appearance at start Color clear Physical appearance at sampling Color sl turbid
 Odor no Odor no
 Sheen/Free Product no Sheen/Free Product no

COMMENTS/OBSERVATIONS Start purging at 10:20hrs. Becoming slightly turbid at 10:35hrs. Samples collected at 11:05hrs (dup collected at 08:00hrs).

APPENDIX D

Data Usability Summary Report

Prepared by: Helen Jones, AECOM Project Chemist

Prepared for: Dino Zack, AECOM Project Manager

Project: Scott Aviation Investigation, April 2011

Date prepared: May 2011

This Data Usability Summary Report (DUSR) provides a discussion of the usability of the data collected during investigation activities at the Scott Aviation facility located in Lancaster, NY. Our overall conclusion is that the data are usable for the intended purpose of assessing site conditions relative to regulatory screening values and available background data.

Data validation of the full dataset was completed in May 2011. The data packages were reviewed using the following USEPA Region 2 data validation Standard Operating Procedures (SOPs) as guidance:

- USEPA Region 2, SOP HW-6, CLP Organics Data Review and Preliminary Review (CLP/SOW OLM0 4.3) [Revision 14, September 2006]; and

Where necessary, the Region 2 SOPs were modified to incorporate project-specific or method-specific criteria. Data qualifiers applied were consistent with the Region 2 guidance and consisted of the following:

Qualifier	Definition
J	Estimated
U	Not detected
UJ	Not detected, estimated
JN	Presumptively present at estimated quantity
R	Rejected

Elements reviewed in preparing the DUSR were consistent with those specified in the NYSDEC guidance (NYSDEC, 2001).

Summary

Three groundwater samples were collected at the site on April 7, 2011 and submitted to Test America Laboratory, Amherst, NY, a New York State certified laboratory (NYSDOH ELAP No. 10026). All analyses conducted by Test America were performed in accordance with New York State Department of Environmental Conservation (NYSDEC) 2000 Analytical Services Protocol (ASP 2000) with Category B deliverables. The analytical methods used in this program are summarized in Table 1.

Table 1: Analytical Procedures

Analysis Category	Analytical Method
Volatile Organics (VOCs)	EPA SW-846 Method 8260B, NYSDEC ASP 2000

One trip blank accompanied the groundwater samples and was analyzed for VOCs. These data were reviewed in the same manner as the field samples. However, qualifications applied to these samples are not included in the discussion below.

The attachment to this DUSR provides a complete listing of samples and collection dates; summary of qualified data; and copies of nonconformances.

Groundwater Data

The nonconformances associated with the groundwater analyses were minimal. All groundwater results may be considered usable for decision making purposes.

Volatile Organic Compounds

In general, the VOC data appear to be valid, and may be considered usable for decision making purposes. No VOC data were rejected. Two analytes in one sample were qualified due to quantitation outside the calibration range of the instrument.

Holding Times

All VOC holding times were met.

Sample Preservation

All VOC samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of nonconformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and did not contain any detections.

Surrogates – Surrogate recoveries were acceptable.

Internal Standard Recoveries – Internal standard recoveries were acceptable.

Calibrations – Calibrations were acceptable with the following exceptions: The continuing calibration percent differences (%Ds) for carbon tetrachloride were greater than the quality control limit of 20% on 04/13/11 at 10:59 on instrument HP5973C. Sensitivity increased with respect to the initial calibration average relative response factor. The associated non-detect results in samples Duplicate-BCP and MW-42 did not require qualification in response to the high instrument bias.

Laboratory Control Samples – Laboratory control sample (LCS) %Rs were acceptable.

Detection Limits and Sample Results

In sample MW-42, analytical dilutions were necessary to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range. The analytes 2-butanone and chloroethane were quantitated outside the initial calibration range. Due to the high dilution dictated by

other target compounds, these analytes were diluted out in the re-analysis of the sample. Therefore, the values being reported are from the original analysis and are qualified "J", as estimates.

Field Duplicates

The samples listed in the table below were the parent and field duplicate samples collected for this sampling event.

Parent Sample	Field Duplicate	Matrix
MW-43	Duplicate-BCP	Groundwater

Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be $\leq 30\%$ for aqueous samples or the difference between the parent and field duplicate results must be less than the reporting limit for results less than five times the reporting limit.

The results for the parent and field duplicate samples were non-detects, with exception to those listed in Table 3 below. All RPDs were less than the maximum advisory limits or the difference criteria were met for all analytes/compounds except for those results listed below in bolded text. The bolded results were qualified "J/UJ," as estimates because of laboratory/field sampling imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

%RPD: Relative percent difference

NC: RPD could not be calculated

*: The difference between the parent and field duplicate results was less than the reporting limit (twice the reporting limit for metals) for results less than five times the reporting limit. Variation of this magnitude is acceptable.

$\mu\text{g/L}$: micrograms per liter (ppb)

mg/L : milligrams per liter (ppm)

%: percent

Table 3 - Scott Aviation Field Precision

Method	Compound	MW-43	Duplicate-BCP	Units	% RPD
8260B	1,1,1-Trichloroethane	15	17	$\mu\text{g/L}$	12.5
8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	7.4	6.0	$\mu\text{g/L}$	20.9
8260B	1,1-Dichloroethane	13	14	$\mu\text{g/L}$	7.4
8260B	1,1-Dichloroethene	3.5	2.0	$\mu\text{g/L}$	54.5
8260B	2-Butanone (MEK)	3.3 J	3.0 J	$\mu\text{g/L}$	9.5
8260B	Acetone	13	15	$\mu\text{g/L}$	14.3
8260B	Benzene	ND	0.44 J	$\mu\text{g/L}$	NC
8260B	Carbon disulfide	1.1	0.99 J	$\mu\text{g/L}$	10.5

Method	Compound	MW-43	Duplicate-BCP	Units	% RPD
8260B	Chloroethane	12	11	µg/L	8.7
8260B	cis-1,2-Dichloroethene	34	33	µg/L	3.0
8260B	Dichlorodifluoromethane	ND	12	µg/L	NC
8260B	Methylcyclohexane	0.69 J	0.61 J	µg/L	12.3
8260B	Toluene	1.5	1.5	µg/L	0.0
8260B	Trichloroethene	15	16	µg/L	6.5
8260B	Vinyl chloride	19	22	µg/L	14.6
8260B	Xylenes, Total	1.7 J	1.5 J	µg/L	12.5

Completeness of Deliverables

The data were reported as NYSDEC ASP Category B deliverables. No significant omissions or deficiencies were noted.

Conclusions

The data are valid as reported and may be used for decision making purposes. No data points were rejected (R) though some were qualified as estimated (J) based on certain QC nonconformances as described in the sections above.

Several results were estimated below the reporting limit and qualified "J" by the laboratory. These qualifiers were maintained in the data validation.

Attachments to Data Usability Summary Report (DUSR)

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 480-3472-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-3472-1FD	Duplicate-BCP	Water	04/07/2011 1600	04/07/2011 1610
480-3472-2	MW-42	Ground Water	04/07/2011 1445	04/07/2011 1610
480-3472-3	MW-43	Ground Water	04/07/2011 1345	04/07/2011 1610
480-3472-4TB	Trip Blank	Water	04/07/2011 0000	04/07/2011 1610

Client: AECOM, Inc.

Job Number: 480-3472-1

Client Sample ID: Duplicate-BCP

Lab Sample ID: 480-3472-1FD

Date Sampled: 04/07/2011 1600

Client Matrix: Water

Date Received: 04/07/2011 1610

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 480-11844	Instrument ID: HP5973C
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: C9869.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 04/13/2011 1514		Final Weight/Volume: 5 mL
Prep Date: 04/13/2011 1514		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	17		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	6.0		0.31	1.0
1,1-Dichloroethane	14		0.38	1.0
1,1-Dichloroethene	2.0 J		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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	3.0	J	1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	15		3.0	10
Benzene	0.44	J	0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	0.99	J	0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	11		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	33		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	12 J		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	0.61	J	0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	1.5		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	16		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: AECOM, Inc.

Job Number: 480-3472-1

Client Sample ID: Duplicate-BCP

Lab Sample ID: 480-3472-1FD

Date Sampled: 04/07/2011 1600

Client Matrix: Water

Date Received: 04/07/2011 1610

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 480-11844	Instrument ID: HP5973C
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: C9869.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 04/13/2011 1514		Final Weight/Volume: 5 mL
Prep Date: 04/13/2011 1514		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	22		0.90	1.0
Xylenes, Total	1.5	J	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
Toluene-d8 (Surr)	94		71 - 126
4-Bromofluorobenzene (Surr)	85		73 - 120

Client: AECOM, Inc.

Job Number: 480-3472-1

Client Sample ID: MW-42
 Lab Sample ID: 480-3472-2
 Client Matrix: Ground Water

Date Sampled: 04/07/2011 1445
 Date Received: 04/07/2011 1610

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-11844	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C9870.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/13/2011 1539			Final Weight/Volume:	5 mL
Prep Date:	04/13/2011 1539				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	4000 25000	E	0.82 330	1.0 400
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	310 240J	E	0.23 92	1.0 400
1,1,2-Trichloro-1,2,2-trifluoroethane	1700	E	0.31 120	1.0 400
1,1-Dichloroethane	2700 8500	E	0.38 150	1.0 400
1,1-Dichloroethene	3800 6100	E	0.29 120	1.0 400
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	76		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-Hexanone	11		1.2	5.0
2-Butanone (MEK)	510	JE	1.3	10
4-Methyl-2-pentanone (MIBK)	3.5	J	2.1	5.0
Acetone	400		3.0	10
Benzene	1.9		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	9.0		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	100	JE	0.32	1.0
Chloroform	4.8		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	1100 1000	E	0.81 320	1.0 400
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	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	11		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	5.6		0.36	1.0
Toluene	1100	E	0.51 200	1.0 400
trans-1,2-Dichloroethene	31		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	4000 13000	E	0.46 180	1.0 400
Trichlorofluoromethane	ND		0.88	1.0

Client: AECOM, Inc.

Job Number: 480-3472-1

Client Sample ID: MW-42
 Lab Sample ID: 480-3472-2
 Client Matrix: Ground Water

Date Sampled: 04/07/2011 1445
 Date Received: 04/07/2011 1610

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 480-11844	Instrument ID: HP5973C
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: C9870.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 04/13/2011 1539		Final Weight/Volume: 5 mL
Prep Date: 04/13/2011 1539		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	27		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	100		71 - 126
4-Bromofluorobenzene (Surr)	93		73 - 120

Client: AECOM, Inc.

Job Number: 480-3472-1

Client Sample ID: MW-42
 Lab Sample ID: 480-3472-2
 Client Matrix: Ground Water

Date Sampled: 04/07/2011 1445
 Date Received: 04/07/2011 1610

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-12317 Instrument ID: HP5975T
 Prep Method: 5030B Prep Batch: N/A Lab File ID: T6902.D
 Dilution: 400 Run Type: DL Initial Weight/Volume: 5 mL
 Analysis Date: 04/16/2011 0216 Final Weight/Volume: 5 mL
 Prep Date: 04/16/2011 0216

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	25000		330	400
1,1,2,2-Tetrachloroethane	ND		84	400
1,1,2-Trichloroethane	240	J	92	400
1,1,2-Trichloro-1,2,2-trifluoroethane	1700		120	400
1,1-Dichloroethane	8500		150	400
1,1-Dichloroethene	6100		120	400
1,2,4-Trichlorobenzene	ND		160	400
1,2-Dibromo-3-Chloropropane	ND		160	400
1,2-Dibromoethane	ND		290	400
1,2-Dichlorobenzene	ND		320	400
1,2-Dichloroethane	ND		84	400
1,2-Dichloropropane	ND		290	400
1,3-Dichlorobenzene	ND		310	400
1,4-Dichlorobenzene	ND		340	400
2-Hexanone	ND		500	2000
2-Butanone (MEK)	ND		530	4000
4-Methyl-2-pentanone (MIBK)	ND		840	2000
Acetone	ND		1200	4000
Benzene	ND		160	400
Bromodichloromethane	ND		160	400
Bromoform	ND		100	400
Bromomethane	ND		280	400
Carbon disulfide	ND		76	400
Carbon tetrachloride	ND		110	400
Chlorobenzene	ND		360	400
Dibromochloromethane	ND		130	400
Chloroethane	ND		130	400
Chloroform	ND		140	400
Chloromethane	ND		140	400
cis-1,2-Dichloroethene	1000		320	400
cis-1,3-Dichloropropene	ND		140	400
Cyclohexane	ND		72	400
Dichlorodifluoromethane	ND		270	400
Ethylbenzene	ND		300	400
Isopropylbenzene	ND		320	400
Methyl acetate	ND		200	400
Methyl tert-butyl ether	ND		64	400
Methylcyclohexane	ND		64	400
Methylene Chloride	ND		180	400
Styrene	ND		290	400
Tetrachloroethene	ND		140	400
Toluene	1100		200	400
trans-1,2-Dichloroethene	ND		360	400
trans-1,3-Dichloropropene	ND		150	400
Trichloroethene	13000		180	400
Trichlorofluoromethane	ND		350	400

Analytical Data

Client: AECOM, Inc.

Job Number: 480-3472-1

Client Sample ID: MW-42
Lab Sample ID: 480-3472-2
Client Matrix: Ground Water

Date Sampled: 04/07/2011 1445
Date Received: 04/07/2011 1610

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-12317 Instrument ID: HP5975T
Prep Method: 5030B Prep Batch: N/A Lab File ID: T6902.D
Dilution: 400 Run Type: DL Initial Weight/Volume: 5 mL
Analysis Date: 04/16/2011 0216 Final Weight/Volume: 5 mL
Prep Date: 04/16/2011 0216

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		360	400
Xylenes, Total	ND		260	800

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		66 - 137
Toluene-d8 (Surr)	94		71 - 126
4-Bromofluorobenzene (Surr)	96		73 - 120

Client: AECOM, Inc.

Job Number: 480-3472-1

Client Sample ID: MW-43
 Lab Sample ID: 480-3472-3
 Client Matrix: Ground Water

Date Sampled: 04/07/2011 1345
 Date Received: 04/07/2011 1610

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-12039 Instrument ID: HP5975T
 Prep Method: 5030B Prep Batch: N/A Lab File ID: T6847.D
 Dilution: 1.0 Initial Weight/Volume: 1 uL
 Analysis Date: 04/14/2011 1614 Final Weight/Volume: 1 uL
 Prep Date: 04/14/2011 1614

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	15		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	7.4		0.31	1.0
1,1-Dichloroethane	13		0.38	1.0
1,1-Dichloroethene	3.5 J		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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	3.3	J	1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	13		3.0	10
Benzene	ND UJ		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	1.1		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	12		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	34		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND UJ		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	0.69	J	0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	1.5		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	15		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-3472-1

Client Sample ID: MW-43
Lab Sample ID: 480-3472-3
Client Matrix: Ground Water

Date Sampled: 04/07/2011 1345
Date Received: 04/07/2011 1610

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-12039 Instrument ID: HP5975T
Prep Method: 5030B Prep Batch: N/A Lab File ID: T6847.D
Dilution: 1.0 Initial Weight/Volume: 1 uL
Analysis Date: 04/14/2011 1614 Final Weight/Volume: 1 uL
Prep Date: 04/14/2011 1614

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	19		0.90	1.0
Xylenes, Total	1.7	J	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		66 - 137
Toluene-d8 (Surr)	94		71 - 126
4-Bromofluorobenzene (Surr)	97		73 - 120

Support Documentation

Temperature on Receipt

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1/07)

Client: **AECOM**

Project Manager: **Dino Zack**

Address: **100 Corp. Pkwy Suite 341** State: **NY** Zip Code: **14826**

City: **Amherst**

Project Name and Location (State): **Scott Airtion - BCP, Lancaster NY**

Contract/Purchase Order/Quote No.:

Telephone Number (Area Code)/Fax Number: **716-876-4506**

Site Contact: **Dino Zack** Lab Contact: **Brian Fischer**

Chain of Custody Number: **188780**

Date: **4-7-11** Page: **1** of **1**

Sample ID No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix		Containers & Preservatives		Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
			1	2	1	2		
MW-42	4-7-11	14:45	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
MW-43	4-7-11	13:45	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
TRIP BLANK	4-7-11		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Duplicate - BCP	4-7-11	16:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Sample Disposal: Return to Client Unknown Recycled By Lab Archive For _____ Months (All you may be assessed if samples are retained longer than 1 month)

Possible Hazard Identification: Non-Hazardous Flammable Skin Irritant Persistent 21 Days 14 Days 48 Hours 14 Days

1. Requisitioned By: *[Signature]* Date: **4-7-11** Time: **16:10**

2. Requisitioned By: *[Signature]* Date: **4-7-11** Time: **16:10**

3. Requisitioned By: *[Signature]* Date: **4-7-11** Time: **16:10**

Comments: **60**

DISTRIBUTION: WITH RE. Returned to Client with Response. CANNOT stay with the Sample. PRINT - Hold Copy

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-3472-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-11844/2 Calibration Date: 04/13/2011 10:59
 Instrument ID: HP5973C Calib Start Date: 03/21/2011 16:50
 GC Column: ZB-624 (30) ID: 0.53 (mm) Calib End Date: 03/21/2011 18:57
 Lab File ID: C9860.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3057	0.3152		25.8	25.0	3.1	50.0
Chloromethane	Lin1F		0.4146	0.1000	28.8	25.0	15.2	50.0
Vinyl chloride	Ave	0.4169	0.4423		26.5	25.0	6.1	20.0
Bromomethane	Lin1F		0.3108		31.3	25.0	25.1	50.0
Chloroethane	Ave	0.2493	0.2808		28.2	25.0	12.6	50.0
Trichlorofluoromethane	Ave	0.4749	0.4859		25.6	25.0	2.3	50.0
Acrolein	Ave	0.0269	0.0199		371	500	-25.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3085	0.3149		25.5	25.0	2.1	50.0
1,1-Dichloroethene	Ave	0.2982	0.2770	0.1000	23.2	25.0	-7.1	20.0
Acetone	Ave	0.1182	0.0995		105	125	-15.9	50.0
Iodomethane	Ave	0.4130	0.3964		24.0	25.0	-4.0	50.0
Carbon disulfide	Ave	0.9929	0.9422		23.7	25.0	-5.1	50.0
Methyl acetate	Ave	0.3352	0.3176		23.7	25.0	-5.3	50.0
Acetonitrile	Ave	0.0260	0.0230		887	1000	-11.3	50.0
Methylene Chloride	Ave	0.3571	0.3404		23.8	25.0	-4.7	50.0
Methyl tert-butyl ether	Ave	0.9557	0.8935		23.4	25.0	-6.5	50.0
Acrylonitrile	Ave	0.1351	0.1212		112	125	-10.3	50.0
trans-1,2-Dichloroethene	Ave	0.3340	0.3249		24.3	25.0	-2.7	50.0
Vinyl acetate	Ave	0.5413	0.6167		142	125	13.9	50.0
1,1-Dichloroethane	Ave	0.5809	0.6089		26.2	25.0	4.8	50.0
2-Butanone (MEK)	Ave	0.1718	0.1475		107	125	-14.2	50.0
2,2-Dichloropropane	Ave	0.3872	0.4857		31.4	25.0	25.4	50.0
cis-1,2-Dichloroethene	Ave	0.3675	0.3510		23.9	25.0	-4.5	50.0
Bromochloromethane	Ave	0.1746	0.1696		24.3	25.0	-2.9	50.0
Chloroform	Ave	0.6125	0.5983		24.4	25.0	-2.3	20.0
Tetrahydrofuran	Ave	0.1057	0.0930		110	125	-12.1	50.0
1,1,1-Trichloroethane	Ave	0.4712	0.5016		26.6	25.0	6.5	50.0
Cyclohexane	Ave	0.5687	0.5732		25.2	25.0	0.8	50.0
1,1-Dichloropropene	Ave	0.4366	0.4343		24.9	25.0	-0.5	50.0
Carbon tetrachloride	Ave	0.3630	0.4367		30.1	25.0	20.3	50.0
Benzene	Ave	1.266	1.283		25.3	25.0	1.4	50.0
1,2-Dichloroethane	Ave	0.4907	0.4884		24.9	25.0	-0.5	50.0
Trichloroethene	Ave	0.3422	0.3237		23.7	25.0	-5.4	50.0
Methylcyclohexane	Ave	0.5390	0.5295		24.6	25.0	-1.8	50.0
1,2-Dichloropropane	Ave	0.3176	0.3330		26.2	25.0	4.8	20.0
Dibromomethane	Ave	0.2189	0.2055		23.5	25.0	-6.1	50.0
Bromodichloromethane	Ave	0.4182	0.4366		26.1	25.0	4.4	50.0
2-Chloroethyl vinyl ether	Ave	0.1715	0.1640		120	125	-4.4	50.0
cis-1,3-Dichloropropene	Ave	0.4396	0.4942		28.1	25.0	12.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6308	0.5501		109	125	-12.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-3472-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-11844/2 Calibration Date: 04/13/2011 10:59
 Instrument ID: HP5973C Calib Start Date: 03/21/2011 16:50
 GC Column: ZB-624 (30) ID: 0.53 (mm) Calib End Date: 03/21/2011 18:57
 Lab File ID: C9860.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.431	1.369		23.9	25.0	-4.3	20.0
Ethyl methacrylate	Ave	0.6266	0.6011		24.0	25.0	-4.1	50.0
trans-1,3-Dichloropropene	Ave	0.7083	0.8231		29.1	25.0	16.2	50.0
1,1,2-Trichloroethane	Ave	0.4532	0.4390		24.2	25.0	-3.1	50.0
2-Hexanone	Ave	0.4382	0.3778		108	125	-13.8	50.0
Tetrachloroethene	Ave	0.6150	0.6241		25.4	25.0	1.5	50.0
1,3-Dichloropropane	Ave	0.9041	0.8711		24.1	25.0	-3.7	50.0
Dibromochloromethane	Ave	0.5244	0.5504		26.2	25.0	5.0	50.0
1,2-Dibromoethane	Ave	0.5416	0.5104		23.6	25.0	-5.8	50.0
Chlorobenzene	Ave	1.558	1.515	0.3000	24.3	25.0	-2.7	50.0
Ethylbenzene	Ave	2.778	2.632		23.7	25.0	-5.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4737	0.5438		28.7	25.0	14.8	50.0
m,p-Xylene	Ave	1.076	1.044		48.5	50.0	-3.0	50.0
o-Xylene	Ave	1.055	1.003		23.8	25.0	-5.0	50.0
Styrene	Ave	1.607	1.612		25.1	25.0	0.3	50.0
Isopropylbenzene	Ave	2.797	2.606		23.3	25.0	-6.9	50.0
Bromoform	Ave	0.3182	0.3580	0.1000	28.1	25.0	12.5	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7593	0.6946	0.3000	22.9	25.0	-8.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2137	0.2195		128	125	2.7	50.0
N-Propylbenzene	Ave	3.454	3.386		24.5	25.0	-1.9	50.0
1,2,3-Trichloropropane	Ave	0.2263	0.2099		23.2	25.0	-7.3	50.0
Bromobenzene	Ave	0.6994	0.6846		24.5	25.0	-2.1	50.0
1,3,5-Trimethylbenzene	Ave	2.294	2.170		23.7	25.0	-5.4	50.0
2-Chlorotoluene	Ave	0.6506	0.6209		23.9	25.0	-4.6	50.0
4-Chlorotoluene	Ave	0.6502	0.6441		24.8	25.0	-0.9	50.0
tert-Butylbenzene	Ave	0.4878	0.4550		23.3	25.0	-6.7	50.0
1,2,4-Trimethylbenzene	Ave	2.386	2.257		23.6	25.0	-5.4	50.0
sec-Butylbenzene	Ave	3.047	2.901		23.8	25.0	-4.8	50.0
4-Isopropyltoluene	Ave	2.390	2.295		24.0	25.0	-4.0	50.0
1,3-Dichlorobenzene	Ave	1.339	1.312		24.5	25.0	-2.0	50.0
1,4-Dichlorobenzene	Ave	1.379	1.328		24.1	25.0	-3.7	50.0
n-Butylbenzene	Ave	2.366	2.230		23.6	25.0	-5.8	50.0
1,2-Dichlorobenzene	Ave	1.318	1.248		23.7	25.0	-5.3	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1202	0.1090		22.7	25.0	-9.3	50.0
1,2,4-Trichlorobenzene	Ave	0.9633	0.8691		22.6	25.0	-9.8	50.0
Hexachlorobutadiene	Ave	0.4131	0.4125		25.0	25.0	-0.2	50.0
Naphthalene	Ave	2.611	2.031		19.4	25.0	-22.2	50.0
1,2,3-Trichlorobenzene	Ave	0.9397	0.8434		22.4	25.0	-10.3	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2010	0.1941		24.1	25.0	-3.4	50.0
Toluene-d8 (Surr)	Ave	2.108	2.009		23.8	25.0	-4.7	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7071	0.6264		22.1	25.0	-11.4	50.0

Data Usability Summary Report

Prepared by: Helen Jones, AECOM Project Chemist

Prepared for: Dino Zack, AECOM Project Manager

Project: Scott Aviation Investigation, June 2011

Date prepared: June 2011

This Data Usability Summary Report (DUSR) provides a discussion of the usability of the data collected during investigation activities at the Scott Aviation facility located in Lancaster, NY. Our overall conclusion is that the data are usable for the intended purpose of assessing site conditions relative to regulatory screening values and available background data.

Data validation of the full dataset was completed in June 2011. The data packages were reviewed using the following USEPA Region 2 data validation Standard Operating Procedure (SOP) as guidance:

- USEPA Region 2, SOP HW-6, CLP Organics Data Review and Preliminary Review (CLP/SOW OLM0 4.3) [Revision 14, September 2006].

Where necessary, the Region 2 SOPs were modified to incorporate project-specific or method-specific criteria. Data qualifiers applied were consistent with the Region 2 guidance and consisted of the following:

Qualifier	Definition
J	Estimated
U	Not detected
UJ	Not detected, estimated
JN	Presumptively present at estimated quantity
R	Rejected

Elements reviewed in preparing the DUSR were consistent with those specified in the NYSDEC guidance (NYSDEC, 2001).

Summary

Seven aqueous samples were collected at the site on June 1, 2011 and June 16, 2011 and submitted to Test America Laboratory, Amherst, NY, a New York State certified laboratory (NYSDOH ELAP No. 10026). All analyses conducted by Test America were performed in accordance with New York State Department of Environmental Conservation (NYSDEC) 2000 Analytical Services Protocol (ASP 2000) with Category B deliverables. The analytical methods used in this program are summarized in Table 1.

Table 1: Analytical Procedures

Analysis Category	Analytical Method
Volatile Organics (VOCs)	EPA SW-846 Method 8260B, NYSDEC ASP 2000

Table 2: Sample Submittals

Field ID	Test America ID	Matrix	Date Sampled
MW-44S-06/01/2011	480-5581-1	Aqueous	6/01/2011
TP-5-06/01/2011	480-5581-2	Aqueous	6/01/2011
CB-1-06/01/2011	480-5581-4	Aqueous	6/01/2011
MW-94-S-06/01/2011 ²	480-5581-5	Aqueous	6/01/2011
RINSE-06/01/2011	480-5581-6	Aqueous (QC)	6/01/2011
TRIP-5-06/01/2011 ¹	480-5581-7TB	Aqueous (QC)	6/01/2011
CB-1 061611	480-6205-1	Aqueous	6/16/2011
CB-W 061611	480-6205-2	Aqueous	6/16/2011
CB-E 061611	480-6205-3	Aqueous	6/16/2011
TRIP BLANK ¹	480-6205-4TB	Aqueous (QC)	6/16/2011

(1): The trip blank samples were submitted for volatiles analysis only.

(2): Sample was a field duplicate. The samples were associated as follows.

Parent	Duplicate	Matrix
MW-44S-06/01/2011	MW-94-S-06/01/2011	Aqueous

Two trip blanks and one equipment rinse blank accompanied the groundwater samples and were analyzed for VOCs. These data were reviewed in the same manner as the field samples. However, qualifications applied to these samples are not included in the discussion below.

The attachment to this DUSR provides a complete listing of samples and collection dates; summary of qualified data; and copies of nonconformances.

Aqueous Data

The nonconformances associated with the aqueous analyses were minimal. All aqueous results may be considered usable for decision making purposes.

Volatile Organic Compounds

In general, the VOC data appear to be valid, and may be considered usable for decision making purposes. No VOC data were rejected.

Holding Times

All VOC holding times were met.

Sample Preservation

All VOC samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of nonconformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and did not contain any detections.

Surrogates – Surrogate recoveries were acceptable.

Internal Standard Recoveries – Internal standard recoveries were acceptable.

Calibrations – Calibrations were acceptable with the following exceptions: The continuing calibration percent differences (%Ds) for dichlorodifluoromethane, bromomethane, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane, carbon disulfide, and carbon tetrachloride were greater than the quality control limit of 20% on 06/08/11 at 09:06 on instrument HP5973J. Sensitivity increased with respect to the initial calibration average relative response factor. All aqueous samples in SDG J5581 were affected. The associated positive results were qualified “J,” as estimates, due to high instrument bias. Non-detect results in the associated samples did not require qualification in response to the high instrument bias.

The continuing calibration %Ds for chloromethane, bromomethane, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone, and 2-hexanone were greater than the quality control limit of 20% on 06/22/11 at 10:30 on instrument HP5973T. Sensitivity increased with respect to the initial calibration average relative response factor. All samples in SDG J6205 were affected. The associated positive results were qualified “J,” as estimates, due to high instrument bias. Non-detect results in the associated samples did not require qualification in response to the high instrument bias.

Laboratory Control Samples – Laboratory control sample (LCS) %Rs were acceptable.

Detection Limits and Sample Results

In sample CB-1-06/01/2011 of SDG J5581, analytical dilutions were necessary to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range. The surrogate recoveries were acceptable. No data qualifications were required.

Samples CB-1 06162011 and CB-E 06162011 of SDG J6205 required analytical dilutions to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range. The surrogate recoveries were acceptable. No data qualifications were required.

Sample CB-W 06162011 of SDG J6205 required analysis at an initial dilution because of matrix interference due to foaming. The surrogate recoveries were acceptable. No data qualifications were required.

Field Duplicates

The samples listed in the table below were the parent and field duplicate samples collected for this sampling event.

Parent Sample	Field Duplicate	Matrix
MW-44S-06/01/2011	MW-94-S-06/01/2011	Groundwater

Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be $\leq 30\%$ for aqueous samples or the difference between the parent and field duplicate results must be less than the reporting limit for results less than five times the reporting limit.

The results for the parent and field duplicate samples were non-detects, with exception to those listed in Table 3 below. All RPDs were less than the maximum advisory limits or the difference criteria were met for all analytes/compounds except for those results listed below in bolded text. The bolded results were qualified "J/UJ," as estimates because of laboratory/field sampling imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

%RPD: Relative percent difference

NC: RPD could not be calculated

*: The difference between the parent and field duplicate results was less than the reporting limit (twice the reporting limit for metals) for results less than five times the reporting limit. Variation of this magnitude is acceptable.

$\mu\text{g/L}$: micrograms per liter (ppb)

mg/L : milligrams per liter (ppm)

%: percent

Table 3 - Scott Aviation Field Precision

Method	Compound	MW-44S-06/01/2011	MW-94-S-06/01/2011	Units	% RPD
8260B	Chloroform	ND	0.46 J	$\mu\text{g/L}$	NC

Completeness of Deliverables

The data were reported as NYSDEC ASP Category B deliverables. No significant omissions or deficiencies were noted.

Conclusions

The data are valid as reported and may be used for decision making purposes. No data points were rejected (R) though some were qualified as estimated (J) based on certain QC nonconformances as described in the sections above.

Several results were estimated below the reporting limit and qualified “J” by the laboratory. These qualifiers were maintained in the data validation.

Attachments to Data Usability Summary Report (DUSR)

Analytical Data

Client: AECOM, Inc.

Job Number: 480-5581-1

Client Sample ID: MW-94-S-06/01/2011

Lab Sample ID: 480-5581-5

Date Sampled: 06/01/2011 0800

Client Matrix: Water

Date Received: 06/02/2011 1315

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-19067	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0809.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/08/2011 1444			Final Weight/Volume:	5 mL
Prep Date:	06/08/2011 1444				

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-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
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
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	0.46	J	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
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

Analytical Data

Client: AECOM, Inc.

Job Number: 480-5581-1

Client Sample ID: MW-94-S-06/01/2011

Lab Sample ID: 480-5581-5

Date Sampled: 06/01/2011 0800

Client Matrix: Water

Date Received: 06/02/2011 1315

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-19067	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0809.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/08/2011 1444			Final Weight/Volume:	5 mL
Prep Date:	06/08/2011 1444				

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)	133		66 - 137
Toluene-d8 (Surr)	101		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-5581-1

Client Sample ID: MW-44S-06/01/2011

Lab Sample ID: 480-5581-1

Date Sampled: 06/01/2011 1105

Client Matrix: Ground Water

Date Received: 06/02/2011 1315

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-19067	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0806.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/08/2011 1338			Final Weight/Volume:	5 mL
Prep Date:	06/08/2011 1338				

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-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
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
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND 1.0 uJ		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
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

Analytical Data

Client: AECOM, Inc.

Job Number: 480-5581-1

Client Sample ID: MW-44S-06/01/2011

Lab Sample ID: 480-5581-1

Date Sampled: 06/01/2011 1105

Client Matrix: Ground Water

Date Received: 06/02/2011 1315

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-19067	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0806.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/08/2011 1338			Final Weight/Volume:	5 mL
Prep Date:	06/08/2011 1338				

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)	124		66 - 137
Toluene-d8 (Surr)	97		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-5581-1

Client Sample ID: TP-5-06/01/2011

Lab Sample ID: 480-5581-2

Date Sampled: 06/01/2011 1000

Client Matrix: Water

Date Received: 06/02/2011 1315

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-19067	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0807.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/08/2011 1400			Final Weight/Volume:	5 mL
Prep Date:	06/08/2011 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	83		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	60 J		0.31	1.0
1,1-Dichloroethane	12		0.38	1.0
1,1-Dichloroethene	7.2		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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
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
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	23		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	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	8.8		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-5581-1

Client Sample ID: TP-5-06/01/2011

Lab Sample ID: 480-5581-2

Date Sampled: 06/01/2011 1000

Client Matrix: Water

Date Received: 06/02/2011 1315

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-19067	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0807.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/08/2011 1400			Final Weight/Volume:	5 mL
Prep Date:	06/08/2011 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1.6		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	127		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	96		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-5581-1

Client Sample ID: CB-1-06/01/2011

Lab Sample ID: 480-5581-4

Date Sampled: 06/01/2011 0950

Client Matrix: Water

Date Received: 06/02/2011 1315

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-19067	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0808.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/08/2011 1422			Final Weight/Volume:	5 mL
Prep Date:	06/08/2011 1422				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	480 420	E	0.82 1.6	1.0 2.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	1.6		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	360 400J	E	0.31 6.2	1.0 2.0
1,1-Dichloroethane	53		0.38	1.0
1,1-Dichloroethene	41		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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	61		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
Dibromochloromethane	ND		0.32	1.0
Chloroethane	2.8		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	140	E	0.81 1.6	1.0 2.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	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	0.50	J	0.36	1.0
Toluene	1.9		0.51	1.0
trans-1,2-Dichloroethene	1.8		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	59		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-5581-1

Client Sample ID: CB-1-06/01/2011

Lab Sample ID: 480-5581-4

Date Sampled: 06/01/2011 0950

Client Matrix: Water

Date Received: 06/02/2011 1315

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-19067	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0808.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/08/2011 1422			Final Weight/Volume:	5 mL
Prep Date:	06/08/2011 1422				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	8.4		0.90	1.0
Xylenes, Total	1.0	J	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	124		66 - 137
Toluene-d8 (Surr)	100		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-5581-1

Client Sample ID: CB-1-06/01/2011

Lab Sample ID: 480-5581-4

Date Sampled: 06/01/2011 0950

Client Matrix: Water

Date Received: 06/02/2011 1315

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-19067	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0821.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	06/08/2011 1910	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	06/08/2011 1910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	420		16	20
1,1,2,2-Tetrachloroethane	ND		4.2	20
1,1,2-Trichloroethane	ND		4.6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	400		6.2	20
1,1-Dichloroethane	52		7.6	20
1,1-Dichloroethene	48		5.8	20
1,2,4-Trichlorobenzene	ND		8.2	20
1,2-Dibromo-3-Chloropropane	ND		7.8	20
1,2-Dibromoethane	ND		15	20
1,2-Dichlorobenzene	ND		16	20
1,2-Dichloroethane	ND		4.2	20
1,2-Dichloropropane	ND		14	20
1,3-Dichlorobenzene	ND		16	20
1,4-Dichlorobenzene	ND		17	20
2-Hexanone	ND		25	100
2-Butanone (MEK)	ND		26	200
4-Methyl-2-pentanone (MIBK)	ND		42	100
Acetone	84	J	60	200
Benzene	ND		8.2	20
Bromodichloromethane	ND		7.8	20
Bromoform	ND		5.2	20
Bromomethane	ND		14	20
Carbon disulfide	ND		3.8	20
Carbon tetrachloride	ND		5.4	20
Chlorobenzene	ND		15	20
Dibromochloromethane	ND		6.4	20
Chloroethane	ND		6.4	20
Chloroform	ND		6.8	20
Chloromethane	ND		7.0	20
cis-1,2-Dichloroethene	140		16	20
cis-1,3-Dichloropropene	ND		7.2	20
Cyclohexane	ND		3.6	20
Dichlorodifluoromethane	ND		14	20
Ethylbenzene	ND		15	20
Isopropylbenzene	ND		16	20
Methyl acetate	ND		10	20
Methyl tert-butyl ether	ND		3.2	20
Methylcyclohexane	ND		3.2	20
Methylene Chloride	ND		8.8	20
Styrene	ND		15	20
Tetrachloroethene	ND		7.2	20
Toluene	ND		10	20
trans-1,2-Dichloroethene	ND		18	20
trans-1,3-Dichloropropene	ND		7.4	20
Trichloroethene	58		9.2	20
Trichlorofluoromethane	ND		18	20

Analytical Data

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-1 061611

Lab Sample ID: 480-6205-1

Date Sampled: 06/16/2011 1315

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-21049	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T8809.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2011 1219			Final Weight/Volume:	5 mL
Prep Date:	06/22/2011 1219				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	130 120	E	0.82 3.3	1.0 4.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	0.87	J	0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	230 220	E	0.31 1.2	1.0 4.0
1,1-Dichloroethane	18		0.38	1.0
1,1-Dichloroethene	14		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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	390 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
Dibromochloromethane	ND		0.32	1.0
Chloroethane	0.60	J	0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	51		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	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		0.38	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	1.5		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	18		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-1 061611

Lab Sample ID: 480-6205-1

Date Sampled: 06/16/2011 1315

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-21049	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T8809.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2011 1219			Final Weight/Volume:	5 mL
Prep Date:	06/22/2011 1219				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1.4		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
Toluene-d8 (Surr)	97		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-1 061611

Lab Sample ID: 480-6205-1

Date Sampled: 06/16/2011 1315

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-21049 Instrument ID: HP5975T
 Prep Method: 5030B Prep Batch: N/A Lab File ID: T8813.D
 Dilution: 4.0 Run Type: DL Initial Weight/Volume: 5 mL
 Analysis Date: 06/22/2011 1353 Final Weight/Volume: 5 mL
 Prep Date: 06/22/2011 1353

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	120		3.3	4.0
1,1,2,2-Tetrachloroethane	ND		0.84	4.0
1,1,2-Trichloroethane	ND		0.92	4.0
1,1,2-Trichloro-1,2,2-trifluoroethane	220		1.2	4.0
1,1-Dichloroethane	19		1.5	4.0
1,1-Dichloroethene	15		1.2	4.0
1,2,4-Trichlorobenzene	ND		1.6	4.0
1,2-Dibromo-3-Chloropropane	ND		1.6	4.0
1,2-Dibromoethane	ND		2.9	4.0
1,2-Dichlorobenzene	ND		3.2	4.0
1,2-Dichloroethane	ND		0.84	4.0
1,2-Dichloropropane	ND		2.9	4.0
1,3-Dichlorobenzene	ND		3.1	4.0
1,4-Dichlorobenzene	ND		3.4	4.0
2-Hexanone	ND		5.0	20
2-Butanone (MEK)	ND		5.3	40
4-Methyl-2-pentanone (MIBK)	ND		8.4	20
Acetone	470		12	40
Benzene	ND		1.6	4.0
Bromodichloromethane	ND		1.6	4.0
Bromoform	ND		1.0	4.0
Bromomethane	ND		2.8	4.0
Carbon disulfide	ND		0.76	4.0
Carbon tetrachloride	ND		1.1	4.0
Chlorobenzene	ND		3.0	4.0
Dibromochloromethane	ND		1.3	4.0
Chloroethane	ND		1.3	4.0
Chloroform	ND		1.4	4.0
Chloromethane	ND		1.4	4.0
cis-1,2-Dichloroethene	54		3.2	4.0
cis-1,3-Dichloropropene	ND		1.4	4.0
Cyclohexane	ND		0.72	4.0
Dichlorodifluoromethane	ND		2.7	4.0
Ethylbenzene	ND		3.0	4.0
Isopropylbenzene	ND		3.2	4.0
Methyl acetate	ND		2.0	4.0
Methyl tert-butyl ether	ND		0.64	4.0
Methylcyclohexane	ND		0.64	4.0
Methylene Chloride	ND		1.8	4.0
Styrene	ND		2.9	4.0
Tetrachloroethene	ND		1.4	4.0
Toluene	ND		2.0	4.0
trans-1,2-Dichloroethene	ND		3.6	4.0
trans-1,3-Dichloropropene	ND		1.5	4.0
Trichloroethene	17		1.8	4.0
Trichlorofluoromethane	ND		3.5	4.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-1 061611

Lab Sample ID: 480-6205-1

Date Sampled: 06/16/2011 1315

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-21049	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T8813.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2011 1353	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	06/22/2011 1353				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		3.6	4.0
Xylenes, Total	ND		2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		66 - 137
Toluene-d8 (Surr)	102		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-W 061611

Lab Sample ID: 480-6205-2

Date Sampled: 06/16/2011 1330

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-21049	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T8810.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2011 1242			Final Weight/Volume:	5 mL
Prep Date:	06/22/2011 1242				

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-Trichloroethane	ND		1.2	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.6	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-Hexanone	ND		6.2	25
2-Butanone (MEK)	ND		6.6	50
4-Methyl-2-pentanone (MIBK)	ND		11	25
Acetone	15	J	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
Dibromochloromethane	ND		1.6	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
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	61		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

Analytical Data

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-W 061611

Lab Sample ID: 480-6205-2

Date Sampled: 06/16/2011 1330

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-21049	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T8810.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2011 1242			Final Weight/Volume:	5 mL
Prep Date:	06/22/2011 1242				

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)	108		66 - 137
Toluene-d8 (Surr)	101		71 - 126
4-Bromofluorobenzene (Surr)	104		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-E 061611

Lab Sample ID: 480-6205-3

Date Sampled: 06/16/2011 1345

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-21049	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T8811.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/22/2011 1306			Final Weight/Volume:	5 mL
Prep Date:	06/22/2011 1306				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	250 230	E	0.82 21	1.0 25
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	10		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	150 140	E	0.31 7.8	1.0 25
1,1-Dichloroethane	110	E	0.38 9.5	1.0 25
1,1-Dichloroethene	93		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	2.0		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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	0.70	J	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
Dibromochloromethane	ND		0.32	1.0
Chloroethane	10		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	1200	E	0.81 20	1.0 25
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	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	1.2		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	8.8		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	4.6		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	60		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-E 061611

Lab Sample ID: 480-6205-3

Date Sampled: 06/16/2011 1345

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 480-21049	Instrument ID: HP5975T
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: T8811.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 06/22/2011 1306		Final Weight/Volume: 5 mL
Prep Date: 06/22/2011 1306		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	22		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
Toluene-d8 (Surr)	102		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-E 061611

Lab Sample ID: 480-6205-3

Date Sampled: 06/16/2011 1345

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-21049 Instrument ID: HP5975T
 Prep Method: 5030B Prep Batch: N/A Lab File ID: T8814.D
 Dilution: 25 Initial Weight/Volume: 5 mL
 Analysis Date: 06/22/2011 1416 Run Type: DL Final Weight/Volume: 5 mL
 Prep Date: 06/22/2011 1416

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	230		21	25
1,1,2,2-Tetrachloroethane	ND		5.3	25
1,1,2-Trichloroethane	ND		5.8	25
1,1,2-Trichloro-1,2,2-trifluoroethane	140		7.8	25
1,1-Dichloroethane	110		9.5	25
1,1-Dichloroethene	88		7.3	25
1,2,4-Trichlorobenzene	ND		10	25
1,2-Dibromo-3-Chloropropane	ND		9.8	25
1,2-Dibromoethane	ND		18	25
1,2-Dichlorobenzene	ND		20	25
1,2-Dichloroethane	ND		5.3	25
1,2-Dichloropropane	ND		18	25
1,3-Dichlorobenzene	ND		20	25
1,4-Dichlorobenzene	ND		21	25
2-Hexanone	ND		31	130
2-Butanone (MEK)	ND		33	250
4-Methyl-2-pentanone (MIBK)	ND		53	130
Acetone	ND		75	250
Benzene	ND		10	25
Bromodichloromethane	ND		9.8	25
Bromoform	ND		6.5	25
Bromomethane	ND		17	25
Carbon disulfide	ND		4.8	25
Carbon tetrachloride	ND		6.8	25
Chlorobenzene	ND		19	25
Dibromochloromethane	ND		8.0	25
Chloroethane	14	J	8.0	25
Chloroform	ND		8.5	25
Chloromethane	ND		8.8	25
cis-1,2-Dichloroethene	1200		20	25
cis-1,3-Dichloropropene	ND		9.0	25
Cyclohexane	ND		4.5	25
Dichlorodifluoromethane	ND		17	25
Ethylbenzene	ND		19	25
Isopropylbenzene	ND		20	25
Methyl acetate	ND		13	25
Methyl tert-butyl ether	ND		4.0	25
Methylcyclohexane	ND		4.0	25
Methylene Chloride	ND		11	25
Styrene	ND		18	25
Tetrachloroethene	ND		9.0	25
Toluene	ND		13	25
trans-1,2-Dichloroethene	ND		23	25
trans-1,3-Dichloropropene	ND		9.3	25
Trichloroethene	56		12	25
Trichlorofluoromethane	ND		22	25

Analytical Data

Client: AECOM, Inc.

Job Number: 480-6205-1

Client Sample ID: CB-E 061611

Lab Sample ID: 480-6205-3

Date Sampled: 06/16/2011 1345

Client Matrix: Water

Date Received: 06/16/2011 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-21049 Instrument ID: HP5975T
Prep Method: 5030B Prep Batch: N/A Lab File ID: T8814.D
Dilution: 25 Initial Weight/Volume: 5 mL
Analysis Date: 06/22/2011 1416 Run Type: DL Final Weight/Volume: 5 mL
Prep Date: 06/22/2011 1416

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		23	25
Xylenes, Total	ND		17	50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	105		73 - 120

Support Documentation

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 480-5581-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-5581-1	MW-44S-06/01/2011	Ground Water	06/01/2011 1105	06/02/2011 1315
480-5581-2	TP-5-06/01/2011	Water	06/01/2011 1000	06/02/2011 1315
480-5581-3	IDW-2-06/01/2011	Solid	06/01/2011 1400	06/02/2011 1315
480-5581-4	CB-1-06/01/2011	Water	06/01/2011 0950	06/02/2011 1315
480-5581-5	MW-94-S-06/01/2011	Water	06/01/2011 0800	06/02/2011 1315
480-5581-6	RINSE-06/01/2011	Water	06/01/2011 1200	06/02/2011 1315
480-5581-7TB	TRIP-5-06/01/2011	Water	06/01/2011 0000	06/02/2011 1315

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **AECOM** Project Manager: **Dino Zack** Date: **6/1/11** Chain of Custody Number: **1049059**

Address: **100 Carpenter Pkwy, Suite 341** Telephone Number (Area Code)/Fax Number: **716-836-4506** Lab Number: **Buffalo** Page: **1** of **1**

City: **Amherst** State: **NY** Zip Code: **14226** Site Contact: **D. Zack** Lab Contact: **B. Fischer** Analysis (Attach list if more space is needed)

Project Name and Location (State): **So. A BCP** Carrier/Hubbill Number: _____

Contract/Purchase Order/Quote No: _____

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives			Special Instructions/ Conditions of Receipt
			1	2	3	1	2	3	
MW-445-06/01/2011	06/01/11	1105	X			3			
TP-5-06/01/2011	06/01/11	1000	X			3			
LDW-2-06/01/2011	06/01/11	1400		X		3			
CB-1-06/01/2011	06/01/11	0950	Y			3			
MW-94-S-06/01/2011	06/01/11	0800	X			3			
Rinse-06/01/2011	06/01/11	1200	X			3			
Trip-06/01/2011	06/01/11		X			3			

82608
60106,8220C

Possible Hazard (Identify each):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Dispose By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 7 months)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **STD**

Requested By: **Dino Zack** Date: **06/01/11** Time: **1500ws**
 Received By: **[Signature]** Date: **06-02-11** Time: **13:00**

Requested By: **[Signature]** Date: **06-02-11** Time: **15:15**
 Received By: **[Signature]** Date: **06-02-11** Time: **15:15**

Comments: **3.22**

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-5581-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-19067/2 Calibration Date: 06/08/2011 09:06
 Instrument ID: HP5973J Calib Start Date: 05/05/2011 10:31
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 05/05/2011 13:43
 Lab File ID: J0795.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2448	0.3088		31.5	25.0	26.1	50.0
Chloromethane	Ave	0.2778	0.2761	0.1000	24.9	25.0	-0.6	50.0
Vinyl chloride	Ave	0.2394	0.2508		26.2	25.0	4.7	20.0
Bromomethane	QuaF		0.1226		36.2	25.0	44.8	50.0
Chloroethane	Ave	0.1421	0.1527		26.9	25.0	7.4	50.0
Trichlorofluoromethane	Ave	0.3311	0.4570		34.5	25.0	38.0	50.0
Acrolein	Ave	0.0380	0.0146		192	500	-61.5*	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1913	0.2623		34.3	25.0	37.1	50.0
1,1-Dichloroethene	Ave	0.2466	0.2662	0.1000	27.0	25.0	7.9	20.0
Acetone	Lin1F		0.1201		143	125	14.3	50.0
Iodomethane	Ave	0.2958	0.3418		28.9	25.0	15.6	50.0
Carbon disulfide	Ave	0.6562	0.7959		30.3	25.0	21.3	50.0
Methyl acetate	Ave	0.3806	0.3891		25.6	25.0	2.2	50.0
Acetonitrile	Ave	0.0253	0.0252		995	1000	-0.5	50.0
Methylene Chloride	LinF		0.2989		26.9	25.0	7.6	50.0
Methyl tert-butyl ether	Ave	0.8435	0.8426		25.0	25.0	-0.1	50.0
Acrylonitrile	Ave	0.1337	0.1264		118	125	-5.4	50.0
trans-1,2-Dichloroethene	Ave	0.2725	0.2908		26.7	25.0	6.7	50.0
Vinyl acetate	Ave	0.6173	0.6156		125	125	-0.3	50.0
1,1-Dichloroethane	Ave	0.4844	0.5186		26.8	25.0	7.1	50.0
2-Butanone (MEK)	Ave	0.1758	0.1742		124	125	-0.9	50.0
2,2-Dichloropropane	Ave	0.3753	0.4026		26.8	25.0	7.3	50.0
cis-1,2-Dichloroethene	Ave	0.2953	0.3201		27.1	25.0	8.4	50.0
Bromochloromethane	Ave	0.1430	0.1558		27.2	25.0	8.9	50.0
Tetrahydrofuran	Ave	0.1212	0.1121		116	125	-7.5	50.0
Chloroform	Ave	0.4612	0.5189		28.1	25.0	12.5	20.0
1,1,1-Trichloroethane	Ave	0.3886	0.4650		29.9	25.0	19.7	50.0
Cyclohexane	Ave	0.5115	0.5342		26.1	25.0	4.4	50.0
1,1-Dichloropropene	Ave	0.3524	0.3837		27.2	25.0	8.9	50.0
Carbon tetrachloride	Ave	0.3284	0.4022		30.6	25.0	22.5	50.0
Benzene	Ave	1.106	1.123		25.4	25.0	1.5	50.0
1,2-Dichloroethane	Ave	0.3938	0.4654		29.5	25.0	18.2	50.0
Trichloroethene	Ave	0.2757	0.3029		27.5	25.0	9.9	50.0
Methylcyclohexane	Ave	0.4371	0.4713		27.0	25.0	7.8	50.0
1,2-Dichloropropane	Ave	0.2933	0.2870		24.5	25.0	-2.2	20.0
Dibromomethane	Ave	0.1640	0.1790		27.3	25.0	9.1	50.0
Bromodichloromethane	Ave	0.3445	0.3766		27.3	25.0	9.3	50.0
2-Chloroethyl vinyl ether	Ave	0.2065	0.1971		119	125	-4.5	50.0
cis-1,3-Dichloropropene	Ave	0.4420	0.4452		25.2	25.0	0.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7104	0.6652		117	125	-6.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-5581-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-19067/2 Calibration Date: 06/08/2011 09:06
 Instrument ID: HP5973J Calib Start Date: 05/05/2011 10:31
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 05/05/2011 13:43
 Lab File ID: J0795.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.406	1.397		24.8	25.0	-0.6	20.0
Ethyl methacrylate	Ave	0.7485	0.6599		22.0	25.0	-11.8	50.0
trans-1,3-Dichloropropene	Ave	0.7771	0.8104		26.1	25.0	4.3	50.0
1,1,2-Trichloroethane	Ave	0.4000	0.3910		24.4	25.0	-2.2	50.0
Tetrachloroethene	Ave	0.5722	0.6418		28.0	25.0	12.2	50.0
1,3-Dichloropropane	Ave	0.8160	0.8286		25.4	25.0	1.5	50.0
2-Hexanone	Ave	0.5066	0.4850		120	125	-4.3	50.0
Dibromochloromethane	Ave	0.5048	0.5261		26.1	25.0	4.2	50.0
1,2-Dibromoethane	Ave	0.4887	0.4972		25.4	25.0	1.7	50.0
Chlorobenzene	Ave	1.443	1.539	0.3000	26.7	25.0	6.7	50.0
Ethylbenzene	Ave	2.628	2.701		25.7	25.0	2.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4911	0.5333		27.1	25.0	8.6	50.0
m,p-Xylene	Ave	1.004	1.032		51.4	50.0	2.8	50.0
o-Xylene	Ave	0.9722	0.999		25.7	25.0	2.8	50.0
Styrene	Ave	1.683	1.669		24.8	25.0	-0.8	50.0
Bromoform	Ave	0.3466	0.3167	0.1000	22.8	25.0	-8.6	50.0
Isopropylbenzene	Ave	2.606	2.497		24.0	25.0	-4.2	50.0
1,1,2,2-Tetrachloroethane	Ave	0.6769	0.5880	0.3000	21.7	25.0	-13.1	50.0
Bromobenzene	Ave	0.6530	0.6463		24.7	25.0	-1.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2205	0.2206		125	125	0.0	50.0
1,2,3-Trichloropropane	Ave	0.2123	0.2057		24.2	25.0	-3.1	50.0
N-Propylbenzene	Ave	3.315	3.205		24.2	25.0	-3.3	50.0
2-Chlorotoluene	Ave	0.6083	0.5971		24.5	25.0	-1.8	50.0
1,3,5-Trimethylbenzene	Ave	2.242	2.180		24.3	25.0	-2.8	50.0
4-Chlorotoluene	Ave	0.6369	0.6378		25.0	25.0	0.2	50.0
tert-Butylbenzene	Ave	0.4841	0.4802		24.8	25.0	-0.8	50.0
1,2,4-Trimethylbenzene	Ave	2.261	2.213		24.5	25.0	-2.1	50.0
sec-Butylbenzene	Ave	2.838	2.779		24.5	25.0	-2.1	50.0
4-Isopropyltoluene	Ave	2.403	2.378		24.7	25.0	-1.0	50.0
1,3-Dichlorobenzene	Ave	1.295	1.299		25.1	25.0	0.3	50.0
1,4-Dichlorobenzene	Ave	1.339	1.328		24.8	25.0	-0.8	50.0
n-Butylbenzene	Ave	2.297	2.284		24.9	25.0	-0.6	50.0
1,2-Dichlorobenzene	Ave	1.268	1.259		24.8	25.0	-0.7	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1320	0.1141		21.6	25.0	-13.6	50.0
1,2,4-Trichlorobenzene	Ave	0.9605	0.9366		24.4	25.0	-2.5	50.0
Hexachlorobutadiene	Ave	0.4400	0.4695		26.7	25.0	6.7	50.0
Naphthalene	Ave	2.596	2.233		21.5	25.0	-14.0	50.0
1,2,3-Trichlorobenzene	Ave	0.9056	0.8755		24.2	25.0	-3.3	50.0
1,2-Dichloroethane-d4 (Surr)	QuaF		0.1618		30.8	25.0	23.2	50.0
Toluene-d8 (Surr)	Ave	1.837	1.854		25.2	25.0	0.9	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6095	0.6164		25.3	25.0	1.1	50.0

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 480-6205-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-6205-1	CB-1 061611	Water	06/16/2011 1315	06/16/2011 1630
480-6205-2	CB-W 061611	Water	06/16/2011 1330	06/16/2011 1630
480-6205-3	CB-E 061611	Water	06/16/2011 1345	06/16/2011 1630
480-6205-4TB	Trip Blank	Water	06/16/2011 0000	06/16/2011 1630

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt Yes No
 Drinking Water? Yes No

Chain of Custody Record

1AL-4124 (1/007)

Client: **AECOM** Project Manager: **DINOZACK** Chain of Custody Number: **194691**
 Address: **100 CORP PKWY SUITE 311** Lab Number: **6/16/11**
 City: **SUFFERN** State: **NY** Zip Code: **14220** Lab Contact: **BRIAN FISHER**
 Project Name and Location (State): **SLOTT AVIATION** Carrier/Waybill Number: **DINOZACK**
 Contract/Purchase Order/Quote No. **236-4500 EATIS**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
CB-1 061611	06/16/11	1315	✓												
CB-2 061611	↓	1330	✓												
CB-E 061611	↓	1345	✓												
TRIP BLANK	↓	NA	✓												

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison Unknown
 Return to Client Disposal By Lab Archive For _____ Months (4 for may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 hours 48 hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By: **Samara Raby** Date: **06/16/11** Time: **1630**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: **S.I.P.**

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample. PINK - Field Copy

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-6205-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-21049/2 Calibration Date: 06/22/2011 10:30
 Instrument ID: HP5975T Calib Start Date: 06/14/2011 14:10
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/14/2011 16:07
 Lab File ID: T8805.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3649	0.4208		28.8	25.0	15.3	50.0
Chloromethane	Ave	0.5729	0.7002	0.1000	30.6	25.0	22.2	50.0
Vinyl chloride	Ave	0.4845	0.5807		30.0	25.0	19.9	20.0
Bromomethane	Lin1F		0.1886		30.3	25.0	21.2	50.0
Chloroethane	Ave	0.2674	0.3029		28.3	25.0	13.3	50.0
Trichlorofluoromethane	Ave	0.3788	0.4474		29.5	25.0	18.1	50.0
Acrolein	Ave	0.0327	0.0342		522	500	4.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3174	0.3516		27.7	25.0	10.8	50.0
1,1-Dichloroethene	Ave	0.3342	0.3542	0.1000	26.5	25.0	6.0	20.0
Acetone	Ave	0.1694	0.2200		162	125	29.9	50.0
Iodomethane	Ave	0.3950	0.4518		28.6	25.0	14.4	50.0
Carbon disulfide	Ave	1.004	1.120		27.9	25.0	11.6	50.0
Methyl acetate	Ave	0.6337	0.8056		31.8	25.0	27.1	50.0
Acetonitrile	Ave	0.0379	0.0495		1310	1000	30.8	50.0
Methylene Chloride	Lin1F		0.4304		28.1	25.0	12.4	50.0
Methyl tert-butyl ether	Ave	1.239	1.290		26.0	25.0	4.1	50.0
trans-1,2-Dichloroethene	Ave	0.3618	0.3814		26.4	25.0	5.4	50.0
Acrylonitrile	Ave	0.2035	0.2541		156	125	24.9	50.0
1,1-Dichloroethane	Ave	0.7849	0.8780		28.0	25.0	11.9	50.0
Vinyl acetate	Ave	0.8571	1.018		149	125	18.8	50.0
2,2-Dichloropropane	Ave	0.3244	0.3397		26.2	25.0	4.7	50.0
cis-1,2-Dichloroethene	Ave	0.3890	0.4193		27.0	25.0	7.8	50.0
2-Butanone (MEK)	Ave	0.2668	0.3372		158	125	26.4	50.0
Bromochloromethane	Ave	0.1893	0.1952		25.8	25.0	3.1	50.0
Tetrahydrofuran	Ave	0.1794	0.2278		159	125	27.0	50.0
Chloroform	Ave	0.6739	0.7088		26.3	25.0	5.2	20.0
1,1,1-Trichloroethane	Ave	0.4986	0.5384		27.0	25.0	8.0	50.0
Cyclohexane	Ave	0.8639	1.019		29.5	25.0	18.0	50.0
Carbon tetrachloride	Ave	0.4666	0.4927		26.4	25.0	5.6	50.0
1,1-Dichloropropene	Ave	0.5329	0.5851		27.4	25.0	9.8	50.0
Benzene	Ave	1.449	1.595		27.5	25.0	10.0	50.0
1,2-Dichloroethane	Ave	0.6074	0.6732		27.7	25.0	10.8	50.0
Trichloroethene	Ave	0.3742	0.4048		27.0	25.0	8.2	50.0
Methylcyclohexane	Ave	0.6752	0.7361		27.3	25.0	9.0	50.0
1,2-Dichloropropane	Ave	0.4286	0.4801		28.0	25.0	12.0	20.0
Dibromomethane	Ave	0.2284	0.2516		27.5	25.0	10.2	50.0
Bromodichloromethane	Ave	0.4611	0.4958		26.9	25.0	7.5	50.0
2-Chloroethyl vinyl ether	Ave	0.2836	0.3192		141	125	12.5	50.0
cis-1,3-Dichloropropene	Ave	0.5759	0.6129		26.6	25.0	6.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6549	0.8034		153	125	22.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-6205-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-21049/2 Calibration Date: 06/22/2011 10:30
 Instrument ID: HP5975T Calib Start Date: 06/14/2011 14:10
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/14/2011 16:07
 Lab File ID: T8805.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.035	1.096		26.5	25.0	5.9	20.0
trans-1,3-Dichloropropene	Ave	0.6085	0.6207		25.5	25.0	2.0	50.0
Ethyl methacrylate	Ave	0.6171	0.6077		24.6	25.0	-1.5	50.0
1,1,2-Trichloroethane	Ave	0.3096	0.3322		26.8	25.0	7.3	50.0
Tetrachloroethene	Ave	0.3957	0.4322		27.3	25.0	9.2	50.0
1,3-Dichloropropane	Ave	0.6527	0.7107		27.2	25.0	8.9	50.0
2-Hexanone	Ave	0.4651	0.5782		155	125	24.3	50.0
Dibromochloromethane	Ave	0.3738	0.3817		25.5	25.0	2.1	50.0
1,2-Dibromoethane	Ave	0.3658	0.3782		25.9	25.0	3.4	50.0
Chlorobenzene	Ave	1.112	1.149	0.3000	25.8	25.0	3.4	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3803	0.4013		26.4	25.0	5.5	50.0
Ethylbenzene	Ave	1.948	2.024		26.0	25.0	3.9	20.0
m,p-Xylene	Ave	0.7399	0.7644		51.7	50.0	3.3	50.0
o-Xylene	Ave	0.7431	0.7557		25.4	25.0	1.7	50.0
Styrene	Ave	1.221	1.271		26.0	25.0	4.1	50.0
Bromoform	Ave	0.2240	0.2338	0.1000	26.1	25.0	4.4	50.0
Isopropylbenzene	Ave	3.779	3.852		25.5	25.0	1.9	50.0
Bromobenzene	Ave	0.8363	0.8494		25.4	25.0	1.6	50.0
1,1,2,2-Tetrachloroethane	Ave	1.006	1.062	0.3000	26.4	25.0	5.5	50.0
N-Propylbenzene	Ave	4.685	4.659		24.9	25.0	-0.6	50.0
1,2,3-Trichloropropane	Ave	0.3091	0.3074		24.9	25.0	-0.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.3385	0.2777		103	125	-18.0	50.0
2-Chlorotoluene	Ave	0.8485	0.8636		25.4	25.0	1.8	50.0
1,3,5-Trimethylbenzene	Ave	3.209	3.205		25.0	25.0	-0.1	50.0
4-Chlorotoluene	Ave	3.111	3.112		25.0	25.0	0.0	50.0
tert-Butylbenzene	Ave	0.6482	0.6844		26.4	25.0	5.6	50.0
1,2,4-Trimethylbenzene	Ave	3.251	3.213		24.7	25.0	-1.2	50.0
sec-Butylbenzene	Ave	4.159	4.322		26.0	25.0	3.9	50.0
1,3-Dichlorobenzene	Ave	1.660	1.685		25.4	25.0	1.5	50.0
4-Isopropyltoluene	Ave	3.414	3.528		25.8	25.0	3.3	50.0
1,4-Dichlorobenzene	Ave	1.689	1.766		26.1	25.0	4.6	50.0
n-Butylbenzene	Ave	3.354	3.506		26.1	25.0	4.5	50.0
1,2-Dichlorobenzene	Ave	1.648	1.676		25.4	25.0	1.7	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1977	0.2006		25.4	25.0	1.4	50.0
1,2,4-Trichlorobenzene	Ave	1.217	1.329		27.3	25.0	9.2	50.0
Hexachlorobutadiene	Ave	0.5756	0.6597		28.7	25.0	14.6	50.0
Naphthalene	Ave	3.389	3.475		25.6	25.0	2.6	50.0
1,2,3-Trichlorobenzene	Ave	1.137	1.261		27.7	25.0	10.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4706	0.5166		27.4	25.0	9.8	50.0
Toluene-d8 (Surr)	Ave	1.398	1.478		26.4	25.0	5.7	50.0
4-Bromofluorobenzene (Surr)	Ave	0.3978	0.4028		25.3	25.0	1.3	50.0

Data Usability Summary Report

Prepared by: Helen Jones Parry, AECOM Project Chemist

Prepared for: Dino Zack, AECOM Project Manager

Project: Scott Aviation Investigation, October 2011

Date prepared: November 9, 2011

This Data Usability Summary Report (DUSR) provides a discussion of the usability of the data collected during investigation activities at the Scott Aviation facility located in Lancaster, NY. Our overall conclusion is that the data are usable for the intended purpose of assessing site conditions relative to regulatory screening values and available background data.

Data validation of the full dataset was completed in November 2011. The data package was reviewed using the following USEPA Region 2 data validation Standard Operating Procedures (SOPs) as guidance:

- USEPA Region 2, SOP HW-6, CLP Organics Data Review and Preliminary Review (CLP/SOW OLM0 4.3) [Revision 14, September 2006]; and

Where necessary, the Region 2 SOPs were modified to incorporate project-specific or method-specific criteria. Data qualifiers applied were consistent with the Region 2 guidance and consisted of the following:

Qualifier	Definition
J	Estimated
U	Not detected
UJ	Not detected, estimated
JN	Presumptively present at estimated quantity
R	Rejected

Elements reviewed in preparing the DUSR were consistent with those specified in the NYSDEC guidance (NYSDEC, 2001).

Summary

Three groundwater samples were collected at the site on October 7, 2011 and submitted to Test America Laboratory, Amherst, NY, a New York State certified laboratory (NYSDOH ELAP No. 10026). All analyses conducted by Test America were performed in accordance with New York State Department of Environmental Conservation (NYSDEC) 2000 Analytical Services Protocol (ASP 2000) with Category B deliverables. The analytical methods used in this program are summarized in Table 1.

Table 1: Analytical Procedures

Analysis Category	Analytical Method
Volatile Organics (VOCs)	EPA SW-846 Method 8260B, NYSDEC ASP 2000

One trip blank accompanied the groundwater samples and was analyzed for VOCs. These data were reviewed in the same manner as the field samples. However, qualifications applied to these samples are not included in the discussion below.

The attachment to this DUSR provides a complete listing of samples and collection dates; summary of qualified data; and copies of nonconformances.

Groundwater Data

The nonconformances associated with the groundwater analyses were minimal. All groundwater results may be considered usable for decision making purposes.

Volatile Organic Compounds

In general, the VOC data appear to be valid, and may be considered usable for decision making purposes. No VOC data were rejected.

Holding Times

All VOC holding times were met.

Sample Preservation

All VOC samples were properly preserved, received by the laboratory at acceptable temperatures, and were stored at the proper temperature from the time of laboratory receipt until analysis.

Quality Control

Quality control (QC) elements were reviewed for compliance with acceptance criteria. Documentation of nonconformances is included as attachments to this DUSR.

Blanks – Blanks associated with the samples included laboratory blanks and did not contain any detections.

Surrogates – Surrogate recoveries were acceptable.

Internal Standard Recoveries – Internal standard recoveries were acceptable.

Calibrations – Calibrations were acceptable with the following exceptions: The continuing calibration percent difference (%D) for acetone was greater than the quality control limit of 20% on 10/20/11 at 08:53 on instrument HP5973S. Sensitivity increased with respect to the initial calibration average relative response factor. The associated non-detect results in all samples in this SDG did not require qualification in response to the high instrument bias.

The continuing calibration percent difference (%D) for chloroethane was less than the quality control limit of -20% on 10/20/11 at 08:53 on instrument HP5973S. Sensitivity decreased with respect to the initial calibration average relative response factor. The associated non-detect results in all samples in this SDG were qualified "UJ," as estimates due to low instrument bias.

Laboratory Control Samples – Laboratory control sample (LCS) %Rs were acceptable.

Detection Limits and Sample Results

In sample CB-1-10-07-11, analytical dilutions were necessary to quantitate target analytes within the instrument calibration range. Results were combined during validation to report the lowest possible reporting limits for non-detects, while reporting all detected compounds within the calibration range.

Completeness of Deliverables

The data were reported as NYSDEC ASP Category B deliverables. No significant omissions or deficiencies were noted.

Conclusions

The data are valid as reported and may be used for decision making purposes. No data points were rejected (R) though some were qualified as estimated (J) based on certain QC nonconformances as described in the sections above.

Several results were estimated below the reporting limit and qualified "J" by the laboratory. These qualifiers were maintained in the data validation.

Attachments to Data Usability Summary Report (DUSR)

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 480-10892-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-10892-1	CB-1-10-07-11	Water	10/07/2011 1045	10/07/2011 1310
480-10892-2	CB-4-10-07-11	Water	10/07/2011 1100	10/07/2011 1310
480-10892-3	OF-1-10-07-11	Water	10/07/2011 1130	10/07/2011 1310
480-10892-4TB	Trip	Water	10/07/2011 0000	10/07/2011 1310

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: CB-1-10-07-11

Lab Sample ID: 480-10892-1

Date Sampled: 10/07/2011 1045

Client Matrix: Water

Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-36287	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S7209.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/20/2011 1109			Final Weight/Volume:	5 mL
Prep Date:	10/20/2011 1109				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	180 170	E	0.82 4.1	10 5.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	1.4		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	210 260	E	0.31 1.6	10 5.0
1,1-Dichloroethane	26		0.38	1.0
1,1-Dichloroethene	28		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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
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
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND 4J		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	52		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	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	0.73	J	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	22		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: CB-1-10-07-11

Lab Sample ID: 480-10892-1

Date Sampled: 10/07/2011 1045

Client Matrix: Water

Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-36287	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S7209.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/20/2011 1109			Final Weight/Volume:	5 mL
Prep Date:	10/20/2011 1109				

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)	115		66 - 137
Toluene-d8 (Surr)	103		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: CB-1-10-07-11

Lab Sample ID: 480-10892-1

Date Sampled: 10/07/2011 1045

Client Matrix: Water

Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-36287	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S7229.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/20/2011 1830	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/20/2011 1830				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	170		4.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.1	5.0
1,4,2-Trichloroethane	ND		1.2	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	260		1.6	5.0
1,1-Dichloroethane	25		1.9	5.0
1,1-Dichloroethene	23		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-Hexanone	ND		6.2	25
2-Butanone (MEK)	ND		6.6	50
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
Dibromochloromethane	ND		1.6	5.0
Chloroethane	ND		1.6	5.0
Chloroform	ND		1.7	5.0
Chloromethane	ND		1.8	5.0
cis-1,2-Dichloroethene	48		4.1	5.0
cis-1,3-Dichloropropene	ND		1.8	5.0
Cyclohexane	ND		0.90	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	21		2.3	5.0
Trichlorofluoromethane	ND		4.4	5.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: CB-1-10-07-11

Lab Sample ID: 480-10892-1

Date Sampled: 10/07/2011 1045

Client Matrix: Water

Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-36287 Instrument ID: HP5973S
Prep Method: 5030B Prep Batch: N/A Lab File ID: S7229.D
Dilution: 5.0 Run Type: DL Initial Weight/Volume: 5 mL
Analysis Date: 10/20/2011 1830 Final Weight/Volume: 5 mL
Prep Date: 10/20/2011 1830

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)	118		66 - 137
Toluene-d8 (Surr)	106		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: CB-4-10-07-11

Lab Sample ID: 480-10892-2

Date Sampled: 10/07/2011 1100

Client Matrix: Water

Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 480-36287	Instrument ID: HP5973S	
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: S7210.D	
Dilution: 1.0		Initial Weight/Volume: 5 mL	
Analysis Date: 10/20/2011 1131		Final Weight/Volume: 5 mL	
Prep Date: 10/20/2011 1131			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.4		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
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
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND	WJ	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
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	1.2		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: CB-4-10-07-11

Lab Sample ID: 480-10892-2

Date Sampled: 10/07/2011 1100

Client Matrix: Water

Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-36287	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S7210.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/20/2011 1131			Final Weight/Volume:	5 mL
Prep Date:	10/20/2011 1131				

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)	117		66 - 137
Toluene-d8 (Surr)	106		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: OF-1-10-07-11

Lab Sample ID: 480-10892-3

Date Sampled: 10/07/2011 1130

Client Matrix: Water

Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 480-36287	Instrument ID: HP5973S	
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: S7211.D	
Dilution: 1.0		Initial Weight/Volume: 5 mL	
Analysis Date: 10/20/2011 1153		Final Weight/Volume: 5 mL	
Prep Date: 10/20/2011 1153			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.2		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5		0.31	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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	5.9		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
Dibromochloromethane	2.6		0.32	1.0
Chloroethane	ND WJ		0.32	1.0
Chloroform	13		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
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

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: OF-1-10-07-11

Lab Sample ID: 480-10892-3

Date Sampled: 10/07/2011 1130

Client Matrix: Water

Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-36287	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S7211.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/20/2011 1153			Final Weight/Volume:	5 mL
Prep Date:	10/20/2011 1153				

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)	116		66 - 137
Toluene-d8 (Surr)	109		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Support Documentation

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt Yes No

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1/007)

Client: AECOM Date: 10/17/11 Chain of Custody Number: 199789

Address: 100 Corporate Plaza, Suite 341 Lab Number: Buff 6

City: Amburst State: NY Zip Code: NY Lab Contact: B. Fisch Page: 1 of 1

Project Name and Location (State): Soth BCP (New York) Lab Contact: B. Fisch

Contract/Purchase Order/Quote No. 716-836-4506 Carrier/Waybill Number: B. Fisch

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives				Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Soil	Water	Sludge	Other	MSDCM	MSDCM	MSDCM	MSDCM				
CB-1-10-07-11	10/17/11	1045	X							3				
CB-4-10-07-11	10/17/11	1100	X							3				
DF-1-10-07-11	10/17/11	1130	Y							3				
Tap	10/17/11		X							2				

Sample Disposal: Return to Client Unknown Recycle A Recycle B Other: STD

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days

1. Requested By: Don Jule Date: 10/17/11 Time: 1310

2. Released By: [Signature] Date: 10/17/11 Time: 1310

3. Received By: [Signature] Date: 10/17/11 Time: 1310

Comments: (5.1)

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Slugs with the Sample. PINK - Field Copy

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 480-10892-1

Login Number: 10892

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

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.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: Trip
 Lab Sample ID: 480-10892-4TB
 Client Matrix: Water

Date Sampled: 10/07/2011 0000
 Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-36287	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S7212.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/20/2011 1215			Final Weight/Volume:	5 mL
Prep Date:	10/20/2011 1215				

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-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	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-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
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
Dibromochloromethane	ND		0.32	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
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

Analytical Data

Client: AECOM, Inc.

Job Number: 480-10892-1

Client Sample ID: Trip
Lab Sample ID: 480-10892-4TB
Client Matrix: Water

Date Sampled: 10/07/2011 0000
Date Received: 10/07/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 480-36287	Instrument ID: HP5973S
Prep Method: 5030B	Prep Batch: N/A	Lab File ID: S7212.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 10/20/2011 1215		Final Weight/Volume: 5 mL
Prep Date: 10/20/2011 1215		

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)	120		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10892-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-36287/2 Calibration Date: 10/20/2011 08:53
 Instrument ID: HP5973S Calib Start Date: 09/20/2011 14:39
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 16:29
 Lab File ID: S7204.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2262	0.2440		27.0	25.0	7.8	50.0
Chloromethane	Ave	0.2659	0.2538	0.1000	23.9	25.0	-4.6	50.0
Vinyl chloride	Ave	0.2702	0.2423		22.4	25.0	-10.3	20.0
Bromomethane	QuaF		0.0797		26.8	25.0	7.2	50.0
Chloroethane	Ave	0.1495	0.0955		16.0	25.0	-36.1	50.0
Trichlorofluoromethane	Lin1F		0.3372		29.6	25.0	18.4	50.0
Acrolein	Ave	0.0106	0.0104		489	500	-2.2	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2174	0.2452		28.2	25.0	12.8	50.0
1,1-Dichloroethene	Ave	0.2525	0.2161	0.1000	21.4	25.0	-14.4	20.0
Acetone	Ave	0.0965	0.1169		151	125	21.2	50.0
Iodomethane	Ave	0.2436	0.2551		26.2	25.0	4.7	50.0
Carbon disulfide	Ave	0.6729	0.6778		25.2	25.0	0.7	50.0
Methyl acetate	Ave	0.4135	0.4477		27.1	25.0	8.3	50.0
Acetonitrile	Ave	0.0195	0.0238		1220	1000	22.2	50.0
Methylene Chloride	Ave	0.3013	0.2707		22.5	25.0	-10.2	50.0
Methyl tert-butyl ether	Ave	0.8077	0.8484		26.3	25.0	5.0	50.0
trans-1,2-Dichloroethene	Ave	0.2721	0.2565		23.6	25.0	-5.7	50.0
Acrylonitrile	Ave	0.1168	0.1196		128	125	2.5	50.0
1,1-Dichloroethane	Ave	0.4693	0.4228		22.5	25.0	-9.9	50.0
Vinyl acetate	Ave	0.4388	0.4753		135	125	8.3	50.0
2,2-Dichloropropane	Ave	0.2073	0.2057		24.8	25.0	-0.8	50.0
cis-1,2-Dichloroethene	Ave	0.2998	0.2755		23.0	25.0	-8.1	50.0
2-Butanone (MEK)	Ave	0.1537	0.1637		133	125	6.5	50.0
Bromochloromethane	Ave	0.1441	0.1408		24.4	25.0	-2.3	50.0
Tetrahydrofuran	Ave	0.1018	0.1054		130	125	3.6	50.0
Chloroform	Ave	0.4610	0.4460		24.2	25.0	-3.2	20.0
1,1,1-Trichloroethane	Ave	0.3061	0.3251		26.5	25.0	6.2	50.0
Cyclohexane	Ave	0.4737	0.4456		23.5	25.0	-5.9	50.0
Carbon tetrachloride	Ave	0.2936	0.3122		26.6	25.0	6.3	50.0
1,1-Dichloropropene	Ave	0.3671	0.3302		22.5	25.0	-10.1	50.0
Benzene	Ave	1.148	1.020		22.2	25.0	-11.1	50.0
1,2-Dichloroethane	Ave	0.3373	0.3566		26.4	25.0	5.7	50.0
Trichloroethene	Ave	0.2749	0.2583		23.5	25.0	-6.0	50.0
Methylcyclohexane	Ave	0.4989	0.4830		24.2	25.0	-3.2	50.0
1,2-Dichloropropane	Ave	0.2775	0.2366		21.3	25.0	-14.8	20.0
Dibromomethane	Ave	0.1585	0.1573		24.8	25.0	-0.7	50.0
Bromodichloromethane	Ave	0.3219	0.3252		25.3	25.0	1.0	50.0
2-Chloroethyl vinyl ether	Ave	0.1889	0.1657		110	125	-12.3	50.0
cis-1,3-Dichloropropene	Ave	0.4232	0.3836		22.7	25.0	-9.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6615	0.6929		131	125	4.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10892-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-36287/2 Calibration Date: 10/20/2011 08:53
 Instrument ID: HP5973S Calib Start Date: 09/20/2011 14:39
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 16:29
 Lab File ID: S7204.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.584	1.378		21.8	25.0	-13.0	20.0
trans-1,3-Dichloropropene	Ave	0.8144	0.7256		22.3	25.0	-10.9	50.0
Ethyl methacrylate	Ave	0.8124	0.8073		24.8	25.0	-0.6	50.0
1,1,2-Trichloroethane	Ave	0.4541	0.4101		22.6	25.0	-9.7	50.0
Tetrachloroethene	Ave	0.6252	0.5766		23.1	25.0	-7.8	50.0
1,3-Dichloropropane	Ave	0.9550	0.8456		22.1	25.0	-11.5	50.0
2-Hexanone	Ave	0.4845	0.5216		135	125	7.6	50.0
Dibromochloromethane	Ave	0.5091	0.5017		24.6	25.0	-1.4	50.0
1,2-Dibromoethane	Ave	0.5353	0.5014		23.4	25.0	-6.3	50.0
Chlorobenzene	Ave	1.732	1.579	0.3000	22.8	25.0	-8.9	50.0
Ethylbenzene	Ave	2.862	2.552		22.3	25.0	-10.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5165	0.5181		25.1	25.0	0.3	50.0
m,p-Xylene	Ave	1.133	1.024		45.2	50.0	-9.6	50.0
o-Xylene	Ave	1.104	0.9821		22.2	25.0	-11.0	50.0
Styrene	Ave	1.904	1.716		22.5	25.0	-9.9	50.0
Bromoform	Lin1F		0.2818	0.1000	20.1	25.0	-19.6	50.0
Isopropylbenzene	Ave	2.865	2.459		21.5	25.0	-14.2	50.0
Bromobenzene	Ave	0.7151	0.6460		22.6	25.0	-9.7	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7413	0.6439	0.3000	21.7	25.0	-13.1	50.0
N-Propylbenzene	Ave	3.455	2.967		21.5	25.0	-14.1	50.0
1,2,3-Trichloropropane	Ave	0.2217	0.2141		24.2	25.0	-3.4	50.0
trans-1,4-Dichloro-2-butene	Lin1F		0.1177		92.6	125	-25.9	50.0
2-Chlorotoluene	Ave	0.7026	0.6248		22.2	25.0	-11.1	50.0
1,3,5-Trimethylbenzene	Ave	2.403	2.145		22.3	25.0	-10.7	50.0
4-Chlorotoluene	Ave	0.7366	0.6557		22.3	25.0	-11.0	50.0
tert-Butylbenzene	Ave	0.5345	0.4793		22.4	25.0	-10.3	50.0
1,2,4-Trimethylbenzene	Ave	2.417	2.201		22.8	25.0	-8.9	50.0
sec-Butylbenzene	Ave	3.142	2.774		22.1	25.0	-11.7	50.0
1,3-Dichlorobenzene	Ave	1.365	1.291		23.6	25.0	-5.4	50.0
4-Isopropyltoluene	Ave	2.620	2.366		22.6	25.0	-9.7	50.0
1,4-Dichlorobenzene	Ave	1.434	1.317		23.0	25.0	-8.1	50.0
n-Butylbenzene	Ave	2.423	2.140		22.1	25.0	-11.7	50.0
1,2-Dichlorobenzene	Ave	1.346	1.266		23.5	25.0	-5.9	50.0
1,2-Dibromo-3-Chloropropane	Lin1F		0.1247		22.0	25.0	-12.0	50.0
1,2,4-Trichlorobenzene	Ave	0.9344	0.8536		22.8	25.0	-8.6	50.0
Hexachlorobutadiene	Ave	0.1828	0.1809		24.7	25.0	-1.0	50.0
Naphthalene	Ave	1.232	1.254		25.5	25.0	1.8	50.0
1,2,3-Trichlorobenzene	Ave	0.4008	0.4098		25.6	25.0	2.2	50.0
1,2-Dichloroethane-d4 (Surr)	QuaF		0.1614		28.6	25.0	14.4	50.0
Toluene-d8 (Surr)	QuaF		2.095		26.3	25.0	5.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6243	0.6344		25.4	25.0	1.6	50.0