



Geotechnical
Environmental and
Water Resources
Engineering

Pre-Design Investigation Report

Gloversville (Washington Street) Former MGP Site Gloversville, New York

NYSDEC Site #V00476

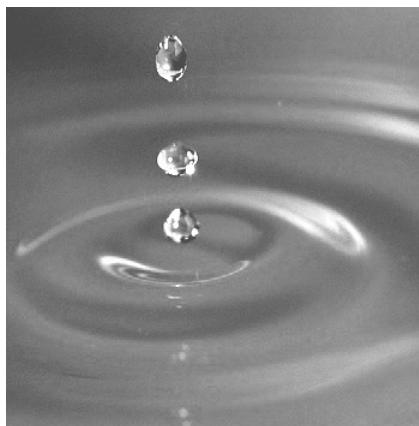
Submitted to:

National Grid
300 Erie Boulevard West
Syracuse, NY 13202

Submitted by:

GEI Consultants, Inc., P.C.
1301 Trumansburg Road, Suite N
Ithaca, NY 14850
607-216-8955

December 17, 2014
Project #115130



Jennifer S. Belonsoff, P.G.
Task Manager

John T. Finn, P.E.
Project Manager

Table of Contents

Abbreviations and Acronyms	iii
Executive Summary	iv
1. Introduction	1
1.1 Background	1
1.2 Site Description	2
1.3 Previous Investigations	2
2. Scope of Work and Methods	3
2.1 Utility Location	3
2.2 CAMP Monitoring	4
2.3 Subsurface Soil Sampling	4
2.4 Test Pit Excavations	5
2.5 Open Borehole Slug Testing	5
2.6 Site Survey	5
3. Results	6
3.1 Utility Clearance	6
3.2 CAMP Monitoring	6
3.3 Soil Boring Program	6
3.4 Geotechnical Soil Borings	7
3.5 Test Pit Excavations	7
3.6 Open Borehole Slug Testing	7
3.7 Site Survey	7
4. Interpretations, Conclusions, and Recommendations	9
4.1 Subsurface Investigation	9
4.2 Recommended Design Process	9
5. References	10

Tables

1. Soil Boring Summary Table
2. Soil Analytical Data Results

Figures

1. Site Location Map
2. Investigation Locations

Appendices

- A. CAMP Data
- B. Soil Boring and Test Pit Logs
- C. Laboratory Analytical Data Reports
- D. Grain Size Analysis Reports
- E. Photographs
- F. Hydraulic Conductivity Test Data

JSB:mlr

M:\Admin\Project\NationalGrid\NG-Gloversville_115130ph1\Gloversville PDI Report 12.17.14\Gloversville PDI Report 12.17.14.docx

Abbreviations and Acronyms

BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CAMP	Community Air-Monitoring Plan
DD	Decision Document
GEI	GEI Consultants, Inc., P.C.
HSA	Hollow Stem Auger
MGP	Manufactured Gas Plant
NAD83	North American Datum of 1983
NAPL	Non-aqueous Phase Liquid
NAVD88	National Astronomic Vertical Datum of 1988
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	Polycyclic Aromatic Hydrocarbon
PDI	Pre-Design Investigation
PID	Photoionization Detector
PPE	Personal Protective Equipment
RI	Remedial Investigation
SMP	Site Management Plan
SPT	Standard Penetration Test
VOC	Volatile Organic Compound

MEASUREMENTS

ppm Parts per million

Executive Summary

GEI Consultants, Inc., P.C. (GEI) was contracted by National Grid to conduct a Pre-Design Investigation (PDI) at the Gloversville (Washington Street) Former Manufactured Gas Plant (MGP) site (Site) in the City of Gloversville, Fulton County, New York (Figure 1). The Site is an 0.18 acre area located at 7 Broadway as shown on Figures 1 and 2.

A Remedial Investigation (RI) at the Site was conducted by TRC in May 2011. GEI completed an Alternatives Analysis Report in June 2013. The selected remedy was memorialized in the Decision Document (DD) in October 2013. The PDI was implemented consistent with the New York State Department of Environmental Conservation (NYSDEC)-approved Pre-Design Investigation Work Plan (GEI, 2014).

This report summarizes the investigation work performed to collect additional pertinent geotechnical and environmental information for the final design and construction of the remedial excavation along Broadway. The PDI field investigation included the following tasks: utility location, installation of soil borings, installation of geotechnical soil borings, excavation of test pits, survey, and in-situ hydrologic testing. These data are necessary to begin the design of the excavation as described in the DD issued by the NYSDEC in October 2013.

Soil borings were advanced in areas previously identified during the RI to be in close proximity to non-aqueous phase liquid (NAPL)-containing soils. These soil borings were installed to further refine the extent of the excavation proposed in the DD.

Geotechnical soil borings were also installed during the PDI along the sidewalk along Broadway to collect geotechnical data for the shoring design for the proposed excavation.

Open-borehole slug tests were conducted to estimate hydraulic conductivity and pumping rates.

Shallow soil test pit excavations were performed in the vicinity of a portion of wooden wall presumably associated with the former gas holder at the northern edge of the proposed excavation, shown as a partially exposed tank foundation on current figure and referenced by TRC in the RI as a gas holder on the 1887 Sanborn map (TRC, 2011). Another test pit was also completed in the vicinity of TP-3 to more accurately describe the nature and extent of impacts previously observed at this location.

The results of the PDI indicate that the nature and extent of impacts were generally well defined during the RI, and no substantial changes to the excavation footprint shown in the DD are anticipated. Geotechnical results indicate that there are three distinct soil types at the Site (advancing with depth, silty sand with gravel [fill], poorly graded sand with silt, and silt). Previous investigations did not identify the predominantly silt unit. Sufficient geotechnical information was obtained to prepare the excavation shoring design.

The slug testing indicates that hydraulic conductivity in the middle unit (poorly graded sand with silt) is approximately 6 feet/day. This moderate groundwater flow result will be used in preparing the Remedial Design with regard to excavation dewatering.

The gas pipeline and sanitary sewer pipeline were successfully identified and their locations will be incorporated in the Remedial Design.

The next phase of work will be the preparation of the Remedial Design. Institutional controls, including an environmental easement and a Site Management Plan (SMP), will be included in the Remedial Design, in accordance with the DD for the Site.

1. Introduction

This Pre-Design Investigation (PDI) Report has been prepared by GEI Consultants, Inc., P.C. (GEI), on behalf of National Grid, to present the results of the field investigation for the Remedial Design, which is being developed for the Gloversville (Washington) Street Former Manufactured Gas Plant (MGP) site (Site). The Site is the former location of an MGP that was operated by a National Grid predecessor beginning in the mid-1800's. The MGP continued to operate until 1888. The Site is an 0.18 acre area located at 7 Broadway as shown on Figures 1 and 2.

A Remedial Investigation (RI) at the Site was conducted by TRC in May 2011. GEI completed an Alternatives Analysis Report in June 2013. The selected remedy was memorialized in the Decision Document (DD) in October 2013. The PDI was implemented consistent with the New York State Department of Environmental Conservation (NYSDEC)-approved Pre-Design Investigation Work Plan (GEI, 2014).

This report is organized as follows:

- **Section 1** – Background and site description
- **Section 2** – Scope of Work for the activities performed for this investigation
- **Section 3** – Presents the results of the investigation for the preliminary design
- **Section 4** – The interpretations, conclusions, and recommendations that can be made based on the PDI
- **Section 5** – Provides a list of cited references

Tables and figures are included in sections that immediately follow the report text.

1.1 Background

In accordance with the DD, a design and remedial action will be performed at the Gloversville (Washington Street) Former MGP site. The PDI was performed to collect additional pertinent geotechnical and environmental information for the final design and construction of the excavation support system. This report presents methods used to complete the PDI activities, the results obtained, our interpretation of the results, conclusions, and proposed design activities.

1.2 Site Description

The Site is owned by one private owner and is being evaluated by National Grid under an existing Consent Order for non-owned MGP sites with the NYSDEC. It is located in a commercial area to the southeast of the intersection of Washington Street and Broadway. The Site is currently defined as the 0.18 acre tax parcel located at 7 Broadway (Figure 2). The Site is a vacant lot devoid of any above-grade structures. It is bordered to the north by a brick warehouse, to the east by a gravel and grass lot behind a commercial row building, to the south by the Family Counseling Center of Fulton County, and to the west by Broadway. A gravel drive is present on the central and southern portions of the Site and the remaining ground surface of the Site is grass covered. Access to the Site is presently unrestricted.

1.3 Previous Investigations

The RI was conducted by TRC in May 2011. GEI conducted a groundwater sampling event in June 2012 and the results were reported in a Groundwater Sampling Report in January 2013 (GEI, 2013a). GEI completed the Alternatives Analysis Report in June 2013 (GEI, 2013b). The remedial area of the Site contains polycyclic aromatic hydrocarbons (PAHs) in the subsurface soils along with varying amounts of non-aqueous phase liquid (NAPL), as determined during previous sampling performed during the RI. Soil boring, test pit logs, and analytical results of the soil sampling are located in the Remedial Investigation Report (TRC, 2011). Figure 2 shows the RI and PDI soil sample locations.

2. Scope of Work and Methods

This section describes the scope of work and the methods used to conduct the following field activities:

- Utility location
- Installation of soil borings
- Installation of geotechnical soil borings
- Excavation of test pits
- Open Borehole Slug Testing
- Survey

The PDI activities were conducted in accordance with the project Health and Safety Plan, and the Community Air Monitoring Plan (CAMP) which were approved by the NYSDEC for the PDI field work (GEI, 2014). All soil cuttings, used disposable sampling equipment, and personal protective equipment (PPE) were containerized in 55-gallon steel drums. These were labeled, sampled, and properly disposed of off site at a permitted disposal facility. Decontamination water was also containerized in 55-gallon steel drums prior to disposal off site. The results obtained for each of these activities are described in Section 3.

2.1 Utility Location

Clearance of underground utilities was performed prior to the start of any intrusive field work. No overhead utilities were of concern at the Site. The underground utility clearance was performed using methods previously used at other similar sites. Figure 2 shows the area where subsurface utilities were confirmed prior to any intrusive field activities. Dig Safely New York was contacted to arrange for the location and marking of all underground utilities in public right-of ways in the vicinity of the proposed sample locations. Thew Associates of Canton, New York, a New York State certified surveyor, performed on-site utility mark-outs to supplement the Dig Safely clearance on September 2, 2014. Tasks included use of ground penetrating radar and magnetometer to locate underground utilities. Sample locations were modified as necessary; however, there were no substantial modifications of the sample locations.

As part of the utility clearance, an air knife was also used to specifically locate the buried gas line adjacent to the Site in Broadway and the sanitary sewer line that runs along the southern perimeter of the proposed excavation. The air knife was used to clear soil and fill material

away for visual confirmation of the location of these lines at two or three points along each utility, and the location of the gas line and sewer line in the open holes were then surveyed.

2.2 CAMP Monitoring

Community air monitoring was performed by GEI in accordance with requirements of the NYSDEC and the New York State Department of Health (NYSDOH). This included monitoring for volatile organic compounds (VOCs) and dust at upwind and downwind locations.

2.3 Subsurface Soil Sampling

The objectives of this phase of work included the following:

- To collect additional geotechnical data for the shoring design for the proposed excavation
- To confirm the extent of the excavation in the DD by filling in data gaps near SB-21 and between SB-24 and SB-29
- To further delineate the extent of impacts previously observed in the area between SB-24 and SB-29

The soil boring drilling program took place from September 2-5, 2014. Three geotechnical soil borings (SB-50, SB-51, and SB-54) were advanced to a depth of 26 feet using a truck-mounted drilling rig at the locations shown on Figure 2. Two of the borings, SB-50 and SB-51, were spaced along the sidewalk and the third, SB-54, was located within the proposed excavation. These borings collected additional data for the shoring design for the proposed excavation. Continuous split-spoon sampling and Standard Penetration Tests (SPTs) were performed to the bottom of each boring. A sample was collected for each of the strata encountered and submitted for grain size analysis.

Four additional soil borings (SB-52, SB-53, SB-55, and SB-56) were advanced to a depth of 10 feet using a truck-mounted drilling rig at the locations shown on Figure 2. These soil borings were to confirm the extent of the excavation in the DD by filling-in data gaps near SB-21 and between SB-24 and SB-29. In the vicinity of SB-21, drilling refusal had been previously encountered at 4 feet below grade when drilling with Geoprobe equipment. An auger drilling rig was used to penetrate this area and categorize the material below 4 feet in the vicinity of soil borings SB-55 and SB-56. In addition, soil borings SB-52 and SB-53 were advanced between SB-24 and SB-29, as shown on Figure 2, to further delineate the extent of impacts previously observed in this area. Continuous split-spoon sampling and SPTs were performed to the bottom of each boring. Analytical soil samples were collected at each boring from the interval with the highest visual impact or photoionization detector (PID) readings, or from the bottom of the boring. Samples were analyzed for BTEX

(benzene, ethylbenzene, toluene, and xylenes) [EPA Method 8260D] and PAHs (EPA Method 8270C) by TestAmerica Laboratory in Pittsburgh, Pennsylvania, as described below, including analyses for pre-remediation characterization of soil for thermal treatment TCLP VOCs (EPA Method 8260D), Total polychlorinated biphenyls (PCBs) [EPA Method 8082], TCLP Metals [arsenic, barium, cadmium, chromium (total), lead, mercury, selenium, silver] (EPA Method 6010C/7470A), Total Cyanide (EPA Method 9010), and ignitability.

2.4 Test Pit Excavations

Shallow soil test pit excavation (TP-H) was performed in the vicinity of a portion of wooden wall presumably associated with the former gas holder at the northern edge of the proposed excavation, based on the 1887 Sanborn map referenced by TRC in the RI (TRC, 2011). This surface soil removal was performed using a mini excavator to locate the edges of the holder sheet metal and wood, part of the holder wall structure.

Test pit TP-South was completed in the vicinity of TP-3. Previous descriptions of the nature and extent of impacts at this test pit were inconsistent, so test pit TP-South was excavated across the footprint of the previous test pit and extended to the north.

2.5 Open Borehole Slug Testing

Open-borehole slug tests were performed to estimate hydraulic conductivity and estimated pumping rates in support of excavation dewatering. The drilling subcontractor augered to 3 feet below the water table, pulled the augers up 3 feet, pumped the borehole dry, then measured water level as it recovered. Hydraulic conductivity was then estimated using the Bouwer-Rice method.

2.6 Site Survey

A survey of the investigation sampling points and important site features was conducted at the end of the field work by Thew Associates, a New York State certified surveyor. All horizontal locations were reported in the applicable New York State horizontal coordinates (North American Datum of 1983 [NAD83] NYS Central Zone) coordinates. All vertical measurements were reported in North American Vertical Datum of 1988 (NAVD88).

3. Results

This section presents the results of the scope of work for the PDI as presented above in Section 2.

3.1 Utility Clearance

The results of the utility survey were used to confirm locations for the gas and sanitary sewer utilities. An air knife was used to remove soil from above these utility lines so that the exact locations could be surveyed. In addition, the utility survey was used to clear the investigation locations. The updated utility survey is shown on Figure 2.

3.2 CAMP Monitoring

GEI performed the community air monitoring. There were no sustained exceedances from VOCs or dust. CAMP records are maintained by GEI and are included with this report in Appendix A.

3.3 Soil Boring Program

The soil boring drilling program took place from September 2-5, 2014. A total of seven soil borings were completed for analytical and visual impact delineation as well as geotechnical investigation. The results of these efforts are presented below. Soil boring logs are presented in Appendix B.

The four delineation soil borings (SB-52, SB-53, SB-55, and SB-56) confirmed the previous observations that there are minor visual impacts in the soils including staining as well as observations of tar-like odors. These borings were drilled to 10 feet below grade, to fully include the proposed excavation depth. One analytical soil sample was collected from each boring from the interval of highest apparent impact, based on visual or olfactory observations or PID readings. This interval was from 5 to 6 feet below grade for each location. BTEX compounds and PAHs were tested at each location (Table 2). BTEX compounds were detected at each location. PAHs were also detected at each location. At SB-52, SB-55, and SB-56, more than one PAH compound was detected. In addition, total PAHs exceeded the CP-51 guidance of 500 parts per million (ppm) at each of these three locations. Analytical laboratory reports are included in Appendix C. None of the borings were observed to contain any NAPL or sheen. As stated in the DD, soil cleanup criteria are defined by grossly contaminated soils, defined as soils containing visible coal tar or PAHs exceeding 500 ppm, and soils that create nuisance conditions, as defined by CP-51 Soil Cleanup Guidance.

3.4 Geotechnical Soil Borings

Three geotechnical soil borings were installed during the PDI: SB-50 and SB-51 were installed along the sidewalk of Broadway, and SB-54 was installed within the proposed excavation (Figure 2). All three soil borings were completed by hollow stem auger (HSA) drilling and included split spoon sampling. Blow counts were recorded and are included on the soil boring logs in Appendix B. Grain size analysis samples were collected for each stratigraphic unit encountered. Three separate units were identified: fill was classified as silty sand with gravel, the middle unit is poorly graded sand with silt, and the lower unit is silt. The sieve analysis results are presented in Appendix D.

3.5 Test Pit Excavations

There were two test pits excavated as part of the PDI. The first test pit, TP-H, was excavated adjacent to a portion of wooden wall that was observed at ground level. This wall is presumed to be part of a former gas holder that is shown on the 1887 Sanborn map in the TRC RI Report (TRC, 2011). TP-H was excavated up to 2 feet deep and indicated that the former holder did still have portions of the wooden wall present. Photographs taken are included in Appendix E and indicate the previously visible portion of the wall along with small segments on the opposite side of the structure. These wall segments indicated an approximate holder diameter of 20 feet.

TP-South was excavated across the length of previous test pit TP-3. This test pit was excavated to a depth of 7 feet. Ash, coal, wood and brick fragments were observed in the upper fill layer. The remaining stratigraphy observed was consistent with the grain size analysis testing that was conducted. Slight tar-like odors were observed in the shallow soil and in the silt, but no other MGP-related impacts were observed. Test pit logs are included in Appendix B.

3.6 Open Borehole Slug Testing

Open borehole slug testing was attempted at the three geotechnical soil borings. At SB-50, the soil from the borehole wall collapsed before measurements could be taken, so no data were collected from that location. Although data were collected at SB-51, not enough data were obtained to result in a valid output for slug testing. Therefore, only SB-54 data were usable. An estimated hydraulic conductivity value of 6.1 feet/day was obtained at SB-54. The data are presented in Appendix F.

3.7 Site Survey

Survey of the investigation locations was conducted on September 5, 2014 by Thew Associates. All newly completed utility air knife locations, soil borings and test pits were

surveyed for horizontal coordinates (NAD83) and vertical elevation (NAVD88). The new survey has been incorporated into the site base map as shown on Figure 2.

4. Interpretations, Conclusions, and Recommendations

This section interprets the results presented in Section 3 and provides conclusions and recommendations with regard to planned excavation and engineering and institutional controls.

4.1 Subsurface Investigation

The results of the delineation soil borings, geotechnical soil borings and test pits will be used to finalize the Remedial Design. The field observations were generally consistent with previous observations regarding nature and extent of impacts. The soil analytical data were also consistent with previous results. Therefore, we found the extent of the excavation footprint to be consistent with that presented in the DD.

The geotechnical data will be incorporated into the final design and construction of the excavation support system. The SPT and grain size data indicate typical conditions that will be conducive to a conventional shoring design.

The hydraulic conductivity of approximately 6 feet/day is a moderate value that will be helpful in the planning for dewatering during the remedial activities.

4.2 Recommended Design Process

Based on the results of the PDI, we recommend proceeding with the Remedial Design as described in the DD. The Remedial Design Program will be implemented to provide the details necessary for the construction, operation, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation and site management of the remedy as per DER-31. The remedial excavation design will be presented in the final Remedial Design. Institutional controls, including an environmental easement and a Site Management Plan, will be included in the Remedial Design.

5. References

GEI, 2013a. Groundwater Sampling Report, Gloversville (Washington St.) Non-Owned Former MGP Site, January 2013.

GEI, 2013b. Alternatives Analysis Report, Gloversville (Washington St.) Non-Owned Former MGP Site, June 2013.

GEI, 2014. Pre-Design Investigation Work Plan, Gloversville (Washington Street) Non-Owned Former MGP Site, Gloversville, NY, March 2014.

NYSDEC, 2013. Decision Document, Gloversville Washington St. MGP, Voluntary Cleanup Program, Gloversville, Fulton County, Site No. V00476, October 2013.

TRC, 2011. Remedial Investigation Report, Gloversville Former MGP Site, Washington Street, Gloversville, NY, May 2011.

Tables

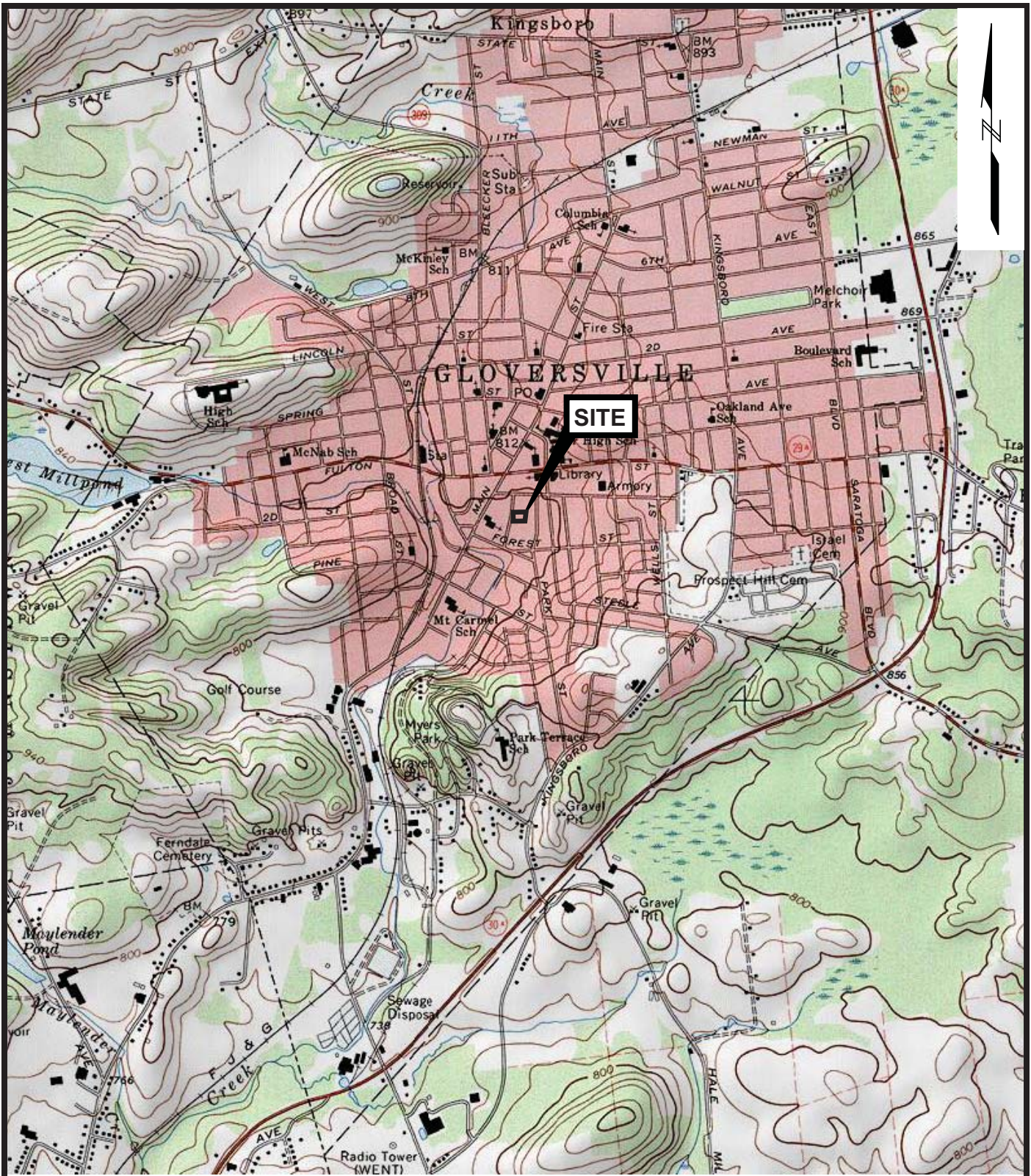
Table 1
Soil Boring Summary
Gloversville Former MGP Site
Pre-Design Investigation
National Grid
Gloversville, NY

Location	Purpose	Total Depth	Samples Collected
AK-G1	air knife clearing for gas line	5	NA
AK-G2	air knife clearing for gas line	2.5	NA
AK-G3	air knife clearing for gas line	2.5	NA
AK-S1	air knife clearing for sewer line	5	NA
AK-S2	air knife clearing for sewer line	5	NA
SB-50	geotechnical soil boring	26	grain size analyses
SB-51	geotechnical soil boring	26	grain size analyses
SB-52	delineation soil boring	10	5-6' BTEX, PAHs
SB-53	delineation soil boring	10	5-6' BTEX, PAHs
SB-54	geotechnical soil boring	26	grain size analyses
SB-55	delineation soil boring	10	5-6' BTEX, PAHs
SB-56	delineation soil boring	10	5-6' BTEX, PAHs

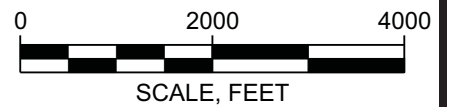
Table 2
Soil Analytical Data Results
Gloversville Former MGP Site
Pre-Design Investigation
National Grid
Gloversville, NY

Location Name		SB52	SB53	SB55	SB56
Sample Name		SB-52 (5-6)	SB-53 (5-6)	SB-55 (5-6)	SB-56 (5-6)
Sample Date		9/3/2014	9/3/2014	9/3/2014	9/3/2014
Analyte	CP-51 Soil Cleanup Guideline				
BTEX (mg/kg)					
Benzene		0.0022 J	0.0014 J	3.5	0.014
Toluene		0.0097	0.0066	26	0.069
Ethylbenzene		0.0027	0.0012 J	3.9	0.073
Total Xylene		0.013	0.0081 J	24	0.16
Total BTEX (ND=0)		0.0276	0.0173	57.4	0.316
NYSDEC PAH17 (mg/kg)					
Acenaphthene		48	0.2	85	18
Acenaphthylene		96	0.49	170	9.6
Anthracene		180	0.4	91	32
Benzo(a)anthracene		100	0.58	56	68
Benzo(b)fluoranthene		56	0.52	30	47
Benzo(k)fluoranthene		28	0.21	7.4	21
Benzo(g,h,i)perylene		29	0.27	15	20
Benzo(a)pyrene		64	0.47	33	45
Chrysene		82	0.53	52	61
Dibenz(a,h)anthracene		11 J	0.096	6.4	8.5
Fluoranthene		220	0.86	96	83
Fluorene		180	0.41	120	22
Indeno(1,2,3-cd)pyrene		29	0.26	12	19
2-Methylnaphthalene		5.8 J	0.25	380	13
Naphthalene		18	0.2	730	26
Phenanthrene		390	1.3	390	120
Pyrene		170	0.78	110	78
Total PAH (17) (ND=0)	500	1706.8	7.826	2383.8	691.1

Figures



SOURCE: Map created with TOPO! ©2001 National Geographic
 (www.nationalgeographic.com/topo)



Preliminary Design Investigation Report
 Gloversville (Washington Street)
 Non-Owned Former MGP Site
 Gloversville, New York

nationalgrid



SITE LOCATION MAP

Project 115130

December 2014

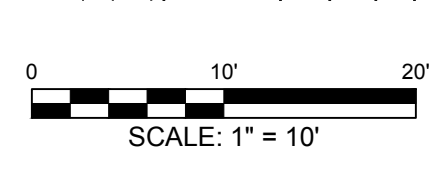
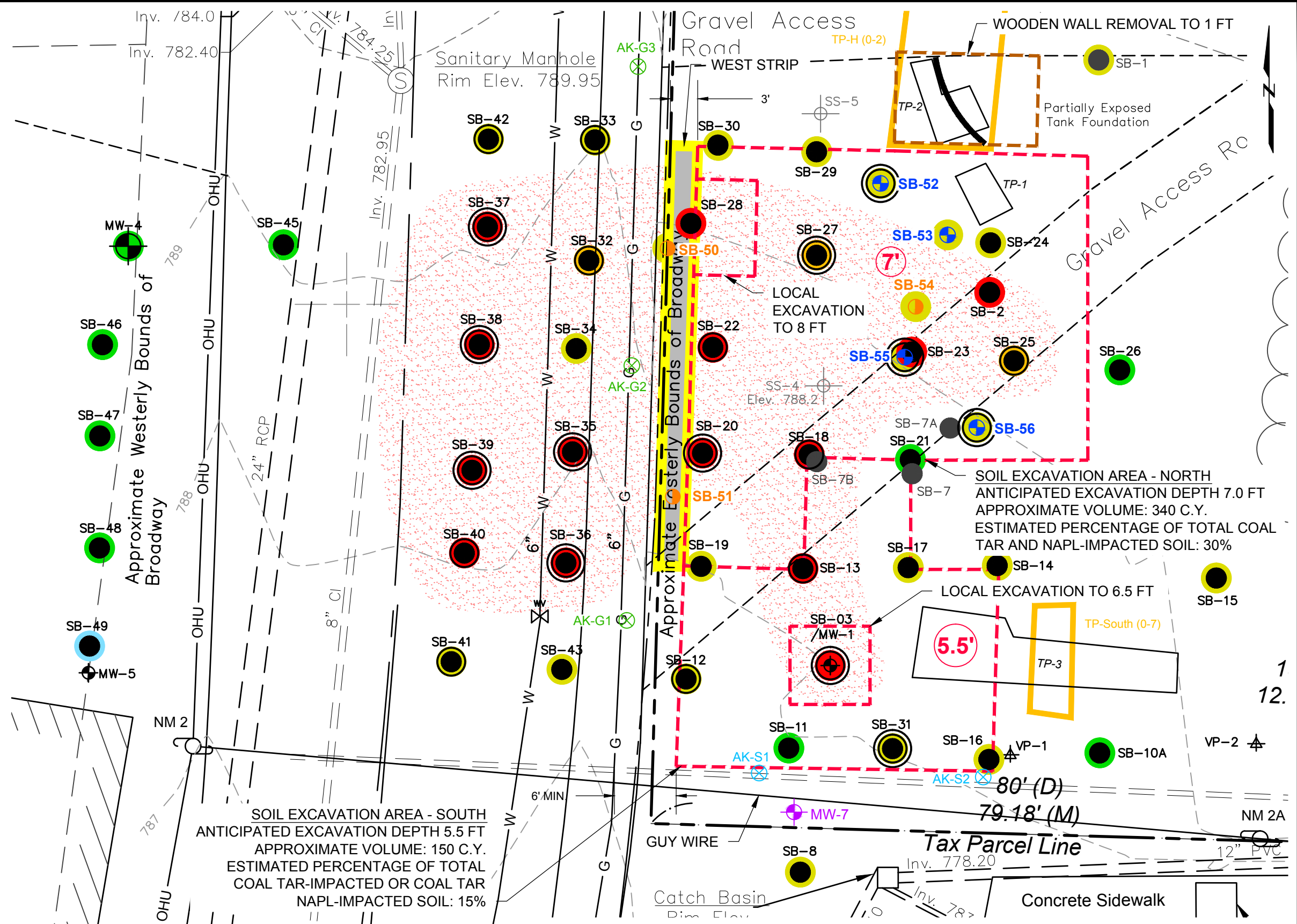
Figure 1

LEGEND:

- PROPERTY LINE
- EDGE OF GRAVEL
- MW-1 MONITORING WELL
- SB-14 RI SOIL BORING
- ▲ VP-1 SOIL VAPOR PROBE
- SS-1 PREVIOUS SURFACE SOIL SAMPLE
- TP-1 TEST PIT
- ESTIMATED HORIZONTAL LIMITS OF COAL TAR OR COAL TAR NAPL-IMPACTED SOIL
- SB-14 INDICATES SOIL SAMPLE YIELDING TOTAL PAH CONCENTRATIONS EXCEEDING 500 mg/kg
- SB-41 INDICATES SOIL SAMPLE YIELDING TOTAL PAH CONCENTRATIONS EXCEEDING 100 mg/kg
- WOODEN WALL REMOVAL
- EXCAVATION AREA
- MW-6 PROPOSED MONITORING WELL
- ⊗ AIR KNIFE TO LOCATE GAS LINE AND SURVEY
- ⊗ AIR KNIFE TO LOCATE SANITARY SEWER AND SURVEY
- GEOTECHNICAL BORINGS
- PDI SOIL BORINGS
- TEST PIT

MGP IMPACT COLORS:

- TAR SATURATED
- BLEBS, GLOBS, SHEEN
- STAINING, ODOR
- PETROLEUM IMPACTS - SHEEN, STAINING, ODORS
- NO OBSERVED IMPACTS



SOURCES:

- FIGURE IS BASED ON MAP TITLED, "FIGURE 1A, CURRENT SITE CONDITIONS" PREPARED BY TRC, SCALE 1"=30'. DATED 05/19/11.
- PDI SAMPLE LOCATIONS FROM SURVEY BY THEW ASSOCIATES, LAND SURVEYORS, DATED 9/10/14.

Preliminary Design Investigation Report Gloversville (Washington Street) Non-Owned Former MGP Site Gloversville, New York 		INVESTIGATION LOCATIONS
		Project 115130 December 2014 Fig. 2

Appendix A

CAMP Data

CAMP Station Real Time Air Monitoring Results

Site: Caloversville, NY

Date: 9/2/14

Weather: Partly Cloudy, humid

Location	Time	CAMP PID (ppm)	CAMP Particulate (mg/m3)	Wind Direction	Work Zone PID (ppm)	Work Zone Particulate (mg/m3)	Activity	Location	Time	CAMP PID (ppm)	CAMP Particulate (mg/m3)	Wind Direction	Work Zone PID (ppm)	Work Zone Particulate (mg/m3)	Activity
UP	700							UP	1300						
DN	700							DN	1300						
UP	715							UP	1315						
DN	715							DN	1315						
UP	730							UP	1330	0.1	-0.001	SW			Pre Clear
DN	730							DN	1330	0.8	0.087	SW			Pre Clear
UP	745							UP	1345						
DN	745							DN	1345						
UP	800							UP	1400	0.8	0.030	SW			Pre Clear
DN	800							DN	1400	0.1	-0.004	SW			Pre Clear
UP	815							UP	1415						
DN	815							DN	1415						
UP	830							UP	1430						
DN	830							DN	1430						
UP	845							UP	1445						
DN	845							DN	1445						
UP	900							UP	1500	0.1	0.061	SW			Pre Clear
DN	900							DN	1500	0.8	0.025	SW			Pre Clear
UP	915							UP	1515						
DN	915							DN	1515						
UP	930							UP	1530						
DN	930							DN	1530						
UP	945							UP	1545						
DN	945							DN	1545						
UP	1000							UP	1600	0.2	-0.005	SW			Pre Clear
DN	1000							DN	1600	0.7	0.038	SW			Pre Clear
UP	1015							UP	1615						
DN	1015							DN	1615						
UP	1030	0.0	0.031	SW	0.0		Pre Clear	UP	1630						
DN	1030	0.2	0.068	SW			Pre Clear	DN	1630						
UP	1045							UP	1645		-0.005	SW			PID Bat. Dead
DN	1045							DN	1645	0.6	0.030	SW			Pre Clear
UP	1100	0.0	0.034	SW	0.0		Pre Clear	UP	1700						
DN	1100	0.6	0.047	SW			Pre Clear	DN	1700						
UP	1115							UP	1715						
DN	1115							DN	1715						
UP	1130							UP	1730						
DN	1130							DN	1730						
UP	1145							UP	1745						
DN	1145							DN	1745						
UP	1200							UP	1800						
DN	1200	0.9	0.061	SW			Pre Clear	DN	1800						
UP	1215	0.0	0.000	SW			Pre Clear	UP	1815						
DN	1215							DN	1818						
UP	1230							UP	1830						
DN	1230							DN	1830						
UP	1245							UP	1845						
DN	1245							DN	1845						

Comments: Calibrate CAMP -1000


UP PID - Zero Cal = 0.0, ISO Cal = 99.7-99.6

Soil PID: Zero Cal = 0.0, ISO Cal = 100

DN PID - Zero Cal = 0.0, ISO Cal = 100-102

UP - PID Bat dead @ 1645.

Shut Down CAMP at 1645

Monitoring Completed By: Jerry Peake, 

GEI Consultants

CAMP Station Real Time Air Monitoring Station Locations

Site: *Gloucesterville, NY*

Date: *9/2/14*

Site Map With Upwind and Downwind Sample Locations



CAMP Station Real Time Air Monitoring Results

Site: Gloversville, NY

Date: 9/3/14

Weather: Clear, 72°

Location	Time	CAMP PID (ppm)	CAMP Particulate (mg/m3)	Wind Direction	Work Zone PID (ppm)	Work Zone Particulate (mg/m3)	Activity	Location	Time	CAMP PID (ppm)	CAMP Particulate (mg/m3)	Wind Direction	Work Zone PID (ppm)	Work Zone Particulate (mg/m3)	Activity
UP	700							UP	1300						
DN	700							DN	1300						
UP	715							UP	1315						
DN	715							DN	1315						
UP	730							UP	1330						
DN	730							DN	1330						
UP	745	0.0	0.031	SW			Pre Clear	UP	1345						
DN	745	0.0	0.024	SW			Pre Clear	DN	1345						
UP	800							UP	1400	0.1	-0.008	SW			Soil Boring
DN	800							DN	1400	0.5	0.013	SW			Soil Boring
UP	815							UP	1415						
DN	815							DN	1415						
UP	830	0.0	0.007	SW			Pre Clear	UP	1430						
DN	830	0.3	0.015	SW			Pre Clear	DN	1430						
UP	845							UP	1445						
DN	845							DN	1445						
UP	900	0.0	0.001	SW			Pre Clear	UP	1500						
DN	900	0.3	0.014	SW			Pre Clear	DN	1500						
UP	915							UP	1515	0.1	-0.006	SW			Drilling
DN	915							DN	1515	0.4	0.014	SW			Drilling
UP	930							UP	1530						
DN	930							DN	1530						
UP	945							UP	1545						
DN	945							DN	1545						
UP	1000							UP	1600						
DN	1000							DN	1600						
UP	1015	0.0	-0.005	SW			Pre Clear	UP	1615	0.1	-0.008	SW			Drilling
DN	1015	0.5	0.010	SW			Pre Clear	DN	1615	0.4	0.012	SW			Drilling
UP	1030						Pre Clear	UP	1630						
DN	1030							DN	1630						
UP	1045							UP	1645						
DN	1045							DN	1645						
UP	1100	0.0	-0.006	SW			Pre Clear	UP	1700	0.0	0.011	SW			Clean up
DN	1100	0.5	0.011	SW			Pre Clear	DN	1700	0.4	0.014	SW			Clean up
UP	1115							UP	1715						
DN	1115							DN	1715						
UP	1130							UP	1730						
DN	1130							DN	1730						
UP	1145							UP	1745						
DN	1145							DN	1745						
UP	1200							UP	1800						
DN	1200							DN	1800						
UP	1215							UP	1815						
DN	1215							DN	1815						
UP	1230	0.1	-0.007	SW			Drill Setup	UP	1830						
DN	1230	0.6	0.017	SW			Drill Setup	DN	1830						
UP	1245							UP	1845						
DN	1245							DN	1845						

Comments: CAMP Setup, started at 0730 - Shut down CAMP at 1710

Monitoring Completed By: Jerry Peake - 

GEI Consultants

CAMP Station Real Time Air Monitoring Station Locations

Site: Gloversville, NY

Date: 9/3/14

Site Map With Upwind and Downwind Sample Locations



CAMP Station Real Time Air Monitoring Results

Site: Gloversville NY

Date: 9/4/14

Weather: Partly cloudy, 60°

Location	Time	CAMP PID (ppm)	CAMP Particulate (mg/m3)	Wind Direction	Work Zone PID (ppm)	Work Zone Particulate (mg/m3)	Activity	Location	Time	CAMP PID (ppm)	CAMP Particulate (mg/m3)	Wind Direction	Work Zone PID (ppm)	Work Zone Particulate (mg/m3)	Activity
UP	700							UP	1300						
DN	700							DN	1300						
UP	715							UP	1315	0.1	0.017	SW			Slug test
DN	715							DN	1315	0.5	0.021	SW			Slug test
UP	730							UP	1330						
DN	730							DN	1330						
UP	745	0.0	0.031	SW			Testing	UP	1345						
DN	745	0.1	0.031	SW			Testing	DN	1345						
UP	800							UP	1400						
DN	800							DN	1400						
UP	815							UP	1415						
DN	815							DN	1415						
UP	830	0.4	0.031	S			Recharge	UP	1430	0.1	0.017	SW			Drilling
DN	830	0.4	0.021	S			Testing	DN	1430	0.5	0.021	SW			Drilling
UP	845							UP	1445						
DN	845							DN	1445						
UP	900							UP	1500						
DN	900							DN	1500						
UP	915							UP	1515						
DN	915							DN	1515						
UP	930							UP	1530						
DN	930							DN	1530						
UP	945	0.1	0.016	SW			Drilling	UP	1545	0.1	0.019	SW			Drilling
DN	945	0.8	0.013	SW			Drilling	DN	1545	0.3	0.023	SW			Drilling
UP	1000							UP	1600						
DN	1000							DN	1600						
UP	1015							UP	1615	0.2	0.019	SW			Clean up
DN	1015							DN	1615	0.3	0.020	SW			Clean up
UP	1030							UP	1630						
DN	1030							DN	1630						
UP	1045	0.0	0.010	SW			Drilling	UP	1645						
DN	1045	0.7	0.011	SW			Drilling	DN	1645						
UP	1100							UP	1700						
DN	1100							DN	1700						
UP	1115							UP	1715						
DN	1115							DN	1715						
UP	1130							UP	1730						
DN	1130							DN	1730						
UP	1145	0.2	0.016	SW			Test pit	UP	1745						
DN	1145	0.6	0.018	SW			Test pit	DN	1745						
UP	1200							UP	1800						
DN	1200							DN	1800						
UP	1215							UP	1815						
DN	1215							DN	1818						
UP	1230	0.1	0.017	SW			Well set up	UP	1830						
DN	1230						Well set up	DN	1830						
UP	1245							UP	1845						
DN	1245							DN	1845						

Comments: CAMP monitoring begins @ 730. Shut down CAMP at 1615.

Monitoring Completed By: J. Peake - 

GEI Consultants

CAMP Station Real Time Air Monitoring Station Locations

Site: *Gloversville, NY*

Date: *9/2/14*

Site Map With Upwind and Downwind Sample Locations



CAMP Station Real Time Air Monitoring Results

Site: Gloversville, NY

Date: 9/5/14

Weather: clear, 70°

Location	Time	CAMP PID (ppm)	CAMP Particulate (mg/m3)	Wind Direction	Work Zone PID (ppm)	Work Zone Particulate (mg/m3)	Activity	Location	Time	CAMP PID (ppm)	CAMP Particulate (mg/m3)	Wind Direction	Work Zone PID (ppm)	Work Zone Particulate (mg/m3)	Activity
UP	700							UP	1300						
DN	700							DN	1300						
UP	715							UP	1315						
DN	715							DN	1315						
UP	730							UP	1330						
DN	730							DN	1330						
UP	745							UP	1345						
DN	745							DN	1345						
UP	800	0.0	0.069	SW			Drilling	UP	1400						
DN	800	0.1	0.071	SW			Drilling	DN	1400						
UP	815							UP	1415						
DN	815							DN	1415						
UP	830							UP	1430						
DN	830							DN	1430						
UP	845							UP	1445						
DN	845							DN	1445						
UP	900							UP	1500						
DN	900							DN	1500						
UP	915	0.0	0.040	SW			Test Pitting	UP	1515						
DN	915	0.5	0.044	SW			Test Pitting	DN	1515						
UP	930							UP	1530						
DN	930							DN	1530						
UP	945							UP	1545						
DN	945							DN	1545						
UP	1000							UP	1600						
DN	1000							DN	1600						
UP	1015	0.0	0.038	SW			Drilling	UP	1615						
DN	1015	0.3	0.043	SW			Drilling	DN	1615						
UP	1030							UP	1630						
DN	1030							DN	1630						
UP	1045							UP	1645						
DN	1045							DN	1645						
UP	1100							UP	1700						
DN	1100							DN	1700						
UP	1115							UP	1715						
DN	1115							DN	1715						
UP	1130							UP	1730						
DN	1130							DN	1730						
UP	1145							UP	1745						
DN	1145							DN	1745						
UP	1200							UP	1800						
DN	1200							DN	1800						
UP	1215							UP	1815						
DN	1215							DN	1815						
UP	1230							UP	1830						
DN	1230							DN	1830						
UP	1245							UP	1845						
DN	1245							DN	1845						

Comments: Begin CAMP monitoring at 0720. LW PID alarm - Lamp - at 0725. Inspect, Clean and restart LW PID at 0745

Monitoring Completed By: Jerry Paake *Jerry Paake*

GEI Consultants

CAMP Station Real Time Air Monitoring Station Locations

Site: Gloversville, NY

Date: 9/5/14

Site Map With Upwind and Downwind Sample Locations



Appendix B

Soil Boring and Test Pit Logs



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 1

AK-G1

GROUND SURFACE ELEVATION (FT): 785.40 LOCATION: AK-G1
 NORTHING (FT): 1535869 EASTING (FT): 533527 TOTAL DEPTH (FT): 5.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/2/2014 - 9/2/2014
 DRILLING DETAILS: Hollow Stem Auger / VOC Master System 4000
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO			STRATA	VISUAL IMPACTS	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	PID (ppm)			
0	0	0-5	5.0/5.0				TOPSOIL, concrete.
785				0.2			NARROWLY GRADED SAND (SP); ~90% sand, fine, ~10% fines; dry to moist, light brown, FILL.
				0.1			
				0.1			
	5						End of Boring at 5 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE
1 of 1

AK-G2

GROUND SURFACE ELEVATION (FT): 786.50 LOCATION: AK-G2
 NORTHING (FT): 1535894 EASTING (FT): 533528 TOTAL DEPTH (FT): 2.5
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/2/2014 - 9/2/2014
 DRILLING DETAILS: Hand Auger / VOC Master System 4000
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO			STRATA	VISUAL IMPACTS	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	PID (ppm)			
	0	0-2.5	2.5/2.5				CONCRETE.
				0.1			NARROWLY GRADED SAND (SP); ~90% sand, fine, ~10% fines; dry to moist, light brown, FILL.
785				0.0			

End of Boring at 2.5 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 1

AK-G3

GROUND SURFACE ELEVATION (FT): 787.20 LOCATION: AK-G2
 NORTHING (FT): 1535923 EASTING (FT): 533528 TOTAL DEPTH (FT): 2.5
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/2/2014 - 9/2/2014
 DRILLING DETAILS: Hand Auger / VOC Master System 4000
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO			STRATA	VISUAL IMPACTS	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	PID (ppm)			
0	0-2.5		2.5/2.5			CONCRETE.	
				0.1		NARROWLY GRADED SAND WITH SILT (SP); ~90% sand, fine, ~10% fines; dry to moist, light brown, FILL.	
				0.1			
785							

End of Boring at 2.5 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 1

AK-S1

GROUND SURFACE ELEVATION (FT): 783.60 LOCATION: AK-S1
 NORTHING (FT): 1535855 EASTING (FT): 533540 TOTAL DEPTH (FT): 5.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/2/2014 - 9/2/2014
 DRILLING DETAILS: Hand Auger / VOC Master System 4000
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO			STRATA	VISUAL IMPACTS	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	PID (ppm)			
	0	0-5	5.0/5.0				TOPSOIL.
				0.1			NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~15% fines, ~5% gravel, fine to coarse, subrounded; moist to wet, brown, FILL, many brick fragments.
				0.1			
				0.1			
	780						
	5						End of Boring at 5 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 1

AK-S2

GROUND SURFACE ELEVATION (FT): 784.00 LOCATION: AK-S2
 NORTHING (FT): 1535854 EASTING (FT): 533562 TOTAL DEPTH (FT): 5.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/2/2014 - 9/2/2014
 DRILLING DETAILS: Hand Auger / VOC Master System 4000
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO			STRATA	VISUAL IMPACTS	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	PID (ppm)			
	0	0-5	5.0/5.0				TOPSOIL.
				0.2			NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~5% gravel, fine to coarse, subrounded, ~5% fines; moist to wet, brown, FILL, many brick fragments.
				0.1			
				0.1			
780							
	5						End of Boring at 5 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 2

SB-50

GROUND SURFACE ELEVATION (FT): 789.60 LOCATION: SB-50
 NORTHING (FT): 1535905 EASTING (FT): 533531 TOTAL DEPTH (FT): 26.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/3/2014 - 9/5/2014
 DRILLING DETAILS: Hollow Stem Auger / Truck Mount
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)				
0	0-3	3.0/3.0			1.4			TLO	TOPSOIL. NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~10% gravel, fine to coarse, subrounded, ~10% fines; slight tar-like odor, dry to moist, FILL, many brick and wood fragments.
					0.2				
									Blind auger - no sampling conducted.
785	4-6	2.0/1.6			94.6			TLO	NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine, ~20% fines; moderate tar-like odor, moist to wet, dark brown, blackish-brown staining throughout, few ash and brick fragments.
5				1-2-1-1	30.8				
	6-8	2.0/1.4		1-1-1-1	32.5			TLO	NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine, ~20% fines; moderate tar-like odor, wet, dark brown, blackish-brown staining.
					323			TLO	SILT WITH SAND (ML); ~75% fines, ~25% sand, fine; moderate tar-like odor, wet, light brown, blackish-brown staining.
	8-10	2.0/1.9		2-2-10-12	34.6			TLO	SILT WITH SAND (ML); ~75% fines, ~25% sand, fine; moderate tar-like odor, wet, light brown, blackish-brown staining.
780					27.2			TLO	SILT WITH SAND (ML); ~75% fines, ~25% sand, fine; slight tar-like odor, wet, light brown.
10	10-12	2.0/0.6		2-2-4-5	31.0			TLO	SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; slight tar-like odor, wet, light brown.
					51.2				
	12-14	2.0/1.2		7-7-7-5	21.3			TLO	SILT WITH SAND (ML); ~75% fines, ~25% sand, fine; slight tar-like odor, wet, light brown.
					18.1				
775	14-16	2.0/0.7		7-7-5-4	14.2				
15									

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO = CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH = WEIGHT OF HAMMER
 WOR = WEIGHT OF RODS

CANASTOTA LOG GLOVERSVILLE 2014.GPJ NG.GINT DATA TEMPLATE.GDT 12/1/14



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 2 of 2

SB-50

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)				
	15				7.8				
	16-18	2.0/1.1	5-4-4-3	10.3			TLO	SILT WITH SAND (ML); ~75% fines, ~25% sand, fine; slight tar-like odor, wet, light brown.	
				2.4					
	18-20	2.0/1.7	4-5-5-7	17.1				NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine, ~20% fines; wet, brown.	
				1.1					
770	20	2.0/2.0	5-5-11-11	97.8				NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine, ~20% fines; wet, light brown.	
				3.8					
	22-24	2.0/2.0	3-5-3-5	14.2					
				14.0					
	24-26	2.0/2.0	10-11-11-15	15.2					
765	25			1.8					

End of Boring at 26 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO = CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 2

SB-51

GROUND SURFACE ELEVATION (FT): 788.30 LOCATION: SB-51
 NORTHING (FT): 1535881 EASTING (FT): 533532 TOTAL DEPTH (FT): 26.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/3/2014 - 9/4/2014
 DRILLING DETAILS: Hollow Stem Auger / Truck Mount
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)				
0	0-3	4.0/3.0					TLO	TOPSOIL. NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~10% gravel, fine to coarse, subrounded, ~10% fines; slight tar-like odor, dry to moist, brown, FILL, many brick fragments.	
					0.1				
					0.2				
-785								Blind auger - no sampling conducted.	
	4-6	2.0/0.4	4-2-4-8	72.2			TLO	NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~10% gravel, fine to coarse, subrounded, ~10% fines; slight tar-like odor, moist to wet, brown, FILL, many wood and brick fragments.	
5				20.2					
	6-8	2.0/1.3	8-8-6-6	3.8			TLO	SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; slight tar-like odor, wet, light brown.	
				1.5					
-780	8-10	2.0/1.6	4-5-3-4	8.1					
				5.5					
-10	10-12	2.0/1.3	4-4-4-5	0.4				SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; wet, light brown.	
				0.0					
	12-14	2.0/1.3	4-4-5-6	0.8					
				0.4					
-775	14-16	2.0/1.7	2-3-4-4	5.3					
-15									

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS

CANASTOTA LOG GLOVERSVILLE 2014.GPJ NG GINT DATA TEMPLATE.GDT 12/1/14



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE
2 of 2

SB-51

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)				
	15				0.5	[Green shaded area]		NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine, ~20% fines; wet, light brown.	
	16-18	2.0/1.5	6-7-4-4	2.6	0.5				
	18-20	2.0/2.0	3-4-7-8	1.2	0.8				
770	20-22	2.0/2.0	8-10-15-14	1.4	0.0				
	22-24	2.0/2.0	9-10-12-16	6.5	7.4				
765	24-26	2.0/2.0	4-8-8-12	21.7					
	25			1.0					

End of Boring at 26 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 1

SB-52

GROUND SURFACE ELEVATION (FT): 789.40 LOCATION: SB-52
 NORTHING (FT): 1535912 EASTING (FT): 533552 TOTAL DEPTH (FT): 10.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/3/2014 - 9/4/2014
 DRILLING DETAILS: Hollow Stem Auger / Truck Mount
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)					
0	0-3	3.0/3.0			2.5 5.8			TLO	<p>TOPSOIL. NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~10% gravel, fine to coarse, subrounded, ~10% fines; slight tar-like odor, dry to moist, brown, FILL, many brick and wood fragments.</p> <p>Blind auger - no sampling conducted.</p>	
785	4-6	2.0/1.3	3-3-4-4	70.2	1.8			TLO TLO	<p>NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~10% gravel, fine to coarse, subrounded, ~10% fines; moderate tar-like odor, dry to moist, brown, FILL, blackish-brown staining.</p> <p>NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~15% fines, ~5% gravel, fine to coarse, subrounded; slight tar-like odor, wet, brown.</p> <p>NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~15% fines, ~5% gravel, fine to coarse, subrounded; wet, brown.</p> <p>SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; wet, light brown.</p>	
5	6	2.0/1.4	7-8-8-9	4.5	1.3					
780	8-10	2.0/1.3	9-10-10-12	4.2	0.6					
10									End of Boring at 10 feet.	

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 1

SB-53

GROUND SURFACE ELEVATION (FT): 789.30 LOCATION: SB-53
 NORTHING (FT): 1535907 EASTING (FT): 533558 TOTAL DEPTH (FT): 10.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/3/2014 - 9/4/2014
 DRILLING DETAILS: Hollow Stem Auger / Truck Mount
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)					
0	0-4	4.0/4.0			0.8				TOPSOIL.	
					0.0					
					0.0					
785	4-6	2.0/1.1	4-4-8-8	0.1					NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~10% gravel, fine to coarse, subrounded, ~10% fines; dry to moist, brown, FILL, many brick and wood fragments.	
5				5.2				Env. Sample ID= SB-53(5-6)	SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; slight tar-like odor, wet, dark brown.	
	6-8	2.0/1.4	4-6-4-7	0.0					SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; wet, light brown.	
				0.2						
	8-10	2.0/1.3	4-8-9-8	0.0						
780				0.0						
10									End of Boring at 10 feet.	

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS

CANASTOTA LOG GLOVERSVILLE 2014.GPJ NG GINT DATA TEMPLATE.GDT 12/1/14



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 2

SB-54

GROUND SURFACE ELEVATION (FT): 789.30 LOCATION: SB-54
 NORTHING (FT): 1535900 EASTING (FT): 533555 TOTAL DEPTH (FT): 26.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/3/2014 - 9/4/2014
 DRILLING DETAILS: Hollow Stem Auger / Truck Mount
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)				
0	0-3	4.0/3.0			1.4			TLO	TOPSOIL. NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~10% gravel, fine to coarse, subrounded, ~10% fines; slight tar-like odor, dry to moist, brown, FILL, many brick and wood fragments.
					2.1				Blind auger - no sampling conducted.
785	4-6	2.0/0.0	21-16-9-7	NA					No recovery.
5	6-8	2.0/0.0	4-8-8-6	NA					No recovery.
780	8-10	2.0/1.1	5-3-10-3	172.0				TLO	SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; slight tar-like odor, wet, light brown.
				28.7					
10	10-12	2.0/1.3	19-9-12-11	112.0					
				47.6					
	12-14	2.0/1.5	10-7-10-10	55.1				TLO	SILT WITH SAND (ML); ~75% fines, ~25% sand, fine; slight tar-like odor, wet, light brown.
				38.4					
775	14-16	2.0/1.0	15-12-12-6	58.2					
15									

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO = CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH = WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR = WEIGHT OF RODS

CANASTOTA LOG GLOVERSVILLE 2014.GPJ NG GINT DATA TEMPLATE.GDT 12/1/14



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE
2 of 2

SB-54

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)				
	15				12.9	[Green shaded area]		NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine, ~20% fines; wet, light brown.	
	16-18	2.0/1.6	6-6-8-8	19.8					
				12.3					
	18-20	2.0/1.7	2-5-7-7	14.6					
770				5.2					
	20-22	2.0/1.8	7-10-11-9	17.1					
				3.4					
	22-24	2.0/2.0	12-12-15-15	22.1					
				17.8					
765	24-26	2.0/2.0	8-8-11-11	27.8					
	25			47.3					

End of Boring at 26 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO = CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 1

SB-55

GROUND SURFACE ELEVATION (FT): 788.80 LOCATION: SB-55
 NORTHING (FT): 1535895 EASTING (FT): 533554 TOTAL DEPTH (FT): 10.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/3/2014 - 9/3/2014
 DRILLING DETAILS: Hollow Stem Auger / Truck Mount
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)					
0	0-4	4.0/4.0								TOPSOIL. NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~15% fines, ~5% gravel, fine to coarse, subrounded; dry to moist, brown, FILL, many brick and wood fragments.
								0.1		
								0.0		
785	4-6	2.0/0.9	9-5-6-7	0.0					TLO	NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~15% fines, ~5% gravel, fine to coarse, subrounded; moderate tar-like odor, wet, brown, FILL, many brick, coal, and wood fragments.
5									TLO	SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; moderate tar-like odor, wet, dark brown, blackish-brownish staining.
	6-8	2.0/1.5	8-8-7-10	3508					TLO	SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; moderate tar-like odor, wet, blackish-brownish staining.
									TLO	SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; moderate tar-like odor, wet, light brown.
	8-10	2.0/1.5	14-12-10-10	0.5						
780										
10										
										End of Boring at 10 feet.

Env. Sample ID= SB55(5-6)

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS

CANASTOTA LOG GLOVERSVILLE 2014.GPJ NG GINT DATA TEMPLATE.GDT 12/1/14



GEI Consultants, Inc.
1301 Trumansburg Road
Suite N
Ithaca, NY 14850
(607) 216-8955

CLIENT: National Grid
PROJECT: Gloversville PDI
CITY/STATE: Gloversville, New York
GEI PROJECT NUMBER: 115130-1-1106

WELL CONSTRUCTION LOG

PAGE 1 of 1

SB-56

GROUND SURFACE ELEVATION (FT): 789.00 LOCATION: SB-56
 NORTHING (FT): 1535888 EASTING (FT): 533561 TOTAL DEPTH (FT): 10.0
 DRILLED BY: Parratt-Wolff DATUM VERT. / HORZ.: NAVD 88 / NAD83
 LOGGED BY: G. Schmidt DATE START / END: 9/2/2014 - 9/4/2014
 DRILLING DETAILS: Hollow Stem Auger / Truck Mount
 WATER LEVEL DEPTHS (FT):
 GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFORMATION				STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
		TYPE and NO.	PEN/REC FT/FT	BLOWS (/6 in.)	PID (ppm)					
0	0-4	4.0/4.0			0.1				TOPSOIL. NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~15% fines, ~5% gravel, fine to coarse, subrounded; dry to moist, brown, FILL, many brick and wood fragments.	
785	4-6	2.0/0.5	12-20-18-14	0.1			TLO	Env. Sample ID= SB56(5-6)	NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~80% sand, fine, ~15% fines, ~5% gravel, fine to coarse, subangular; slight tar-like odor, wet, brown, FILL, many brick fragments.	
5	6-8	2.0/1.5	8-8-10-10	0.0			TLO		SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; slight tar-like odor, wet, light brown.	
	8-10	2.0/1.4	12-12-12-14	0.0					SILT WITH SAND (ML); ~70% fines, ~30% sand, fine; wet, light brown.	
780				0.0						
10									End of Boring at 10 feet.	

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 NA = NOT AVAILABLE CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
 WOH= WEIGHT OF HAMMER ALO = ASPHALT LIKE ODOR
 WOR= WEIGHT OF RODS

CANASTOTA LOG GLOVERSVILLE 2014.GPJ NG GINT DATA TEMPLATE.GDT 12/1/14



Test Pit Log

TP-H(0-2)

GEI PROJECT NO: 115130	TEST PIT DESIGNATION: TP-H(0-2)	SURFACE ELEVATION:
CLIENT: National Grid	SITE LOCATION OR AREA: Within gravel access road, approximately 30' east of Broadway	START DATE: 9/4/2014
SITE NAME: Gloversville (Washington Street)	EQUIPMENT USED: Mini Excavator	FINISH DATE: 9/4/2014
GEOLOGIST: Garrett Schmidt	OPERATOR: Parratt Wolff	START TIME: 1100
DEPTH WATER ENCOUNTERED: NA	TOTAL DEPTH: 2.5 feet	FINISH TIME: 1145

DEPTH (FEET)	SAMPLE DEPTH (FEET)	PID HEADSPACE (PPM)	SOIL LITHOLOGY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
0					FILL: (SP-SM): 0-2.5': 80% Fine SAND, 10% Fines, 10% fine to course subrounded Gravel. Dry to moist, moderate tar-like odor, brown, many brick fragments, wood fragments, and ash.	Wooden holder wall exposed approximately 6" bgs. Black, brown stained soil. Holder Diameter - 20' Holder wall width - 4.4" Test pit excavation dimensions: 20' west side, 4.5' north side, 18' east side, and 4.5' south side.
1	N/A	0.1	FILL			
2		0.4				
		0.9				



Comments: No analytical samples collected.

GEI Consultants, Inc., P.C.
 1301 Trumansburg Road
 Suite N
 Ithaca, New York 14850



Test Pit Log

TP-South (0-7)

GEI PROJECT NO: 115130	TEST PIT DESIGNATION: TP-South 0-7	SURFACE ELEVATION:
CLIENT: National Grid	SITE LOCATION OR AREA: South central portion of site	START DATE: 9/5/2014
SITE NAME: Gloversville (Washington Street)	EQUIPMENT USED: Mini Excavator	FINISH DATE: 9/5/2014
GEOLOGIST: Garrett Schmidt	OPERATOR: Parratt Wolff	START TIME: 0840
DEPTH WATER ENCOUNTERED: NA	TOTAL DEPTH: 7 feet	FINISH TIME: 0940

DEPTH (FEET)	SAMPLE DEPTH (FEET)	PID HEADSPACE (PPM)	SOIL LITHOLOGY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
0		0			Topsoil: 0-3"	Ash layer
1					Fill: (SP-SM): 3"-29": 75% Fine SAND, 15% Fines, 10% fine to course subrounded Gravel. Many Ash, Coal, Wood, and Brick fragments. Dry to moist, brown, slight tar-like odor.	
2		0.7				Many Ash, Coal, Wood, and Brick fragments
3		0	FILL		Fill: (SP-SM): 29"-5': 80% Fine SAND, 20% Fines. Moist, light brown, some brick fragments.	
4		0				Some Brick fragments
5		0.3				
6		0		ML	Silty Sand (ML) 5'-7': 75% Fines, 25% Fine SAND. Light brown, wet, slight tar-like odor.	
7		0				



Comments: No analytical samples collected	GEI Consultants, Inc., P.C. 1301 Trumansburg Road Suite N Ithaca, New York 14850
--	--

Appendix C

Laboratory Analytical Data Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-36440-1

Client Project/Site: 115130, Gloversville

For:

GEI Consultants, Inc.

1301 Trumansburg Road

Suite N

Ithaca, New York 14850

Attn: Mr. John Finn



Authorized for release by:

9/19/2014 10:26:55 AM

David Dunlap, Senior Project Manager

(412)963-2432

dave.dunlap@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	12
QC Sample Results	20
QC Association Summary	34
Chain of Custody	39
Receipt Checklists	40

Case Narrative

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Job ID: 180-36440-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-36440-1

Receipt

The samples were received on 9/6/2014 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9° C.

The soil samples for BTEX analysis were received past the 48 hour holding time for freezing of the terracore vials. The analysis was to continue as discussed with the client.

The results of the sieve analysis will be reported under separate cover.

The proctor analysis could not be completed due to insufficient sample. The client was contacted. Additional sample will not be collected.

GC/MS VOA

Method(s) 8260C: Sample SB-55 (5-6) (180-36440-2) required medium level analysis due to the concentration of target analytes. The methanol preserved terracore contained more than 10 ml of a liquid, assumed to be methanol and had a calculated sample weight of greater than 17 grams. Due to the unknown circumstances surrounding the unusual sample weight and methanol volume, an aliquot of the sample was taken from a 4oz jar, preserved in methanol, and analyzed. The sample also required subsequent dilution of the methanol extract.

Method(s) 8260C: The laboratory control sample (LCS) for analysis batch 118439 (TCLP) recovered above the control limits for the following analyte: 2-butanone. As this analyte was biased high in the LCS and was not detected in the associated sample, the results were reported.

Method(s) 8260C: The surrogate recovery of 1,2-dichloroethane-d4 was above the control limits in sample IDW SOIL (180-36440-6). As the recovery was biased high and there were no target analytes detected in the associated sample, the results were reported.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: IDW WATER (180-36440-10). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to an abundance of target analytes: SB-56 (5-6) (180-36440-1), SB-55 (5-6) (180-36440-2), and SB-52 (5-6) (180-36440-4). Elevated reporting limits (RLs) are provided. The surrogates were diluted out.

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

GC Semi VOA

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

Metals

Method(s) 6010C: The following sample was digested using reduced volume due to the sample matrix (approximately 1/8" layer of sediment in the sample): IDW WATER (180-36440-10). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method(s) 9014: The following sample was diluted to bring the concentration of target analytes within the calibration range: IDW SOIL (180-36440-5). Elevated reporting limits (RLs) are provided.

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

Definitions/Glossary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-15
Connecticut	State Program	1	PH-0688	09-30-14 *
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-15
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Pittsburgh

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-36440-1	SB-56 (5-6)	Solid	09/03/14 13:15	09/06/14 10:15
180-36440-2	SB-55 (5-6)	Solid	09/03/14 13:50	09/06/14 10:15
180-36440-3	SB-53 (5-6)	Solid	09/03/14 14:30	09/06/14 10:15
180-36440-4	SB-52 (5-6)	Solid	09/03/14 15:00	09/06/14 10:15
180-36440-5	IDW SOIL	Solid	09/05/14 09:45	09/06/14 10:15
180-36440-6	IDW SOIL	Solid	09/05/14 09:45	09/06/14 10:15
180-36440-10	IDW WATER	Water	09/05/14 11:15	09/06/14 10:15
180-36440-11	TRIP BLANK	Water	09/05/14 00:00	09/06/14 10:15



Method Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7470A	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
7.1.2	Ignitability, Solids	SW846	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

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

Laboratory References:

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

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: SB-56 (5-6)

Date Collected: 09/03/14 13:15

Date Received: 09/06/14 10:15

Lab Sample ID: 180-36440-1

Matrix: Solid

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.769 g	5 mL	117277	09/08/14 04:18	KLG	TAL PIT
Total/NA	Analysis	8260C		1	7.769 g	5 mL	117275	09/08/14 15:23	KLG	TAL PIT
Instrument ID: CHHP3										
Total/NA	Prep	3541			15.0 g	5.0 mL	117710	09/11/14 08:25	JPM	TAL PIT
Total/NA	Analysis	8270D		25	15.0 g	5.0 mL	117819	09/12/14 15:22	VVP	TAL PIT
Instrument ID: CH733										
Total/NA	Analysis	2540G		1			117334	09/08/14 10:42	AB1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SB-55 (5-6)

Date Collected: 09/03/14 13:50

Date Received: 09/06/14 10:15

Lab Sample ID: 180-36440-2

Matrix: Solid

Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0200 g	5 mL	117477	09/09/14 13:20	PJJ	TAL PIT
Total/NA	Analysis	8260C		10	5.0200 g	5 mL	117425	09/09/14 16:14	PJJ	TAL PIT
Instrument ID: CHHP4										
Total/NA	Prep	3541	DL		15.2 g	5.0 mL	117710	09/11/14 08:25	JPM	TAL PIT
Total/NA	Analysis	8270D	DL	100	15.2 g	5.0 mL	117855	09/12/14 18:18	VVP	TAL PIT
Instrument ID: CH731										
Total/NA	Prep	3541			15.2 g	5.0 mL	117710	09/11/14 08:25	JPM	TAL PIT
Total/NA	Analysis	8270D		25	15.2 g	5.0 mL	117819	09/12/14 16:43	VVP	TAL PIT
Instrument ID: CH733										
Total/NA	Analysis	2540G		1			117334	09/08/14 10:42	AB1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SB-53 (5-6)

Date Collected: 09/03/14 14:30

Date Received: 09/06/14 10:15

Lab Sample ID: 180-36440-3

Matrix: Solid

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7836 g	5 mL	117277	09/08/14 04:18	KLG	TAL PIT
Total/NA	Analysis	8260C		1	6.7836 g	5 mL	117275	09/08/14 14:38	KLG	TAL PIT
Instrument ID: CHHP3										
Total/NA	Prep	3541			15.1 g	5.0 mL	117710	09/11/14 08:25	JPM	TAL PIT
Total/NA	Analysis	8270D		1	15.1 g	5.0 mL	117819	09/12/14 17:10	VVP	TAL PIT
Instrument ID: CH733										
Total/NA	Analysis	2540G		1			117347	09/08/14 11:33	AB1	TAL PIT
Instrument ID: NOEQUIP										

TestAmerica Pittsburgh

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: SB-52 (5-6)

Lab Sample ID: 180-36440-4

Date Collected: 09/03/14 15:00

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.3039 g	5 mL	117277	09/08/14 04:18	KLG	TAL PIT
Total/NA	Analysis	8260C		1	12.3039 g	5 mL	117275	09/08/14 15:01	KLG	TAL PIT
Instrument ID: CHHP3										
Total/NA	Prep	3541			15.2 g	5.0 mL	117710	09/11/14 08:25	JPM	TAL PIT
Total/NA	Analysis	8270D		150	15.2 g	5.0 mL	117855	09/12/14 17:20	VVP	TAL PIT
Instrument ID: CH731										
Total/NA	Analysis	2540G		1			117347	09/08/14 11:33	AB1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: IDW SOIL

Lab Sample ID: 180-36440-5

Date Collected: 09/05/14 09:45

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 73.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	117602	09/10/14 11:36	JPM	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	117665	09/11/14 02:30	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	117666	09/11/14 02:31	JMO	TAL PIT
Total/NA	Analysis	8082A		1	15.2 g	20.0 mL	117960	09/14/14 06:58	AKG	TAL PIT
Instrument ID: CHGC8										
TCLP	Leach	1311			100.12 g	2000 mL	117765	09/11/14 12:35	JWS	TAL PIT
TCLP	Prep	3010A			5 mL	50 mL	117988	09/14/14 10:18	SLB	TAL PIT
TCLP	Analysis	6010C		1	5 mL	50 mL	118084	09/15/14 08:29	RJG	TAL PIT
Instrument ID: C										
TCLP	Leach	1311			100.12 g	2000 mL	117765	09/11/14 12:35	JWS	TAL PIT
TCLP	Prep	7470A			50 mL	50 mL	118040	09/15/14 07:29	LEM	TAL PIT
TCLP	Analysis	7470A		1	50 mL	50 mL	118114	09/15/14 14:07	LEM	TAL PIT
Instrument ID: K										
Total/NA	Analysis	2540G		1			117347	09/08/14 11:33	AB1	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	7.1.2		1			117905	09/12/14 12:09	SJK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	9010C			1.02 g	50 mL	117378	09/09/14 07:00	PGJ	TAL PIT
Total/NA	Analysis	9014		10	1.02 g	50 mL	117466	09/09/14 10:31	PGJ	TAL PIT
Instrument ID: KONELAB1										

Client Sample ID: IDW SOIL

Lab Sample ID: 180-36440-6

Date Collected: 09/05/14 09:45

Matrix: Solid

Date Received: 09/06/14 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.0 g	500.0 mL	118260	09/16/14 17:30	CBY	TAL PIT
TCLP	Analysis	8260C		1	0.125 mL	5 mL	118439	09/18/14 10:32	KLG	TAL PIT
Instrument ID: CHHP7										

TestAmerica Pittsburgh

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: IDW WATER

Lab Sample ID: 180-36440-10

Date Collected: 09/05/14 11:15

Matrix: Water

Date Received: 09/06/14 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	5 mL	5 mL	118072	09/15/14 21:15	DLF	TAL PIT
Instrument ID: CHHP6										
Total/NA	Prep	3510C			120 mL	5.0 mL	117638	09/10/14 12:20	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	117662	09/11/14 02:25	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	117664	09/11/14 02:28	JMO	TAL PIT
Total/NA	Analysis	8082A		1	120 mL	5.0 mL	117960	09/14/14 02:41	AKG	TAL PIT
Instrument ID: CHGC8										
Total Recoverable	Prep	3005A			5 mL	50 mL	117396	09/09/14 06:22	SLB	TAL PIT
Total Recoverable	Analysis	6010C		1	5 mL	50 mL	118028	09/12/14 15:31	RJG	TAL PIT
Instrument ID: C										
Total/NA	Prep	7470A			50 mL	50 mL	117447	09/09/14 09:57	LEM	TAL PIT
Total/NA	Analysis	7470A		1	50 mL	50 mL	117489	09/09/14 13:15	LEM	TAL PIT
Instrument ID: K										

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-36440-11

Date Collected: 09/05/14 00:00

Matrix: Water

Date Received: 09/06/14 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	117993	09/14/14 14:08	DLF	TAL PIT
Instrument ID: CHHP6										

Laboratory References:

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

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Analyst References:

Lab: TAL PIT

Batch Type: Leach

CBY = Charles Yushinski

JMO = John Oravec

JWS = Jim Swanson

Batch Type: Prep

CBY = Charles Yushinski

JPM = Jeremy Merriman

KLG = Kathy Gordon

LEM = Lauren McGrath

PGJ = Paul Johnson

PJJ = Patrick Journet

SLB = Sandy Becker

Batch Type: Analysis

AB1 = Ashwin Baikadi

AKG = Ashok Gupta

DLF = Donald Ferguson

KLG = Kathy Gordon

LEM = Lauren McGrath

PGJ = Paul Johnson

PJJ = Patrick Journet

RJG = Rob Good

SJK = Sarah Kunkle

VVP = Vincent Piccolino

1

2

3

4

5

6

7

8

9

10

11

12

13

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: SB-56 (5-6)

Lab Sample ID: 180-36440-1

Date Collected: 09/03/14 13:15

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 76.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.014		0.0042	0.00057	mg/Kg	☼	09/08/14 04:18	09/08/14 15:23	1
Ethylbenzene	0.073		0.0042	0.00054	mg/Kg	☼	09/08/14 04:18	09/08/14 15:23	1
Toluene	0.069		0.0042	0.00061	mg/Kg	☼	09/08/14 04:18	09/08/14 15:23	1
Xylenes, Total	0.16		0.013	0.0019	mg/Kg	☼	09/08/14 04:18	09/08/14 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		63 - 120				09/08/14 04:18	09/08/14 15:23	1
Dibromofluoromethane (Surr)	109		68 - 121				09/08/14 04:18	09/08/14 15:23	1
1,2-Dichloroethane-d4 (Surr)	113		52 - 124				09/08/14 04:18	09/08/14 15:23	1
Toluene-d8 (Surr)	104		72 - 127				09/08/14 04:18	09/08/14 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	18		2.2	0.21	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Acenaphthylene	9.6		2.2	0.25	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Anthracene	32		2.2	0.21	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Benzo[a]anthracene	68		2.2	0.27	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Benzo[a]pyrene	45		2.2	0.22	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Benzo[b]fluoranthene	47		2.2	0.34	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Benzo[g,h,i]perylene	20		2.2	0.22	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Benzo[k]fluoranthene	21		2.2	0.44	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Chrysene	61		2.2	0.26	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Dibenz(a,h)anthracene	8.5		2.2	0.24	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Fluoranthene	83		2.2	0.23	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Fluorene	22		2.2	0.29	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Indeno[1,2,3-cd]pyrene	19		2.2	0.22	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
2-Methylnaphthalene	13		2.2	0.20	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Naphthalene	26		2.2	0.19	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Phenanthrene	120		2.2	0.35	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Pyrene	78		2.2	0.22	mg/Kg	☼	09/11/14 08:25	09/12/14 15:22	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	D X	35 - 105				09/11/14 08:25	09/12/14 15:22	25
Nitrobenzene-d5 (Surr)	0	D X	25 - 104				09/11/14 08:25	09/12/14 15:22	25
Terphenyl-d14 (Surr)	0	D X	25 - 127				09/11/14 08:25	09/12/14 15:22	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.10	0.10	%			09/08/14 10:42	1
Percent Solids	77		0.10	0.10	%			09/08/14 10:42	1

Client Sample ID: SB-55 (5-6)

Lab Sample ID: 180-36440-2

Date Collected: 09/03/14 13:50

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 73.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.5		3.4	0.67	mg/Kg	☼	09/09/14 13:20	09/09/14 16:14	10
Ethylbenzene	3.9		3.4	0.42	mg/Kg	☼	09/09/14 13:20	09/09/14 16:14	10
Toluene	26		3.4	0.57	mg/Kg	☼	09/09/14 13:20	09/09/14 16:14	10

TestAmerica Pittsburgh

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: SB-55 (5-6)

Lab Sample ID: 180-36440-2

Date Collected: 09/03/14 13:50

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	24		10	1.3	mg/Kg	☼	09/09/14 13:20	09/09/14 16:14	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		63 - 120				09/09/14 13:20	09/09/14 16:14	10
Dibromofluoromethane (Surr)	78		68 - 121				09/09/14 13:20	09/09/14 16:14	10
1,2-Dichloroethane-d4 (Surr)	71		52 - 124				09/09/14 13:20	09/09/14 16:14	10
Toluene-d8 (Surr)	106		72 - 127				09/09/14 13:20	09/09/14 16:14	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	85		2.3	0.22	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Acenaphthylene	170		2.3	0.26	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Anthracene	91		2.3	0.22	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Benzo[a]anthracene	56		2.3	0.28	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Benzo[a]pyrene	33		2.3	0.22	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Benzo[b]fluoranthene	30		2.3	0.35	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Benzo[g,h,i]perylene	15		2.3	0.22	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Benzo[k]fluoranthene	7.4		2.3	0.45	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Chrysene	52		2.3	0.27	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Dibenz(a,h)anthracene	6.4		2.3	0.25	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Fluoranthene	96		2.3	0.24	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Fluorene	120		2.3	0.30	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Indeno[1,2,3-cd]pyrene	12		2.3	0.23	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
2-Methylnaphthalene	380		2.3	0.20	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Naphthalene	640	E	2.3	0.19	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Phenanthrene	390		2.3	0.36	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Pyrene	110		2.3	0.23	mg/Kg	☼	09/11/14 08:25	09/12/14 16:43	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	D X	35 - 105				09/11/14 08:25	09/12/14 16:43	25
Nitrobenzene-d5 (Surr)	0	D X	25 - 104				09/11/14 08:25	09/12/14 16:43	25
Terphenyl-d14 (Surr)	0	D X	25 - 127				09/11/14 08:25	09/12/14 16:43	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	82		9.0	0.86	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Acenaphthylene	170		9.0	1.0	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Anthracene	75		9.0	0.88	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Benzo[a]anthracene	56		9.0	1.1	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Benzo[a]pyrene	32		9.0	0.90	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Benzo[b]fluoranthene	24		9.0	1.4	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Benzo[g,h,i]perylene	15		9.0	0.89	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Benzo[k]fluoranthene	14		9.0	1.8	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Chrysene	51		9.0	1.1	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Dibenz(a,h)anthracene	5.0	J	9.0	1.0	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Fluoranthene	86		9.0	0.96	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Fluorene	110		9.0	1.2	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Indeno[1,2,3-cd]pyrene	11		9.0	0.92	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
2-Methylnaphthalene	410		9.0	0.81	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Naphthalene	730		9.0	0.77	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100

TestAmerica Pittsburgh

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: SB-55 (5-6)

Lab Sample ID: 180-36440-2

Date Collected: 09/03/14 13:50

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	420		9.0	1.4	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Pyrene	120		9.0	0.91	mg/Kg	☼	09/11/14 08:25	09/12/14 18:18	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	D X	35 - 105				09/11/14 08:25	09/12/14 18:18	100
Nitrobenzene-d5 (Surr)	0	D X	25 - 104				09/11/14 08:25	09/12/14 18:18	100
Terphenyl-d14 (Surr)	0	D X	25 - 127				09/11/14 08:25	09/12/14 18:18	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		0.10	0.10	%			09/08/14 10:42	1
Percent Solids	73		0.10	0.10	%			09/08/14 10:42	1

Client Sample ID: SB-53 (5-6)

Lab Sample ID: 180-36440-3

Date Collected: 09/03/14 14:30

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 75.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0014	J	0.0049	0.00066	mg/Kg	☼	09/08/14 04:18	09/08/14 14:38	1
Ethylbenzene	0.0012	J	0.0049	0.00063	mg/Kg	☼	09/08/14 04:18	09/08/14 14:38	1
Toluene	0.0066		0.0049	0.00071	mg/Kg	☼	09/08/14 04:18	09/08/14 14:38	1
Xylenes, Total	0.0081	J	0.015	0.0022	mg/Kg	☼	09/08/14 04:18	09/08/14 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		63 - 120				09/08/14 04:18	09/08/14 14:38	1
Dibromofluoromethane (Surr)	103		68 - 121				09/08/14 04:18	09/08/14 14:38	1
1,2-Dichloroethane-d4 (Surr)	108		52 - 124				09/08/14 04:18	09/08/14 14:38	1
Toluene-d8 (Surr)	96		72 - 127				09/08/14 04:18	09/08/14 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20		0.088	0.0084	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Acenaphthylene	0.49		0.088	0.010	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Anthracene	0.40		0.088	0.0086	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Benzo[a]anthracene	0.58		0.088	0.011	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Benzo[a]pyrene	0.47		0.088	0.0088	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Benzo[b]fluoranthene	0.52		0.088	0.014	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Benzo[g,h,i]perylene	0.27		0.088	0.0088	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Benzo[k]fluoranthene	0.21		0.088	0.018	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Chrysene	0.53		0.088	0.010	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Dibenz(a,h)anthracene	0.096		0.088	0.0098	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Fluoranthene	0.86		0.088	0.0094	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Fluorene	0.41		0.088	0.012	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Indeno[1,2,3-cd]pyrene	0.26		0.088	0.0091	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
2-Methylnaphthalene	0.25		0.088	0.0079	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Naphthalene	0.20		0.088	0.0076	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Phenanthrene	1.3		0.088	0.014	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1
Pyrene	0.78		0.088	0.0089	mg/Kg	☼	09/11/14 08:25	09/12/14 17:10	1

TestAmerica Pittsburgh

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: SB-53 (5-6)

Lab Sample ID: 180-36440-3

Date Collected: 09/03/14 14:30

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 75.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		35 - 105	09/11/14 08:25	09/12/14 17:10	1
Nitrobenzene-d5 (Surr)	79		25 - 104	09/11/14 08:25	09/12/14 17:10	1
Terphenyl-d14 (Surr)	74		25 - 127	09/11/14 08:25	09/12/14 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		0.10	0.10	%			09/08/14 11:33	1
Percent Solids	75		0.10	0.10	%			09/08/14 11:33	1

Client Sample ID: SB-52 (5-6)

Lab Sample ID: 180-36440-4

Date Collected: 09/03/14 15:00

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 80.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0022	J	0.0025	0.00034	mg/Kg	☼	09/08/14 04:18	09/08/14 15:01	1
Ethylbenzene	0.0027		0.0025	0.00032	mg/Kg	☼	09/08/14 04:18	09/08/14 15:01	1
Toluene	0.0097		0.0025	0.00037	mg/Kg	☼	09/08/14 04:18	09/08/14 15:01	1
Xylenes, Total	0.013		0.0075	0.0011	mg/Kg	☼	09/08/14 04:18	09/08/14 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		63 - 120	09/08/14 04:18	09/08/14 15:01	1
Dibromofluoromethane (Surr)	107		68 - 121	09/08/14 04:18	09/08/14 15:01	1
1,2-Dichloroethane-d4 (Surr)	111		52 - 124	09/08/14 04:18	09/08/14 15:01	1
Toluene-d8 (Surr)	107		72 - 127	09/08/14 04:18	09/08/14 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	48		12	1.2	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Acenaphthylene	96		12	1.4	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Anthracene	180		12	1.2	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Benzo[a]anthracene	100		12	1.5	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Benzo[a]pyrene	64		12	1.2	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Benzo[b]fluoranthene	56		12	1.9	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Benzo[g,h,i]perylene	29		12	1.2	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Benzo[k]fluoranthene	28		12	2.5	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Chrysene	82		12	1.5	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Dibenz(a,h)anthracene	11	J	12	1.4	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Fluoranthene	220		12	1.3	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Fluorene	180		12	1.6	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Indeno[1,2,3-cd]pyrene	29		12	1.3	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
2-Methylnaphthalene	5.8	J	12	1.1	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Naphthalene	18		12	1.1	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Phenanthrene	390		12	1.9	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150
Pyrene	170		12	1.2	mg/Kg	☼	09/11/14 08:25	09/12/14 17:20	150

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	D X	35 - 105	09/11/14 08:25	09/12/14 17:20	150
Nitrobenzene-d5 (Surr)	0	D X	25 - 104	09/11/14 08:25	09/12/14 17:20	150
Terphenyl-d14 (Surr)	0	D X	25 - 127	09/11/14 08:25	09/12/14 17:20	150

TestAmerica Pittsburgh

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: SB-52 (5-6)

Lab Sample ID: 180-36440-4

Date Collected: 09/03/14 15:00

Matrix: Solid

Date Received: 09/06/14 10:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		0.10	0.10	%			09/08/14 11:33	1
Percent Solids	81		0.10	0.10	%			09/08/14 11:33	1

Client Sample ID: IDW SOIL

Lab Sample ID: 180-36440-5

Date Collected: 09/05/14 09:45

Matrix: Solid

Date Received: 09/06/14 10:15

Percent Solids: 73.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.023	0.0033	mg/Kg	☼	09/10/14 11:36	09/14/14 06:58	1
PCB-1221	ND		0.023	0.0043	mg/Kg	☼	09/10/14 11:36	09/14/14 06:58	1
PCB-1232	ND		0.023	0.0039	mg/Kg	☼	09/10/14 11:36	09/14/14 06:58	1
PCB-1242	ND		0.023	0.0037	mg/Kg	☼	09/10/14 11:36	09/14/14 06:58	1
PCB-1248	ND		0.023	0.0021	mg/Kg	☼	09/10/14 11:36	09/14/14 06:58	1
PCB-1254	ND		0.023	0.0032	mg/Kg	☼	09/10/14 11:36	09/14/14 06:58	1
PCB-1260	ND		0.023	0.0032	mg/Kg	☼	09/10/14 11:36	09/14/14 06:58	1
PCB-1262	ND		0.023	0.0049	mg/Kg	☼	09/10/14 11:36	09/14/14 06:58	1
PCB-1268	ND		0.023	0.0029	mg/Kg	☼	09/10/14 11:36	09/14/14 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	77		45 - 125	09/10/14 11:36	09/14/14 06:58	1
Tetrachloro-m-xylene (Surr)	65		45 - 135	09/10/14 11:36	09/14/14 06:58	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.030	mg/L		09/14/14 10:18	09/15/14 08:29	1
Barium	0.30	J B	2.0	0.0019	mg/L		09/14/14 10:18	09/15/14 08:29	1
Cadmium	ND		0.50	0.0017	mg/L		09/14/14 10:18	09/15/14 08:29	1
Chromium	ND		0.50	0.010	mg/L		09/14/14 10:18	09/15/14 08:29	1
Lead	ND		0.50	0.015	mg/L		09/14/14 10:18	09/15/14 08:29	1
Selenium	ND		0.50	0.017	mg/L		09/14/14 10:18	09/15/14 08:29	1
Silver	ND		0.50	0.0027	mg/L		09/14/14 10:18	09/15/14 08:29	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000038	mg/L		09/15/14 07:29	09/15/14 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		0.10	0.10	%			09/08/14 11:33	1
Percent Solids	73		0.10	0.10	%			09/08/14 11:33	1
Ignitability	NO		1.0	1.0	No Unit			09/12/14 12:09	1
Cyanide, Total	40		6.7	2.0	mg/Kg	☼	09/09/14 07:00	09/09/14 10:31	10

Client Sample ID: IDW SOIL

Lab Sample ID: 180-36440-6

Date Collected: 09/05/14 09:45

Matrix: Solid

Date Received: 09/06/14 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.040	mg/L			09/18/14 10:32	1

TestAmerica Pittsburgh

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: IDW SOIL

Lab Sample ID: 180-36440-6

Date Collected: 09/05/14 09:45

Matrix: Solid

Date Received: 09/06/14 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	*	0.20	0.043	mg/L			09/18/14 10:32	1
Carbon tetrachloride	ND		0.20	0.043	mg/L			09/18/14 10:32	1
Chlorobenzene	ND		0.20	0.021	mg/L			09/18/14 10:32	1
Chloroform	ND		0.20	0.040	mg/L			09/18/14 10:32	1
1,2-Dichloroethane	ND		0.20	0.038	mg/L			09/18/14 10:32	1
1,1-Dichloroethene	ND		0.20	0.043	mg/L			09/18/14 10:32	1
Tetrachloroethene	ND		0.20	0.033	mg/L			09/18/14 10:32	1
Trichloroethene	ND		0.20	0.032	mg/L			09/18/14 10:32	1
Vinyl chloride	ND		0.20	0.052	mg/L			09/18/14 10:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 120					09/18/14 10:32	1
Dibromofluoromethane (Surr)	102		80 - 120					09/18/14 10:32	1
1,2-Dichloroethane-d4 (Surr)	128	X	62 - 123					09/18/14 10:32	1
Toluene-d8 (Surr)	89		80 - 120					09/18/14 10:32	1

Client Sample ID: IDW WATER

Lab Sample ID: 180-36440-10

Date Collected: 09/05/14 11:15

Matrix: Water

Date Received: 09/06/14 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250	130	ug/L			09/15/14 21:15	50
Benzene	39	J	50	5.3	ug/L			09/15/14 21:15	50
Bromoform	ND		50	9.6	ug/L			09/15/14 21:15	50
Bromomethane	ND		50	16	ug/L			09/15/14 21:15	50
2-Butanone (MEK)	ND		250	27	ug/L			09/15/14 21:15	50
Carbon disulfide	ND		50	11	ug/L			09/15/14 21:15	50
Carbon tetrachloride	ND		50	6.8	ug/L			09/15/14 21:15	50
Chlorobenzene	ND		50	6.8	ug/L			09/15/14 21:15	50
Chlorobromomethane	ND		50	9.0	ug/L			09/15/14 21:15	50
Chlorodibromomethane	ND		50	6.8	ug/L			09/15/14 21:15	50
Chloroethane	ND		50	11	ug/L			09/15/14 21:15	50
Chloroform	ND		50	8.5	ug/L			09/15/14 21:15	50
Chloromethane	ND		50	14	ug/L			09/15/14 21:15	50
cis-1,2-Dichloroethene	ND		50	12	ug/L			09/15/14 21:15	50
cis-1,3-Dichloropropene	ND		50	9.3	ug/L			09/15/14 21:15	50
Cyclohexane	ND		50	13	ug/L			09/15/14 21:15	50
1,2-Dibromo-3-Chloropropane	ND		50	7.0	ug/L			09/15/14 21:15	50
1,2-Dibromoethane	ND		50	9.0	ug/L			09/15/14 21:15	50
1,2-Dichlorobenzene	ND		50	7.6	ug/L			09/15/14 21:15	50
1,3-Dichlorobenzene	ND		50	5.3	ug/L			09/15/14 21:15	50
1,4-Dichlorobenzene	ND		50	10	ug/L			09/15/14 21:15	50
Dichlorobromomethane	ND		50	6.5	ug/L			09/15/14 21:15	50
Dichlorodifluoromethane	ND		50	9.6	ug/L			09/15/14 21:15	50
1,1-Dichloroethane	ND		50	5.8	ug/L			09/15/14 21:15	50
1,2-Dichloroethane	ND		50	11	ug/L			09/15/14 21:15	50
1,1-Dichloroethene	ND		50	15	ug/L			09/15/14 21:15	50
1,2-Dichloropropane	ND		50	4.7	ug/L			09/15/14 21:15	50
1,4-Dioxane	ND		10000	1700	ug/L			09/15/14 21:15	50

TestAmerica Pittsburgh

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: IDW WATER

Lab Sample ID: 180-36440-10

Date Collected: 09/05/14 11:15

Matrix: Water

Date Received: 09/06/14 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	83		50	11	ug/L			09/15/14 21:15	50
2-Hexanone	ND		250	8.0	ug/L			09/15/14 21:15	50
Isopropylbenzene	20	J	50	8.2	ug/L			09/15/14 21:15	50
Methyl acetate	ND		50	6.9	ug/L			09/15/14 21:15	50
Methylcyclohexane	ND		50	13	ug/L			09/15/14 21:15	50
Methylene Chloride	16	J	50	6.3	ug/L			09/15/14 21:15	50
4-Methyl-2-pentanone (MIBK)	ND		250	26	ug/L			09/15/14 21:15	50
Methyl tert-butyl ether	ND		50	9.2	ug/L			09/15/14 21:15	50
m-Xylene & p-Xylene	430		100	20	ug/L			09/15/14 21:15	50
o-Xylene	200		50	5.5	ug/L			09/15/14 21:15	50
Styrene	94		50	4.8	ug/L			09/15/14 21:15	50
1,1,2,2-Tetrachloroethane	ND		50	10	ug/L			09/15/14 21:15	50
Tetrachloroethene	ND		50	7.4	ug/L			09/15/14 21:15	50
Toluene	260		50	7.5	ug/L			09/15/14 21:15	50
trans-1,2-Dichloroethene	ND		50	8.5	ug/L			09/15/14 21:15	50
trans-1,3-Dichloropropene	ND		50	7.4	ug/L			09/15/14 21:15	50
1,2,3-Trichlorobenzene	ND		50	7.7	ug/L			09/15/14 21:15	50
1,2,4-Trichlorobenzene	ND		50	14	ug/L			09/15/14 21:15	50
1,1,1-Trichloroethane	ND		50	14	ug/L			09/15/14 21:15	50
1,1,2-Trichloroethane	ND		50	10	ug/L			09/15/14 21:15	50
Trichloroethene	ND		50	7.2	ug/L			09/15/14 21:15	50
Trichlorofluoromethane	ND		50	9.9	ug/L			09/15/14 21:15	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			09/15/14 21:15	50
Vinyl chloride	ND		50	11	ug/L			09/15/14 21:15	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 118		09/15/14 21:15	50
Dibromofluoromethane (Surr)	103		70 - 128		09/15/14 21:15	50
1,2-Dichloroethane-d4 (Surr)	100		64 - 135		09/15/14 21:15	50
Toluene-d8 (Surr)	106		71 - 118		09/15/14 21:15	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.10	ug/L		09/10/14 12:20	09/14/14 02:41	1
PCB-1221	ND		0.42	0.10	ug/L		09/10/14 12:20	09/14/14 02:41	1
PCB-1232	ND		0.42	0.12	ug/L		09/10/14 12:20	09/14/14 02:41	1
PCB-1242	ND		0.42	0.077	ug/L		09/10/14 12:20	09/14/14 02:41	1
PCB-1248	ND		0.42	0.095	ug/L		09/10/14 12:20	09/14/14 02:41	1
PCB-1254	ND		0.42	0.095	ug/L		09/10/14 12:20	09/14/14 02:41	1
PCB-1260	ND		0.42	0.056	ug/L		09/10/14 12:20	09/14/14 02:41	1
PCB-1262	ND		0.42	0.086	ug/L		09/10/14 12:20	09/14/14 02:41	1
PCB-1268	ND		0.42	0.11	ug/L		09/10/14 12:20	09/14/14 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	86		35 - 140	09/10/14 12:20	09/14/14 02:41	1
Tetrachloro-m-xylene (Surr)	78		35 - 140	09/10/14 12:20	09/14/14 02:41	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	170000		2000	420	ug/L		09/09/14 06:22	09/12/14 15:31	1

TestAmerica Pittsburgh

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Client Sample ID: IDW WATER

Lab Sample ID: 180-36440-10

Date Collected: 09/05/14 11:15

Matrix: Water

Date Received: 09/06/14 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		100	25	ug/L		09/09/14 06:22	09/12/14 15:31	1
Arsenic	130		100	30	ug/L		09/09/14 06:22	09/12/14 15:31	1
Barium	1200 J		2000	1.9	ug/L		09/09/14 06:22	09/12/14 15:31	1
Beryllium	10 J		40	2.7	ug/L		09/09/14 06:22	09/12/14 15:31	1
Cadmium	5.0 J		50	1.7	ug/L		09/09/14 06:22	09/12/14 15:31	1
Calcium	1100000		50000	140	ug/L		09/09/14 06:22	09/12/14 15:31	1
Chromium	330		50	10	ug/L		09/09/14 06:22	09/12/14 15:31	1
Cobalt	87 J		500	3.9	ug/L		09/09/14 06:22	09/12/14 15:31	1
Copper	270		250	8.5	ug/L		09/09/14 06:22	09/12/14 15:31	1
Iron	250000		1000	53	ug/L		09/09/14 06:22	09/12/14 15:31	1
Lead	560		100	15	ug/L		09/09/14 06:22	09/12/14 15:31	1
Magnesium	100000		50000	110	ug/L		09/09/14 06:22	09/12/14 15:31	1
Manganese	5400		150	0.94	ug/L		09/09/14 06:22	09/12/14 15:31	1
Nickel	160 J		400	4.9	ug/L		09/09/14 06:22	09/12/14 15:31	1
Potassium	48000 J		50000	410	ug/L		09/09/14 06:22	09/12/14 15:31	1
Selenium	ND		100	17	ug/L		09/09/14 06:22	09/12/14 15:31	1
Silver	ND		50	2.7	ug/L		09/09/14 06:22	09/12/14 15:31	1
Sodium	670000		50000	210	ug/L		09/09/14 06:22	09/12/14 15:31	1
Thallium	ND		200	15	ug/L		09/09/14 06:22	09/12/14 15:31	1
Vanadium	400 J		500	11	ug/L		09/09/14 06:22	09/12/14 15:31	1
Zinc	810		200	60	ug/L		09/09/14 06:22	09/12/14 15:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.9		0.20	0.038	ug/L		09/09/14 09:57	09/09/14 13:15	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-36440-11

Date Collected: 09/05/14 00:00

Matrix: Water

Date Received: 09/06/14 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.11	ug/L			09/14/14 14:08	1
Ethylbenzene	ND		1.0	0.23	ug/L			09/14/14 14:08	1
Toluene	ND		1.0	0.15	ug/L			09/14/14 14:08	1
Xylenes, Total	ND		3.0	0.49	ug/L			09/14/14 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 118					09/14/14 14:08	1
Dibromofluoromethane (Surr)	103		70 - 128					09/14/14 14:08	1
1,2-Dichloroethane-d4 (Surr)	100		64 - 135					09/14/14 14:08	1
Toluene-d8 (Surr)	106		71 - 118					09/14/14 14:08	1

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: MB 180-117993/3

Matrix: Water

Analysis Batch: 117993

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.11	ug/L			09/14/14 12:58	1
Xylenes, Total	ND		3.0	0.49	ug/L			09/14/14 12:58	1
Ethylbenzene	ND		1.0	0.23	ug/L			09/14/14 12:58	1
Toluene	ND		1.0	0.15	ug/L			09/14/14 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 118		09/14/14 12:58	1
Dibromofluoromethane (Surr)	101		70 - 128		09/14/14 12:58	1
1,2-Dichloroethane-d4 (Surr)	103		64 - 135		09/14/14 12:58	1
Toluene-d8 (Surr)	109		71 - 118		09/14/14 12:58	1

Lab Sample ID: LCS 180-117993/6

Matrix: Water

Analysis Batch: 117993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.92		ug/L		99	80 - 120
Xylenes, Total	20.0	20.1		ug/L		101	76 - 128
Ethylbenzene	10.0	9.91		ug/L		99	72 - 126
Toluene	10.0	10.0		ug/L		100	80 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 118
Dibromofluoromethane (Surr)	101		70 - 128
1,2-Dichloroethane-d4 (Surr)	98		64 - 135
Toluene-d8 (Surr)	101		71 - 118

Lab Sample ID: MB 180-118072/5

Matrix: Water

Analysis Batch: 118072

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	2.5	ug/L			09/15/14 12:37	1
Benzene	ND		1.0	0.11	ug/L			09/15/14 12:37	1
Bromoform	ND		1.0	0.19	ug/L			09/15/14 12:37	1
Bromomethane	ND		1.0	0.31	ug/L			09/15/14 12:37	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			09/15/14 12:37	1
Carbon disulfide	ND		1.0	0.21	ug/L			09/15/14 12:37	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			09/15/14 12:37	1
Chlorobenzene	ND		1.0	0.14	ug/L			09/15/14 12:37	1
Chlorobromomethane	ND		1.0	0.18	ug/L			09/15/14 12:37	1
Chlorodibromomethane	ND		1.0	0.14	ug/L			09/15/14 12:37	1
Chloroethane	ND		1.0	0.21	ug/L			09/15/14 12:37	1
Chloroform	ND		1.0	0.17	ug/L			09/15/14 12:37	1
Chloromethane	ND		1.0	0.28	ug/L			09/15/14 12:37	1
cis-1,2-Dichloroethene	ND		1.0	0.24	ug/L			09/15/14 12:37	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			09/15/14 12:37	1

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: MB 180-118072/5

Matrix: Water

Analysis Batch: 118072

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyclohexane	ND		1.0	0.25	ug/L			09/15/14 12:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.14	ug/L			09/15/14 12:37	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			09/15/14 12:37	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			09/15/14 12:37	1
1,3-Dichlorobenzene	ND		1.0	0.11	ug/L			09/15/14 12:37	1
1,4-Dichlorobenzene	ND		1.0	0.21	ug/L			09/15/14 12:37	1
Dichlorobromomethane	ND		1.0	0.13	ug/L			09/15/14 12:37	1
Dichlorodifluoromethane	ND		1.0	0.19	ug/L			09/15/14 12:37	1
1,1-Dichloroethane	ND		1.0	0.12	ug/L			09/15/14 12:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/15/14 12:37	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			09/15/14 12:37	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			09/15/14 12:37	1
1,4-Dioxane	ND		200	34	ug/L			09/15/14 12:37	1
Ethylbenzene	ND		1.0	0.23	ug/L			09/15/14 12:37	1
2-Hexanone	ND		5.0	0.16	ug/L			09/15/14 12:37	1
Isopropylbenzene	ND		1.0	0.16	ug/L			09/15/14 12:37	1
Methyl acetate	ND		1.0	0.14	ug/L			09/15/14 12:37	1
Methylcyclohexane	ND		1.0	0.26	ug/L			09/15/14 12:37	1
Methylene Chloride	ND		1.0	0.13	ug/L			09/15/14 12:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			09/15/14 12:37	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			09/15/14 12:37	1
m-Xylene & p-Xylene	ND		2.0	0.41	ug/L			09/15/14 12:37	1
o-Xylene	ND		1.0	0.11	ug/L			09/15/14 12:37	1
Styrene	ND		1.0	0.097	ug/L			09/15/14 12:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			09/15/14 12:37	1
Tetrachloroethene	ND		1.0	0.15	ug/L			09/15/14 12:37	1
Toluene	ND		1.0	0.15	ug/L			09/15/14 12:37	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			09/15/14 12:37	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			09/15/14 12:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.15	ug/L			09/15/14 12:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			09/15/14 12:37	1
1,1,1-Trichloroethane	ND		1.0	0.29	ug/L			09/15/14 12:37	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			09/15/14 12:37	1
Trichloroethene	ND		1.0	0.14	ug/L			09/15/14 12:37	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			09/15/14 12:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.32	ug/L			09/15/14 12:37	1
Vinyl chloride	ND		1.0	0.23	ug/L			09/15/14 12:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		70 - 118		09/15/14 12:37	1
Dibromofluoromethane (Surr)	102		70 - 128		09/15/14 12:37	1
1,2-Dichloroethane-d4 (Surr)	101		64 - 135		09/15/14 12:37	1
Toluene-d8 (Surr)	107		71 - 118		09/15/14 12:37	1

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: LCS 180-118072/8

Matrix: Water

Analysis Batch: 118072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10.0	11.3		ug/L		113	22 - 150
Benzene	10.0	10.4		ug/L		104	80 - 120
Bromoform	10.0	8.74		ug/L		87	46 - 150
Bromomethane	10.0	9.70		ug/L		97	33 - 150
2-Butanone (MEK)	10.0	11.9		ug/L		119	39 - 138
Carbon disulfide	10.0	9.78		ug/L		98	54 - 132
Carbon tetrachloride	10.0	9.76		ug/L		98	55 - 150
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
Chlorobromomethane	10.0	10.2		ug/L		102	70 - 127
Chlorodibromomethane	10.0	10.1		ug/L		101	60 - 140
Chloroethane	10.0	8.92		ug/L		89	36 - 142
Chloroform	10.0	10.3		ug/L		103	72 - 127
Chloromethane	10.0	8.78		ug/L		88	50 - 139
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	70 - 120
cis-1,3-Dichloropropene	10.0	8.79		ug/L		88	66 - 120
Cyclohexane	10.0	9.89		ug/L		99	45 - 142
1,2-Dibromo-3-Chloropropane	10.0	9.58		ug/L		96	37 - 133
1,2-Dibromoethane	10.0	10.7		ug/L		107	74 - 123
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	77 - 120
1,3-Dichlorobenzene	10.0	10.7		ug/L		107	76 - 120
1,4-Dichlorobenzene	10.0	10.5		ug/L		105	77 - 120
Dichlorobromomethane	10.0	9.24		ug/L		92	66 - 130
Dichlorodifluoromethane	10.0	10.6		ug/L		106	13 - 150
1,1-Dichloroethane	10.0	10.2		ug/L		102	73 - 126
1,2-Dichloroethane	10.0	10.1		ug/L		101	68 - 132
1,1-Dichloroethene	10.0	10.1		ug/L		101	65 - 136
1,2-Dichloropropane	10.0	9.96		ug/L		100	76 - 124
1,4-Dioxane	200	262		ug/L		131	10 - 160
Ethylbenzene	10.0	11.0		ug/L		110	72 - 126
2-Hexanone	10.0	10.8		ug/L		108	25 - 132
Isopropylbenzene	10.0	11.3		ug/L		113	58 - 130
Methyl acetate	50.0	51.1		ug/L		102	47 - 142
Methylcyclohexane	10.0	9.75		ug/L		98	45 - 145
Methylene Chloride	10.0	9.56		ug/L		96	63 - 129
4-Methyl-2-pentanone (MIBK)	10.0	10.1		ug/L		101	45 - 145
Methyl tert-butyl ether	10.0	10.1		ug/L		101	64 - 123
m-Xylene & p-Xylene	10.0	11.0		ug/L		110	73 - 130
o-Xylene	10.0	11.0		ug/L		110	72 - 124
Styrene	10.0	10.8		ug/L		108	71 - 127
1,1,2,2-Tetrachloroethane	10.0	11.0		ug/L		110	62 - 125
Tetrachloroethene	10.0	11.1		ug/L		111	70 - 135
Toluene	10.0	10.9		ug/L		109	80 - 123
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	73 - 126
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	65 - 125
1,2,3-Trichlorobenzene	10.0	11.0		ug/L		110	59 - 127
1,2,4-Trichlorobenzene	10.0	10.6		ug/L		106	60 - 127
1,1,1-Trichloroethane	10.0	10.0		ug/L		100	63 - 133
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	77 - 127

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: LCS 180-118072/8

Matrix: Water

Analysis Batch: 118072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	10.0	9.88		ug/L		99	73 - 120
Trichlorofluoromethane	10.0	9.19		ug/L		92	44 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.74		ug/L		97	46 - 148
Vinyl chloride	10.0	9.35		ug/L		94	53 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 118
Dibromofluoromethane (Surr)	97		70 - 128
1,2-Dichloroethane-d4 (Surr)	101		64 - 135
Toluene-d8 (Surr)	105		71 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-117277/1-A

Matrix: Solid

Analysis Batch: 117275

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050	0.00068	mg/Kg		09/08/14 04:18	09/08/14 05:59	1
Ethylbenzene	ND		0.0050	0.00064	mg/Kg		09/08/14 04:18	09/08/14 05:59	1
Toluene	ND		0.0050	0.00073	mg/Kg		09/08/14 04:18	09/08/14 05:59	1
Xylenes, Total	ND		0.015	0.0022	mg/Kg		09/08/14 04:18	09/08/14 05:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		63 - 120	09/08/14 04:18	09/08/14 05:59	1
Dibromofluoromethane (Surr)	98		68 - 121	09/08/14 04:18	09/08/14 05:59	1
1,2-Dichloroethane-d4 (Surr)	113		52 - 124	09/08/14 04:18	09/08/14 05:59	1
Toluene-d8 (Surr)	92		72 - 127	09/08/14 04:18	09/08/14 05:59	1

Lab Sample ID: LCS 180-117277/2-A

Matrix: Solid

Analysis Batch: 117275

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0400	0.0367		mg/Kg		92	77 - 120
Ethylbenzene	0.0400	0.0380		mg/Kg		95	78 - 125
Toluene	0.0400	0.0378		mg/Kg		95	78 - 124
Xylenes, Total	0.0800	0.0747		mg/Kg		93	83 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		63 - 120
Dibromofluoromethane (Surr)	96		68 - 121
1,2-Dichloroethane-d4 (Surr)	109		52 - 124
Toluene-d8 (Surr)	84		72 - 127

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: MB 180-117477/1-A

Matrix: Solid

Analysis Batch: 117425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.25	0.049	mg/Kg		09/09/14 08:56	09/09/14 13:53	1
Ethylbenzene	ND		0.25	0.031	mg/Kg		09/09/14 08:56	09/09/14 13:53	1
Toluene	ND		0.25	0.042	mg/Kg		09/09/14 08:56	09/09/14 13:53	1
Xylenes, Total	ND		0.75	0.098	mg/Kg		09/09/14 08:56	09/09/14 13:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		63 - 120	09/09/14 08:56	09/09/14 13:53	1
Dibromofluoromethane (Surr)	90		68 - 121	09/09/14 08:56	09/09/14 13:53	1
1,2-Dichloroethane-d4 (Surr)	86		52 - 124	09/09/14 08:56	09/09/14 13:53	1
Toluene-d8 (Surr)	102		72 - 127	09/09/14 08:56	09/09/14 13:53	1

Lab Sample ID: LCS 180-117477/2-A

Matrix: Solid

Analysis Batch: 117425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2.00	1.98		mg/Kg		99	77 - 120
Ethylbenzene	2.00	2.09		mg/Kg		104	78 - 125
Toluene	2.00	2.04		mg/Kg		102	78 - 124
Xylenes, Total	4.00	4.19		mg/Kg		105	83 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		63 - 120
Dibromofluoromethane (Surr)	93		68 - 121
1,2-Dichloroethane-d4 (Surr)	82		52 - 124
Toluene-d8 (Surr)	101		72 - 127

Lab Sample ID: LCSD 180-117477/3-A

Matrix: Solid

Analysis Batch: 117425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117477

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	2.00	1.99		mg/Kg		99	77 - 120	0	20
Ethylbenzene	2.00	2.06		mg/Kg		103	78 - 125	1	21
Toluene	2.00	2.08		mg/Kg		104	78 - 124	2	21
Xylenes, Total	4.00	4.28		mg/Kg		107	83 - 126	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		63 - 120
Dibromofluoromethane (Surr)	102		68 - 121
1,2-Dichloroethane-d4 (Surr)	102		52 - 124
Toluene-d8 (Surr)	111		72 - 127

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: LCS 180-118439/11

Matrix: Solid

Analysis Batch: 118439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.400	0.343		mg/L		86	80 - 120
2-Butanone (MEK)	0.400	0.602	*	mg/L		150	31 - 139
Carbon tetrachloride	0.400	0.488		mg/L		122	63 - 139
Chlorobenzene	0.400	0.370		mg/L		92	83 - 120
Chloroform	0.400	0.369		mg/L		92	77 - 119
1,2-Dichloroethane	0.400	0.529		mg/L		132	63 - 140
1,1-Dichloroethene	0.400	0.448		mg/L		112	69 - 127
Tetrachloroethene	0.400	0.502		mg/L		126	78 - 126
Trichloroethene	0.400	0.457		mg/L		114	80 - 120
Vinyl chloride	0.400	0.447		mg/L		112	57 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		75 - 120
Dibromofluoromethane (Surr)	80		80 - 120
1,2-Dichloroethane-d4 (Surr)	109		62 - 123
Toluene-d8 (Surr)	90		80 - 120

Lab Sample ID: LB 180-118260/1-A

Matrix: Solid

Analysis Batch: 118439

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.050	0.0099	mg/L			09/18/14 06:21	1
2-Butanone (MEK)	ND		0.050	0.011	mg/L			09/18/14 06:21	1
Carbon tetrachloride	ND		0.050	0.011	mg/L			09/18/14 06:21	1
Chlorobenzene	ND		0.050	0.0053	mg/L			09/18/14 06:21	1
Chloroform	ND		0.050	0.010	mg/L			09/18/14 06:21	1
1,2-Dichloroethane	ND		0.050	0.0096	mg/L			09/18/14 06:21	1
1,1-Dichloroethene	ND		0.050	0.011	mg/L			09/18/14 06:21	1
Tetrachloroethene	ND		0.050	0.0082	mg/L			09/18/14 06:21	1
Trichloroethene	ND		0.050	0.0080	mg/L			09/18/14 06:21	1
Vinyl chloride	ND		0.050	0.013	mg/L			09/18/14 06:21	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		75 - 120		09/18/14 06:21	1
Dibromofluoromethane (Surr)	84		80 - 120		09/18/14 06:21	1
1,2-Dichloroethane-d4 (Surr)	111		62 - 123		09/18/14 06:21	1
Toluene-d8 (Surr)	88		80 - 120		09/18/14 06:21	1

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

Lab Sample ID: MB 180-117710/1-A

Matrix: Solid

Analysis Batch: 117819

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.067	0.0064	mg/Kg		09/11/14 08:25	09/12/14 07:02	1

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: MB 180-117710/1-A
Matrix: Solid
Analysis Batch: 117819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		0.067	0.0076	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Anthracene	ND		0.067	0.0065	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Benzo[a]anthracene	ND		0.067	0.0084	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Benzo[a]pyrene	ND		0.067	0.0067	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Benzo[b]fluoranthene	ND		0.067	0.010	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Benzo[g,h,i]perylene	ND		0.067	0.0066	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Benzo[k]fluoranthene	ND		0.067	0.013	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Chrysene	ND		0.067	0.0079	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Dibenz(a,h)anthracene	ND		0.067	0.0074	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Fluoranthene	ND		0.067	0.0071	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Fluorene	ND		0.067	0.0088	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Indeno[1,2,3-cd]pyrene	ND		0.067	0.0069	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
2-Methylnaphthalene	ND		0.067	0.0060	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Naphthalene	ND		0.067	0.0057	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Phenanthrene	ND		0.067	0.011	mg/Kg		09/11/14 08:25	09/12/14 07:02	1
Pyrene	ND		0.067	0.0067	mg/Kg		09/11/14 08:25	09/12/14 07:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		35 - 105	09/11/14 08:25	09/12/14 07:02	1
Nitrobenzene-d5 (Surr)	73		25 - 104	09/11/14 08:25	09/12/14 07:02	1
Terphenyl-d14 (Surr)	72		25 - 127	09/11/14 08:25	09/12/14 07:02	1

Lab Sample ID: LCS 180-117710/2-A
Matrix: Solid
Analysis Batch: 117819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117710

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6.67	5.25		mg/Kg		79	47 - 104
Acenaphthylene	6.67	5.24		mg/Kg		79	49 - 114
Anthracene	6.67	5.15		mg/Kg		77	45 - 112
Benzo[a]anthracene	6.67	5.25		mg/Kg		79	47 - 110
Benzo[a]pyrene	6.67	5.55		mg/Kg		83	47 - 112
Benzo[b]fluoranthene	6.67	5.34		mg/Kg		80	41 - 107
Benzo[g,h,i]perylene	6.67	5.61		mg/Kg		84	38 - 126
Benzo[k]fluoranthene	6.67	5.31		mg/Kg		80	44 - 115
Chrysene	6.67	5.39		mg/Kg		81	46 - 111
Dibenz(a,h)anthracene	6.67	5.61		mg/Kg		84	39 - 127
Fluoranthene	6.67	5.66		mg/Kg		85	40 - 120
Fluorene	6.67	5.60		mg/Kg		84	46 - 109
Indeno[1,2,3-cd]pyrene	6.67	5.45		mg/Kg		82	41 - 125
2-Methylnaphthalene	6.67	5.33		mg/Kg		80	45 - 100
Naphthalene	6.67	5.13		mg/Kg		77	43 - 100
Phenanthrene	6.67	5.02		mg/Kg		75	43 - 108
Pyrene	6.67	5.37		mg/Kg		81	41 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	76		35 - 105

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: LCS 180-117710/2-A

Matrix: Solid

Analysis Batch: 117819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117710

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Nitrobenzene-d5 (Surr)	79		25 - 104
Terphenyl-d14 (Surr)	87		25 - 127

Lab Sample ID: 180-36440-1 MS

Matrix: Solid

Analysis Batch: 117819

Client Sample ID: SB-56 (5-6)

Prep Type: Total/NA

Prep Batch: 117710

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS MS</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	
				<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>Limits</i>
Acenaphthene	18		8.69	27.3	F1	mg/Kg	*	111	47 - 104	
Acenaphthylene	9.6		8.69	18.1		mg/Kg	*	98	49 - 114	
Anthracene	32		8.69	43.1	F1	mg/Kg	*	125	45 - 112	
Benzo[a]anthracene	68		8.69	77.0	4	mg/Kg	*	100	47 - 110	
Benzo[a]pyrene	45		8.69	53.7	4	mg/Kg	*	99	47 - 112	
Benzo[b]fluoranthene	47		8.69	59.0	4	mg/Kg	*	141	41 - 107	
Benzo[g,h,i]perylene	20		8.69	29.5		mg/Kg	*	106	38 - 126	
Benzo[k]fluoranthene	21		8.69	23.5	F1	mg/Kg	*	31	44 - 115	
Chrysene	61		8.69	70.9	4	mg/Kg	*	115	46 - 111	
Dibenz(a,h)anthracene	8.5		8.69	17.3		mg/Kg	*	101	39 - 127	
Fluoranthene	83		8.69	98.1	4	mg/Kg	*	175	40 - 120	
Fluorene	22		8.69	31.9	F1	mg/Kg	*	115	46 - 109	
Indeno[1,2,3-cd]pyrene	19		8.69	28.0		mg/Kg	*	100	41 - 125	
2-Methylnaphthalene	13		8.69	21.8	F1	mg/Kg	*	103	45 - 100	
Naphthalene	26		8.69	37.3	F1	mg/Kg	*	134	43 - 100	
Phenanthrene	120		8.69	147	4	mg/Kg	*	258	43 - 108	
Pyrene	78		8.69	86.7	4	mg/Kg	*	100	41 - 115	

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
2-Fluorobiphenyl	0	D X	35 - 105
Nitrobenzene-d5 (Surr)	0	D X	25 - 104
Terphenyl-d14 (Surr)	0	D X	25 - 127

Lab Sample ID: 180-36440-1 MSD

Matrix: Solid

Analysis Batch: 117819

Client Sample ID: SB-56 (5-6)

Prep Type: Total/NA

Prep Batch: 117710

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD MSD</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>		<i>RPD</i>	
				<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>Limits</i>	<i>RPD</i>	<i>Limit</i>
Acenaphthene	18		8.69	29.6	F1	mg/Kg	*	137	47 - 104	8	40	
Acenaphthylene	9.6		8.69	19.4		mg/Kg	*	113	49 - 114	7	38	
Anthracene	32		8.69	46.2	F1	mg/Kg	*	161	45 - 112	7	42	
Benzo[a]anthracene	68		8.69	81.5	4	mg/Kg	*	152	47 - 110	6	40	
Benzo[a]pyrene	45		8.69	56.7	4	mg/Kg	*	134	47 - 112	5	42	
Benzo[b]fluoranthene	47		8.69	54.0	4	mg/Kg	*	83	41 - 107	9	53	
Benzo[g,h,i]perylene	20		8.69	31.1		mg/Kg	*	124	38 - 126	5	43	
Benzo[k]fluoranthene	21		8.69	25.3		mg/Kg	*	51	44 - 115	7	44	
Chrysene	61		8.69	74.2	4	mg/Kg	*	153	46 - 111	5	39	
Dibenz(a,h)anthracene	8.5		8.69	18.1		mg/Kg	*	110	39 - 127	4	45	
Fluoranthene	83		8.69	106	4	mg/Kg	*	267	40 - 120	8	36	
Fluorene	22		8.69	34.0	F1	mg/Kg	*	140	46 - 109	7	40	

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: 180-36440-1 MSD

Matrix: Solid

Analysis Batch: 117819

Client Sample ID: SB-56 (5-6)

Prep Type: Total/NA

Prep Batch: 117710

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Indeno[1,2,3-cd]pyrene	19		8.69	30.2		mg/Kg	*	125	41 - 125	8	47
2-Methylnaphthalene	13		8.69	23.4	F1	mg/Kg	*	121	45 - 100	7	40
Naphthalene	26		8.69	40.7	F1	mg/Kg	*	173	43 - 100	9	32
Phenanthrene	120		8.69	161	4	mg/Kg	*	423	43 - 108	9	39
Pyrene	78		8.69	91.4	4	mg/Kg	*	155	41 - 115	5	43

Surrogate	MSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	0	D X	35 - 105
Nitrobenzene-d5 (Surr)	0	D X	25 - 104
Terphenyl-d14 (Surr)	0	D X	25 - 127

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-117602/1-A

Matrix: Solid

Analysis Batch: 117960

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117602

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.017	0.0025	mg/Kg		09/10/14 11:36	09/14/14 08:02	1
PCB-1221	ND		0.017	0.0032	mg/Kg		09/10/14 11:36	09/14/14 08:02	1
PCB-1232	ND		0.017	0.0029	mg/Kg		09/10/14 11:36	09/14/14 08:02	1
PCB-1242	ND		0.017	0.0027	mg/Kg		09/10/14 11:36	09/14/14 08:02	1
PCB-1248	ND		0.017	0.0016	mg/Kg		09/10/14 11:36	09/14/14 08:02	1
PCB-1254	ND		0.017	0.0024	mg/Kg		09/10/14 11:36	09/14/14 08:02	1
PCB-1260	ND		0.017	0.0024	mg/Kg		09/10/14 11:36	09/14/14 08:02	1
PCB-1262	ND		0.017	0.0037	mg/Kg		09/10/14 11:36	09/14/14 08:02	1
PCB-1268	ND		0.017	0.0021	mg/Kg		09/10/14 11:36	09/14/14 08:02	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	98		45 - 125	09/10/14 11:36	09/14/14 08:02	1
Tetrachloro-m-xylene (Surr)	99		45 - 135	09/10/14 11:36	09/14/14 08:02	1

Lab Sample ID: LCS 180-117602/2-A

Matrix: Solid

Analysis Batch: 117960

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117602

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
PCB-1016	1.33	1.16		mg/Kg		87	55 - 135
PCB-1260	1.33	1.24		mg/Kg		93	50 - 140

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	97		45 - 125
Tetrachloro-m-xylene (Surr)	98		45 - 135

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-117638/1-A
Matrix: Water
Analysis Batch: 117960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.10	ug/L		09/10/14 12:20	09/14/14 03:45	1
PCB-1221	ND		0.40	0.10	ug/L		09/10/14 12:20	09/14/14 03:45	1
PCB-1232	ND		0.40	0.12	ug/L		09/10/14 12:20	09/14/14 03:45	1
PCB-1242	ND		0.40	0.074	ug/L		09/10/14 12:20	09/14/14 03:45	1
PCB-1248	ND		0.40	0.091	ug/L		09/10/14 12:20	09/14/14 03:45	1
PCB-1254	ND		0.40	0.092	ug/L		09/10/14 12:20	09/14/14 03:45	1
PCB-1260	ND		0.40	0.054	ug/L		09/10/14 12:20	09/14/14 03:45	1
PCB-1262	ND		0.40	0.082	ug/L		09/10/14 12:20	09/14/14 03:45	1
PCB-1268	ND		0.40	0.11	ug/L		09/10/14 12:20	09/14/14 03:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	92		35 - 140	09/10/14 12:20	09/14/14 03:45	1
Tetrachloro-m-xylene (Surr)	95		35 - 140	09/10/14 12:20	09/14/14 03:45	1

Lab Sample ID: LCS 180-117638/2-A
Matrix: Water
Analysis Batch: 117960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	40.0	33.0		ug/L		83	60 - 130
PCB-1260	40.0	35.6		ug/L		89	60 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	92		35 - 140
Tetrachloro-m-xylene (Surr)	93		35 - 140

Lab Sample ID: LCSD 180-117638/3-A
Matrix: Water
Analysis Batch: 117960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117638

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	40.0	34.1		ug/L		85	60 - 130	3	27
PCB-1260	40.0	36.0		ug/L		90	60 - 130	1	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	91		35 - 140
Tetrachloro-m-xylene (Surr)	96		35 - 140

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-117988/1-A
Matrix: Solid
Analysis Batch: 118084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.0030	mg/L		09/14/14 10:18	09/15/14 07:28	1
Barium	ND		0.20	0.00019	mg/L		09/14/14 10:18	09/15/14 07:28	1

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: MB 180-117988/1-A
Matrix: Solid
Analysis Batch: 118084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.050	0.00017	mg/L		09/14/14 10:18	09/15/14 07:28	1
Chromium	ND		0.050	0.0010	mg/L		09/14/14 10:18	09/15/14 07:28	1
Lead	ND		0.050	0.0015	mg/L		09/14/14 10:18	09/15/14 07:28	1
Selenium	ND		0.050	0.0017	mg/L		09/14/14 10:18	09/15/14 07:28	1
Silver	ND		0.050	0.00027	mg/L		09/14/14 10:18	09/15/14 07:28	1

Lab Sample ID: LCS 180-117988/2-A
Matrix: Solid
Analysis Batch: 118084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.500	0.504		mg/L		101	80 - 120
Barium	2.00	1.97		mg/L		98	80 - 120
Cadmium	0.0500	0.0506		mg/L		101	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Lead	0.500	0.474		mg/L		95	80 - 120
Selenium	0.500	0.493		mg/L		99	80 - 120
Silver	0.0500	0.0480	J	mg/L		96	80 - 120

Lab Sample ID: MB 180-117396/1-A
Matrix: Water
Analysis Batch: 118028

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 117396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		200	42	ug/L		09/09/14 06:22	09/12/14 14:24	1
Antimony	ND		10	2.5	ug/L		09/09/14 06:22	09/12/14 14:24	1
Arsenic	ND		10	3.0	ug/L		09/09/14 06:22	09/12/14 14:24	1
Barium	ND		200	0.19	ug/L		09/09/14 06:22	09/12/14 14:24	1
Beryllium	ND		4.0	0.27	ug/L		09/09/14 06:22	09/12/14 14:24	1
Cadmium	ND		5.0	0.17	ug/L		09/09/14 06:22	09/12/14 14:24	1
Calcium	ND		5000	14	ug/L		09/09/14 06:22	09/12/14 14:24	1
Chromium	ND		5.0	1.0	ug/L		09/09/14 06:22	09/12/14 14:24	1
Cobalt	ND		50	0.39	ug/L		09/09/14 06:22	09/12/14 14:24	1
Copper	ND		25	0.85	ug/L		09/09/14 06:22	09/12/14 14:24	1
Iron	ND		100	5.3	ug/L		09/09/14 06:22	09/12/14 14:24	1
Lead	ND		10	1.5	ug/L		09/09/14 06:22	09/12/14 14:24	1
Magnesium	ND		5000	11	ug/L		09/09/14 06:22	09/12/14 14:24	1
Manganese	ND		15	0.094	ug/L		09/09/14 06:22	09/12/14 14:24	1
Nickel	ND		40	0.49	ug/L		09/09/14 06:22	09/12/14 14:24	1
Potassium	ND		5000	41	ug/L		09/09/14 06:22	09/12/14 14:24	1
Selenium	ND		10	1.7	ug/L		09/09/14 06:22	09/12/14 14:24	1
Silver	ND		5.0	0.27	ug/L		09/09/14 06:22	09/12/14 14:24	1
Sodium	ND		5000	21	ug/L		09/09/14 06:22	09/12/14 14:24	1
Thallium	ND		20	1.5	ug/L		09/09/14 06:22	09/12/14 14:24	1
Vanadium	ND		50	1.1	ug/L		09/09/14 06:22	09/12/14 14:24	1
Zinc	ND		20	6.0	ug/L		09/09/14 06:22	09/12/14 14:24	1

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

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

Lab Sample ID: LCS 180-117396/2-A

Matrix: Water

Analysis Batch: 118028

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 117396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	1960		ug/L		98	80 - 120
Antimony	500	506		ug/L		101	80 - 120
Arsenic	500	519		ug/L		104	80 - 120
Barium	2000	1980		ug/L		99	80 - 120
Beryllium	50.0	49.9		ug/L		100	80 - 120
Cadmium	50.0	51.1		ug/L		102	80 - 120
Calcium	50000	49300		ug/L		99	80 - 120
Chromium	200	202		ug/L		101	80 - 120
Cobalt	500	501		ug/L		100	80 - 120
Copper	250	244		ug/L		98	80 - 120
Iron	1000	1010		ug/L		101	80 - 120
Lead	500	498		ug/L		100	80 - 120
Magnesium	50000	48900		ug/L		98	80 - 120
Manganese	500	478		ug/L		96	80 - 120
Nickel	500	495		ug/L		99	80 - 120
Potassium	50000	48700		ug/L		97	80 - 120
Selenium	500	518		ug/L		104	80 - 120
Silver	50.0	50.3		ug/L		101	80 - 120
Sodium	50000	51300		ug/L		103	80 - 120
Thallium	500	492		ug/L		98	80 - 120
Vanadium	500	524		ug/L		105	80 - 120
Zinc	500	494		ug/L		99	80 - 120

Lab Sample ID: LB 180-117765/15-E

Matrix: Solid

Analysis Batch: 118084

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 117988

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.030	mg/L		09/14/14 10:18	09/15/14 07:33	1
Barium	0.00480	J	2.0	0.0019	mg/L		09/14/14 10:18	09/15/14 07:33	1
Cadmium	0.00240	J	0.50	0.0017	mg/L		09/14/14 10:18	09/15/14 07:33	1
Chromium	ND		0.50	0.010	mg/L		09/14/14 10:18	09/15/14 07:33	1
Lead	ND		0.50	0.015	mg/L		09/14/14 10:18	09/15/14 07:33	1
Selenium	ND		0.50	0.017	mg/L		09/14/14 10:18	09/15/14 07:33	1
Silver	ND		0.50	0.0027	mg/L		09/14/14 10:18	09/15/14 07:33	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-117447/1-A

Matrix: Water

Analysis Batch: 117489

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.038	ug/L		09/09/14 09:57	09/09/14 12:45	1

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-117447/2-A
Matrix: Water
Analysis Batch: 117489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.57		ug/L		103	80 - 120

Lab Sample ID: LCSD 180-117447/3-A
Matrix: Water
Analysis Batch: 117489

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117447

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	2.50	2.56		ug/L		102	80 - 120	0	20

Lab Sample ID: MB 180-118040/1-A
Matrix: Solid
Analysis Batch: 118114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 118040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000038	mg/L		09/15/14 07:29	09/15/14 13:50	1

Lab Sample ID: LCS 180-118040/2-A
Matrix: Solid
Analysis Batch: 118114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 118040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00258		mg/L		103	80 - 120

Lab Sample ID: LB 180-117765/15-F
Matrix: Solid
Analysis Batch: 118114

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 118040

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000038	mg/L		09/15/14 07:29	09/15/14 13:54	1

Method: 2540G - SM 2540G

Lab Sample ID: 180-36440-3 DU
Matrix: Solid
Analysis Batch: 117347

Client Sample ID: SB-53 (5-6)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	25		23		%		9	20
Percent Solids	75		77		%		3	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-117378/4-A
Matrix: Solid
Analysis Batch: 117466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		09/09/14 07:00	09/09/14 10:06	1

TestAmerica Pittsburgh

QC Sample Results

Client: GEI Consultants, Inc.
 Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: HLCS 180-117378/2-A
Matrix: Solid
Analysis Batch: 117466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117378

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.242		mg/Kg		97	90 - 110

Lab Sample ID: LCS 180-117378/3-A
Matrix: Solid
Analysis Batch: 117466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	101	89.3		mg/Kg		88	38 - 162

Lab Sample ID: LLCS 180-117378/1-A
Matrix: Solid
Analysis Batch: 117466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117378

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0515		mg/Kg		103	90 - 110

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

GC/MS VOA

Analysis Batch: 117275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-1	SB-56 (5-6)	Total/NA	Solid	8260C	117277
180-36440-3	SB-53 (5-6)	Total/NA	Solid	8260C	117277
180-36440-4	SB-52 (5-6)	Total/NA	Solid	8260C	117277
LCS 180-117277/2-A	Lab Control Sample	Total/NA	Solid	8260C	117277
MB 180-117277/1-A	Method Blank	Total/NA	Solid	8260C	117277

Prep Batch: 117277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-1	SB-56 (5-6)	Total/NA	Solid	5035	
180-36440-3	SB-53 (5-6)	Total/NA	Solid	5035	
180-36440-4	SB-52 (5-6)	Total/NA	Solid	5035	
LCS 180-117277/2-A	Lab Control Sample	Total/NA	Solid	5035	
MB 180-117277/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 117425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-2	SB-55 (5-6)	Total/NA	Solid	8260C	117477
LCS 180-117477/2-A	Lab Control Sample	Total/NA	Solid	8260C	117477
LCSD 180-117477/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	117477
MB 180-117477/1-A	Method Blank	Total/NA	Solid	8260C	117477

Prep Batch: 117477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-2	SB-55 (5-6)	Total/NA	Solid	5030C	
LCS 180-117477/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 180-117477/3-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
MB 180-117477/1-A	Method Blank	Total/NA	Solid	5030C	

Analysis Batch: 117993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-11	TRIP BLANK	Total/NA	Water	8260C	
LCS 180-117993/6	Lab Control Sample	Total/NA	Water	8260C	
MB 180-117993/3	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 118072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-10	IDW WATER	Total/NA	Water	8260C	
LCS 180-118072/8	Lab Control Sample	Total/NA	Water	8260C	
MB 180-118072/5	Method Blank	Total/NA	Water	8260C	

Leach Batch: 118260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-6	IDW SOIL	TCLP	Solid	1311	
LB 180-118260/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 118439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-6	IDW SOIL	TCLP	Solid	8260C	118260
LB 180-118260/1-A	Method Blank	TCLP	Solid	8260C	118260
LCS 180-118439/11	Lab Control Sample	Total/NA	Solid	8260C	

TestAmerica Pittsburgh

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

GC/MS Semi VOA

Prep Batch: 117710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-1	SB-56 (5-6)	Total/NA	Solid	3541	
180-36440-1 MS	SB-56 (5-6)	Total/NA	Solid	3541	
180-36440-1 MSD	SB-56 (5-6)	Total/NA	Solid	3541	
180-36440-2 - DL	SB-55 (5-6)	Total/NA	Solid	3541	
180-36440-2	SB-55 (5-6)	Total/NA	Solid	3541	
180-36440-3	SB-53 (5-6)	Total/NA	Solid	3541	
180-36440-4	SB-52 (5-6)	Total/NA	Solid	3541	
LCS 180-117710/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 180-117710/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 117819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-1	SB-56 (5-6)	Total/NA	Solid	8270D	117710
180-36440-1 MS	SB-56 (5-6)	Total/NA	Solid	8270D	117710
180-36440-1 MSD	SB-56 (5-6)	Total/NA	Solid	8270D	117710
180-36440-2	SB-55 (5-6)	Total/NA	Solid	8270D	117710
180-36440-3	SB-53 (5-6)	Total/NA	Solid	8270D	117710
LCS 180-117710/2-A	Lab Control Sample	Total/NA	Solid	8270D	117710
MB 180-117710/1-A	Method Blank	Total/NA	Solid	8270D	117710

Analysis Batch: 117855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-2 - DL	SB-55 (5-6)	Total/NA	Solid	8270D	117710
180-36440-4	SB-52 (5-6)	Total/NA	Solid	8270D	117710

GC Semi VOA

Prep Batch: 117602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	Total/NA	Solid	3541	
LCS 180-117602/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 180-117602/1-A	Method Blank	Total/NA	Solid	3541	

Prep Batch: 117638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-10	IDW WATER	Total/NA	Water	3510C	
LCS 180-117638/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-117638/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 180-117638/1-A	Method Blank	Total/NA	Water	3510C	

Cleanup Batch: 117662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-10	IDW WATER	Total/NA	Water	3665A	117638

Cleanup Batch: 117664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-10	IDW WATER	Total/NA	Water	3660B	117662

TestAmerica Pittsburgh

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

GC Semi VOA (Continued)

Cleanup Batch: 117665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	Total/NA	Solid	3665A	117602

Cleanup Batch: 117666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	Total/NA	Solid	3660B	117665

Analysis Batch: 117960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	Total/NA	Solid	8082A	117666
180-36440-10	IDW WATER	Total/NA	Water	8082A	117664
LCS 180-117602/2-A	Lab Control Sample	Total/NA	Solid	8082A	117602
LCS 180-117638/2-A	Lab Control Sample	Total/NA	Water	8082A	117638
LCSD 180-117638/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	117638
MB 180-117602/1-A	Method Blank	Total/NA	Solid	8082A	117602
MB 180-117638/1-A	Method Blank	Total/NA	Water	8082A	117638

Metals

Prep Batch: 117396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-10	IDW WATER	Total Recoverable	Water	3005A	
LCS 180-117396/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 180-117396/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 117447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-10	IDW WATER	Total/NA	Water	7470A	
LCS 180-117447/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 180-117447/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 180-117447/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 117489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-10	IDW WATER	Total/NA	Water	7470A	117447
LCS 180-117447/2-A	Lab Control Sample	Total/NA	Water	7470A	117447
LCSD 180-117447/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	117447
MB 180-117447/1-A	Method Blank	Total/NA	Water	7470A	117447

Leach Batch: 117765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	TCLP	Solid	1311	
LB 180-117765/15-E	Method Blank	TCLP	Solid	1311	
LB 180-117765/15-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 117988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	TCLP	Solid	3010A	117765
LB 180-117765/15-E	Method Blank	TCLP	Solid	3010A	117765
LCS 180-117988/2-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 180-117988/1-A	Method Blank	Total/NA	Solid	3010A	

TestAmerica Pittsburgh

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

Metals (Continued)

Analysis Batch: 118028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-10	IDW WATER	Total Recoverable	Water	6010C	117396
LCS 180-117396/2-A	Lab Control Sample	Total Recoverable	Water	6010C	117396
MB 180-117396/1-A	Method Blank	Total Recoverable	Water	6010C	117396

Prep Batch: 118040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	TCLP	Solid	7470A	117765
LB 180-117765/15-F	Method Blank	TCLP	Solid	7470A	117765
LCS 180-118040/2-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 180-118040/1-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 118084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	TCLP	Solid	6010C	117988
LB 180-117765/15-E	Method Blank	TCLP	Solid	6010C	117988
LCS 180-117988/2-A	Lab Control Sample	Total/NA	Solid	6010C	117988
MB 180-117988/1-A	Method Blank	Total/NA	Solid	6010C	117988

Analysis Batch: 118114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	TCLP	Solid	7470A	118040
LB 180-117765/15-F	Method Blank	TCLP	Solid	7470A	118040
LCS 180-118040/2-A	Lab Control Sample	Total/NA	Solid	7470A	118040
MB 180-118040/1-A	Method Blank	Total/NA	Solid	7470A	118040

General Chemistry

Analysis Batch: 117334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-1	SB-56 (5-6)	Total/NA	Solid	2540G	
180-36440-2	SB-55 (5-6)	Total/NA	Solid	2540G	

Analysis Batch: 117347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-3	SB-53 (5-6)	Total/NA	Solid	2540G	
180-36440-3 DU	SB-53 (5-6)	Total/NA	Solid	2540G	
180-36440-4	SB-52 (5-6)	Total/NA	Solid	2540G	
180-36440-5	IDW SOIL	Total/NA	Solid	2540G	

Prep Batch: 117378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	Total/NA	Solid	9010C	
HLCS 180-117378/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-117378/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-117378/1-A	Lab Control Sample	Total/NA	Solid	9010C	
MB 180-117378/4-A	Method Blank	Total/NA	Solid	9010C	

Analysis Batch: 117466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	Total/NA	Solid	9014	117378

TestAmerica Pittsburgh

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-1

General Chemistry (Continued)

Analysis Batch: 117466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 180-117378/2-A	Lab Control Sample	Total/NA	Solid	9014	117378
LCS 180-117378/3-A	Lab Control Sample	Total/NA	Solid	9014	117378
LLCS 180-117378/1-A	Lab Control Sample	Total/NA	Solid	9014	117378
MB 180-117378/4-A	Method Blank	Total/NA	Solid	9014	117378

Analysis Batch: 117905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-36440-5	IDW SOIL	Total/NA	Solid	7.1.2	



Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 180-36440-1

Login Number: 36440

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Butcher, Ryan M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Appendix D

Grain Size Analysis Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-36440-2

Client Project/Site: 115130, Gloversville

For:

GEI Consultants, Inc.

1301 Trumansburg Road

Suite N

Ithaca, New York 14850

Attn: Mr. John Finn



Authorized for release by:

9/24/2014 8:44:26 AM

David Dunlap, Senior Project Manager

(412)963-2432

dave.dunlap@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

1

2

3

4

5

6

7

8

9

10



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Subcontract Data	8
Chain of Custody	15
Receipt Checklists	16

Case Narrative

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-2

Job ID: 180-36440-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-36440-2

Receipt

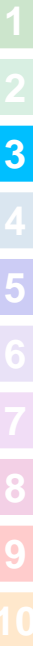
The samples were received on 9/6/2014 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9° C.

The results of the chemical analyses were reported under separate cover.

The proctor analysis could not be completed due to insufficient sample. The client was contacted. Additional sample will not be collected.

Geotechnical

The sieve analysis was completed at Geotechnics, East Pittsburgh, PA. Their report is attached.



Definitions/Glossary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-2

Glossary

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

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-2

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-15
Connecticut	State Program	1	PH-0688	09-30-14 *
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-15
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Pittsburgh

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-36440-7	STRATA FILL	Solid	09/05/14 10:30	09/06/14 10:15
180-36440-8	STRATA (XP-SM)	Solid	09/05/14 10:30	09/06/14 10:15
180-36440-9	STRATA FILL (ML)	Solid	09/05/14 10:30	09/06/14 10:15

1

2

3

4

5

6

7

8

9

10

Method Summary

Client: GEI Consultants, Inc.
Project/Site: 115130, Gloversville

TestAmerica Job ID: 180-36440-2

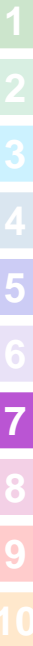
Method	Method Description	Protocol	Laboratory
Sieve Analysis	General Sub Contract Method	NONE	Geotechnic

Protocol References:

NONE = NONE

Laboratory References:

Geotechnic = Geotechnics Inc., 544 Braddock Ave, East Pittsburgh, PA 15112





September 23, 2014

Project No. 2014-531-001

David Dunlap
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238

Transmittal
Laboratory Test Results
115130, Gloversville

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was transmitted to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens which were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectively submitted,
Geotechnics, Inc.

David R. Backstrom

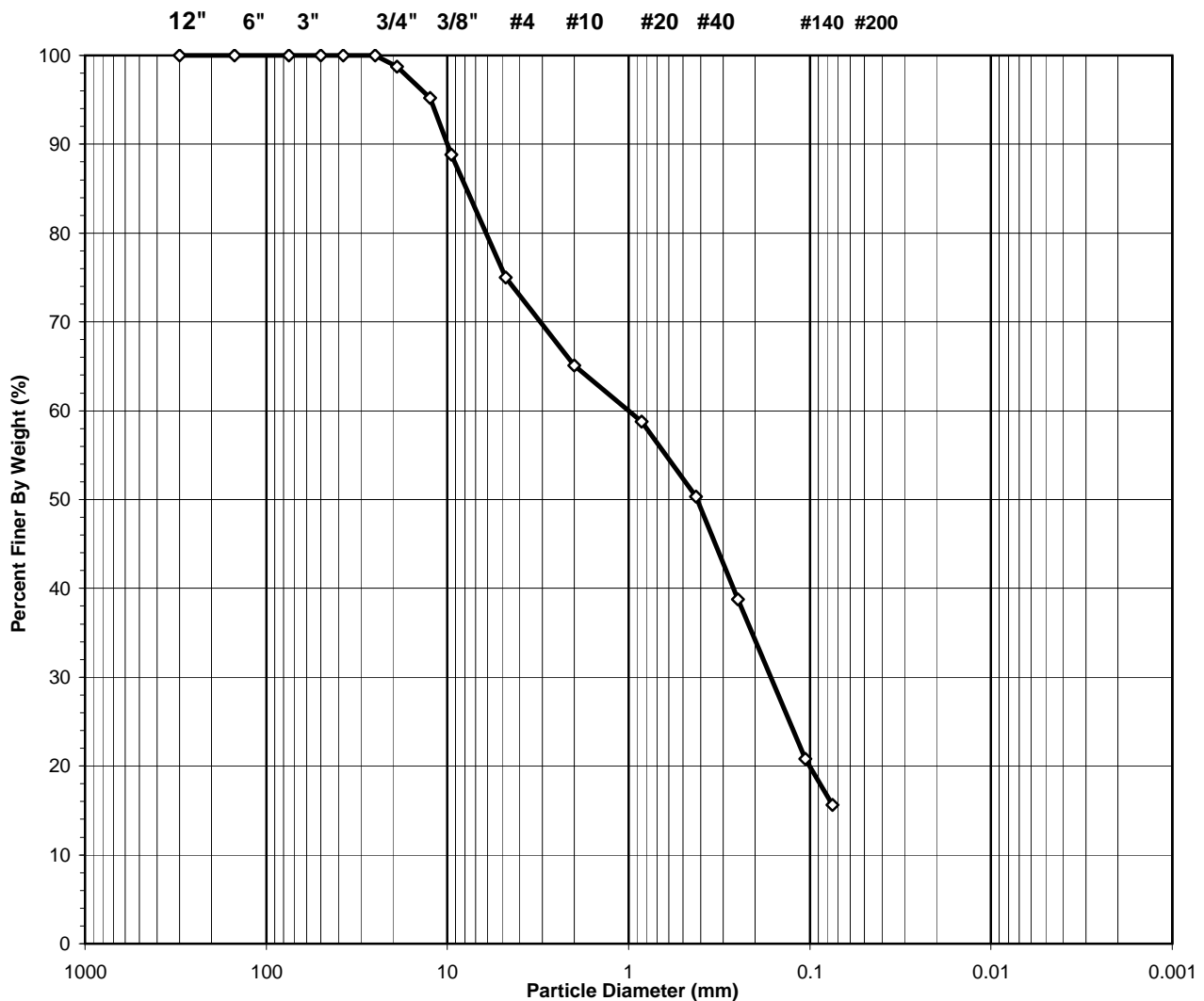
David R. Backstrom
Laboratory Director

***We understand that you have a choice in your laboratory services
and we thank you for choosing Geotechnics.***

SIEVE ANALYSIS
ASTM D 422-63 (2007)

Client:	TestAmerica Pittsburgh	Boring No.:	Strata Fill
Client Reference:	115130, GLOVERSVILLE	Depth (ft):	NA
Project No.:	2014-531-001	Sample No.:	180-36440-7
Lab ID:	2014-531-001-001	Soil Color:	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol: *sm, ASSUMED*

USCS Classification: *SILTY SAND WITH GRAVEL*

Tested By PC Date 9/18/14 Checked By KC Date 9/19/14

page 1 of 2 DCN: CT-S3C DATE 3/20/13 REVISION: 3

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client:	TestAmerica Pittsburgh	Boring No.:	Strata Fill
Client Reference:	115130, GLOVERSVILLE	Depth (ft):	NA
Project No.:	2014-531-001	Sample No.:	180-36440-7
Lab ID:	2014-531-001-001	Soil Color:	BROWN

Moisture Content of Passing 3/4" Sample		Water Content of Retained 3/4" Sample	
Tare No.	973	Tare No.	NA
Wt. of Tare & Wet Sample (g)	622.10	Weight of Tare & Wet Sample (g)	NA
Wt. of Tare & Dry Sample (g)	562.00	Weight of Tare & Dry Sample (g)	NA
Weight of Tare (g)	101.85	Weight of Tare (g)	NA
Weight of Water (g)	60.10	Weight of Water (g)	NA
Weight of Dry Sample (g)	460.15	Weight of Dry Sample (g)	NA
Moisture Content (%)	13.1	Moisture Content (%)	NA

Wet Weight of -3/4" Sample (g)	NA	Weight of the Dry Sample (g)	460.15
Dry Weight of - 3/4" Sample (g)	382.7	Weight of - #200 Sample (g)	71.78
Wet Weight of +3/4" Sample (g)	NA	Weight of + #200 Sample (g)	388.37
Dry Weight of + 3/4" Sample (g)	5.71		
Total Dry Weight of Sample (g)	NA		

Sieve Size	Sieve Opening (mm)	Weight of Soil Retained (g)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	5.71	1.24	1.24	98.76	98.76
1/2"	12.50	16.32	3.55	4.79	95.21	95.21
3/8"	9.50	29.44	6.40	11.19	88.81	88.81
#4	4.75	63.65	13.83	25.02	74.98	74.98
#10	2.00	45.58	9.91	34.92	65.08	65.08
#20	0.850	28.87	6.27	41.20	58.80	58.80
#40	0.425	39.03	8.48	49.68	50.32	50.32
#60	0.250	53.16	11.55	61.23	38.77	38.77
#140	0.106	82.50	17.93	79.16	20.84	20.84
#200	0.075	24.11	5.24	84.40	15.60	15.60
Pan	-	71.78	15.60	100.00	-	-

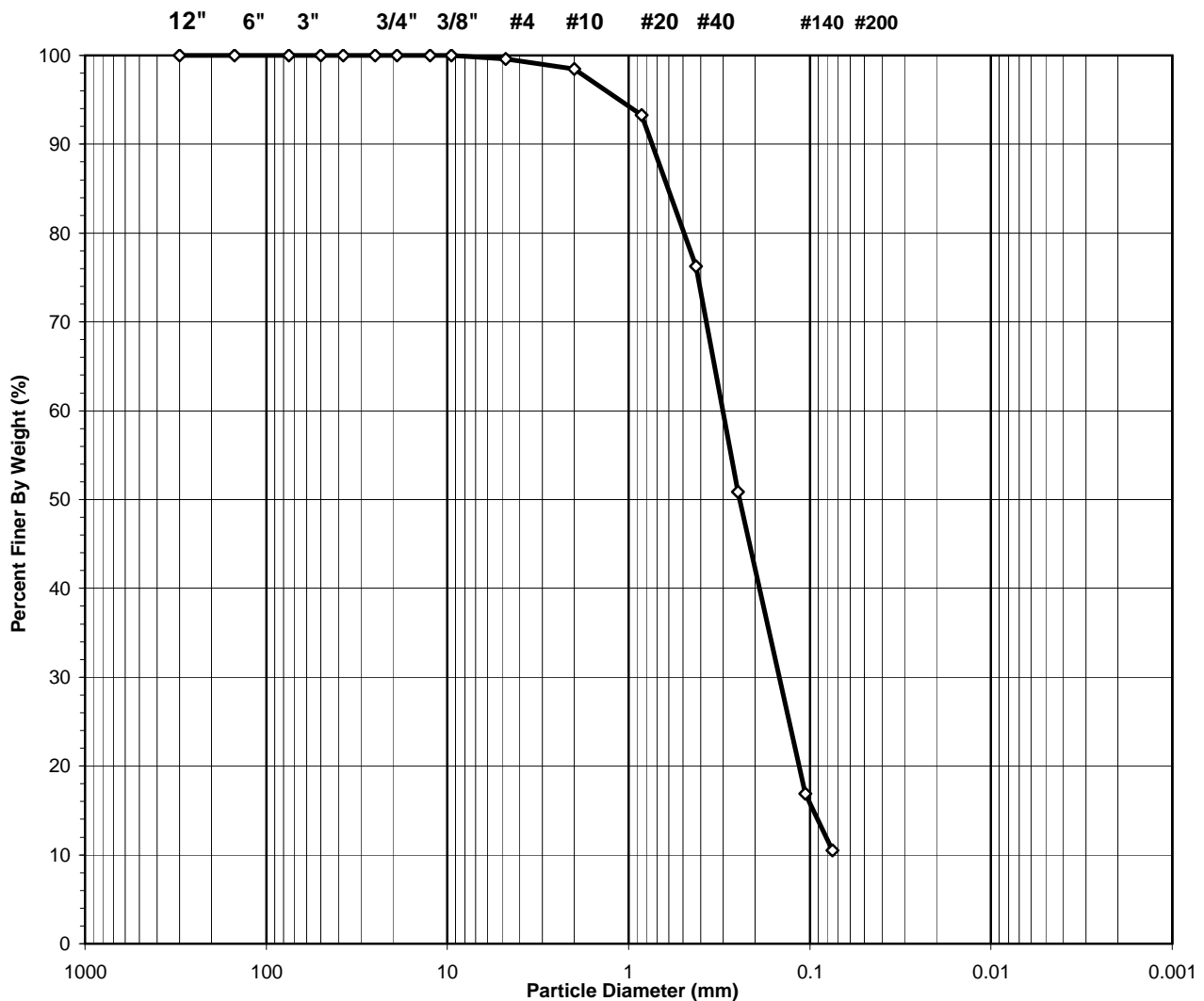
Tested By **PC** Date **9/18/14** Checked By **KC** Date **9/19/14**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client:	TestAmerica Pittsburgh	Boring No.:	Strata Fill (XP-SM)
Client Reference:	115130, GLOVERSVILLE	Depth (ft):	NA
Project No.:	2014-531-001	Sample No.:	180-36440-8
Lab ID:	2014-531-001-002	Soil Color:	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol: *sp-sm, ASSUMED* **D60 = 0.30** **CC = 0.96**

USCS Classification: *POORLY GRADED SAND WITH SILT* **D30 = 0.15** **CU = 4.02**

D10 = 0.08

Tested By **PC** Date **9/18/14** Checked By **KC** Date **9/19/14**

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client:	TestAmerica Pittsburgh	Boring No.:	Strata Fill (XP-SM)
Client Reference:	115130, GLOVERSVILLE	Depth (ft):	NA
Project No.:	2014-531-001	Sample No.:	180-36440-8
Lab ID:	2014-531-001-002	Soil Color:	BROWN

Moisture Content of Passing 3/4" Sample		Water Content of Retained 3/4" Sample	
Tare No.	968	Tare No.	NA
Wt. of Tare & Wet Sample (g)	659.00	Weight of Tare & Wet Sample (g)	NA
Wt. of Tare & Dry Sample (g)	579.70	Weight of Tare & Dry Sample (g)	NA
Weight of Tare (g)	100.55	Weight of Tare (g)	NA
Weight of Water (g)	79.30	Weight of Water (g)	NA
Weight of Dry Sample (g)	479.15	Weight of Dry Sample (g)	NA
Moisture Content (%)	16.6	Moisture Content (%)	NA

Wet Weight of -3/4" Sample (g)	NA	Weight of the Dry Sample (g)	479.15
Dry Weight of - 3/4" Sample (g)	428.7	Weight of - #200 Sample (g)	50.45
Wet Weight of +3/4" Sample (g)	NA	Weight of + #200 Sample (g)	428.70
Dry Weight of + 3/4" Sample (g)	0.00		
Total Dry Weight of Sample (g)	NA		

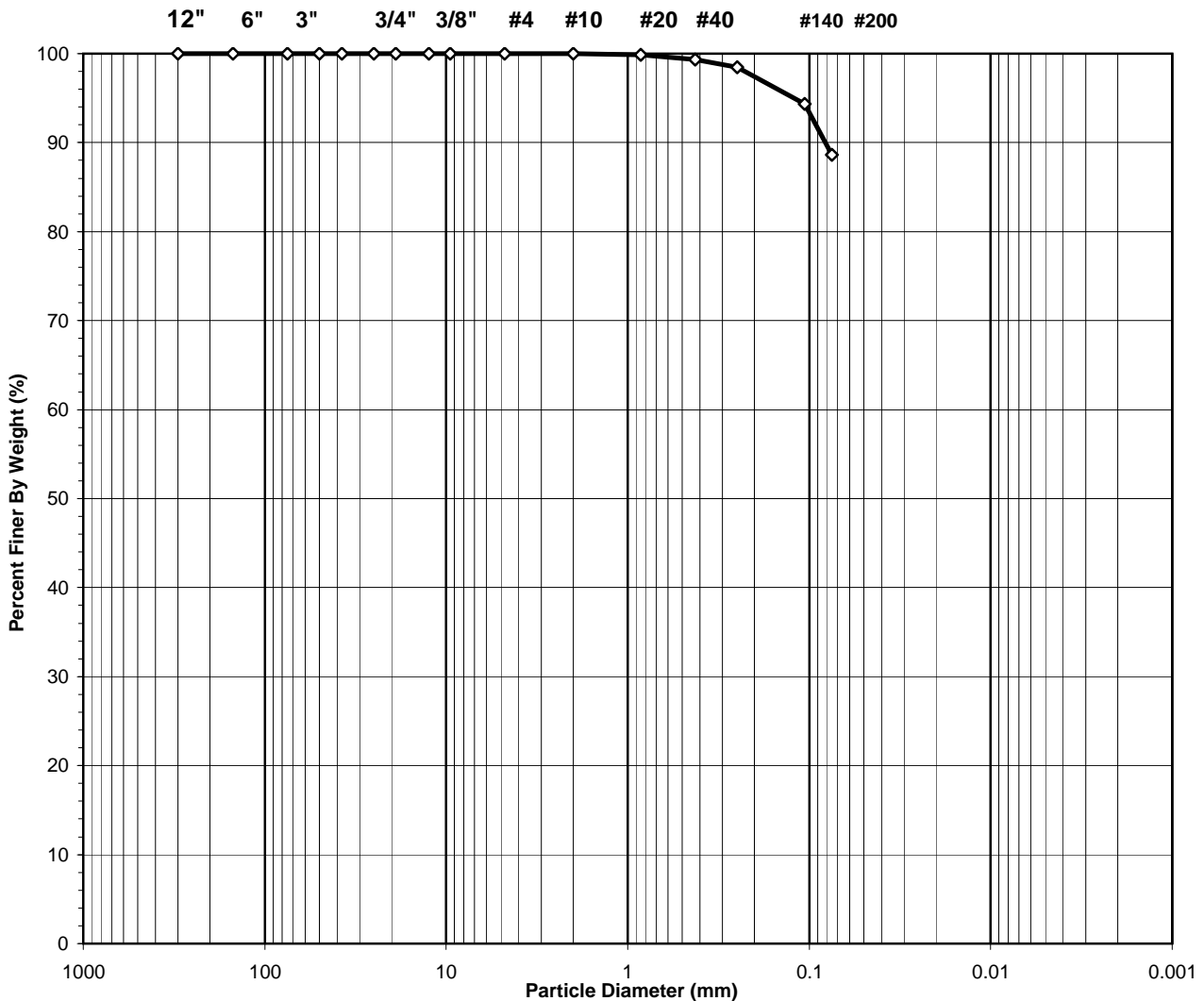
Sieve Size	Sieve Opening (mm)	Weight of Soil Retained (g)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	1.95	0.41	0.41	99.59	99.59
#10	2.00	5.35	1.12	1.52	98.48	98.48
#20	0.850	24.73	5.16	6.68	93.32	93.32
#40	0.425	81.61	17.03	23.72	76.28	76.28
#60	0.250	121.89	25.44	49.16	50.84	50.84
#140	0.106	162.60	33.94	83.09	16.91	16.91
#200	0.075	30.57	6.38	89.47	10.53	10.53
Pan	-	50.45	10.53	100.00	-	-

Tested By **PC** Date **9/18/14** Checked By **KC** Date **9/19/14**

SIEVE ANALYSIS
ASTM D 422-63 (2007)

Client:	TestAmerica Pittsburgh	Boring No.:	Strata Fill (ML)
Client Reference:	115130, GLOVERSVILLE	Depth (ft):	NA
Project No.:	2014-531-001	Sample No.:	180-36440-9
Lab ID:	2014-531-001-003	Soil Color:	GRAYISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol: *ml, ASSUMED*

USCS Classification: *SILT*

Tested By PC Date 9/18/14 Checked By KC Date 9/19/14

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client:	TestAmerica Pittsburgh	Boring No.:	Strata Fill (ML)
Client Reference:	115130, GLOVERSVILLE	Depth (ft):	NA
Project No.:	2014-531-001	Sample No.:	180-36440-9
Lab ID:	2014-531-001-003	Soil Color:	GRAYISH BROWN

Moisture Content of Passing 3/4" Sample		Water Content of Retained 3/4" Sample	
Tare No.	644	Tare No.	NA
Wt. of Tare & Wet Sample (g)	570.40	Weight of Tare & Wet Sample (g)	NA
Wt. of Tare & Dry Sample (g)	490.60	Weight of Tare & Dry Sample (g)	NA
Weight of Tare (g)	100.65	Weight of Tare (g)	NA
Weight of Water (g)	79.80	Weight of Water (g)	NA
Weight of Dry Sample (g)	389.95	Weight of Dry Sample (g)	NA
Moisture Content (%)	20.5	Moisture Content (%)	NA

Wet Weight of -3/4" Sample (g)	NA	Weight of the Dry Sample (g)	389.95
Dry Weight of - 3/4" Sample (g)	44.3	Weight of - #200 Sample (g)	345.69
Wet Weight of +3/4" Sample (g)	NA	Weight of + #200 Sample (g)	44.26
Dry Weight of + 3/4" Sample (g)	0.00		
Total Dry Weight of Sample (g)	NA		

Sieve Size	Sieve Opening (mm)	Weight of Soil Retained (g)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	0.02	0.01	0.01	99.99	99.99
#20	0.850	0.44	0.11	0.12	99.88	99.88
#40	0.425	2.14	0.55	0.67	99.33	99.33
#60	0.250	3.25	0.83	1.50	98.50	98.50
#140	0.106	16.20	4.15	5.65	94.35	94.35
#200	0.075	22.21	5.70	11.35	88.65	88.65
Pan	-	345.69	88.65	100.00	-	-

Tested By **PC** Date **9/18/14** Checked By **KC** Date **9/19/14**



180-36440 Chain of Custody

053766

Client Contact Company Name: <u>GIEI Consultants Inc</u> Address: <u>1301 Trumansburg Rd Suite N</u> City/State/Zip: <u>Ithaca, NY 14850</u> Phone: <u>607 216 8955</u> Fax: _____ Project Name: <u>Gloversville Farmer Mtn P</u> Site: <u>Gloversville</u> P O # <u>115130</u>		Project Manager: <u>Jennifer Belmont</u> Site Contact: <u>Carol Schmidt</u> Date: <u>9/5/14</u> Lab Contact: <u>Dave Dunlop</u> Carrier: _____ COC No: _____ of _____ COCs					
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Specific Notes: <u>Send EDD to data group @ gienconsultants.com</u>					
Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Carrier
9/3	1315	G	Soil	6	N	N	8260C-LL 50MD 12 RB
9/3	1350	G	Soil	6	N	N	8260C-LL 50MD 12 RB
9/3	1430	G	Soil	6	N	N	8260C-LL 50MD 12 RB
9/3	1500	G	Soil	6	N	N	8260C-LL 50MD 12 RB
9/5	0945	C	Soil	2	N	N	7470A-Mercury
9/5	0945	C	Soil	1	N	N	7470A-Mercury
9/5	1030	C	Soil	1	N	N	8260C-TIP Volatiles
9/5	1030	C	Soil	1	N	N	8260C-TIP Volatiles
9/5	1030	C	Soil	1	N	N	8260C-TIP Volatiles
9/5	1115	C	Water	6	N	N	7470A-Mercury
---	---	---	Water	4	N	N	7470A-Mercury
Preservation Used: 1-Ice, 2-HCl, 3-H2SO4, 4-HNO3, 5-NAOH, 6-Other _____ Possible Hazard Identification: _____ Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. _____ <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Unknown							
Special Instructions/QC Requirements & Comments: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Custody Seal No.: _____ Relinquished by: <u>GIEI</u> Relinquished by: <u>Carol Schmidt</u> Relinquished by: <u>Reag 11/14</u>		Date/Time: <u>9/5-130</u> Date/Time: <u>9-5-14 11:00</u> Date/Time: _____		Company: <u>GIEI</u> Company: <u>Reag 11/14</u> Company: _____		Received by: <u>Reag 11/14</u> Received by: _____ Received in Laboratory by: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temp. (°C): Obs'd: _____ Corrd: _____ Therm ID No.: _____		Date/Time: <u>9-5-14 15:35</u> Date/Time: <u>9/6/14 1015</u> Date/Time: _____		Company: <u>Syr</u> Company: <u>TAP</u> Company: _____	



Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 180-36440-2

Login Number: 36440

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Butcher, Ryan M

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



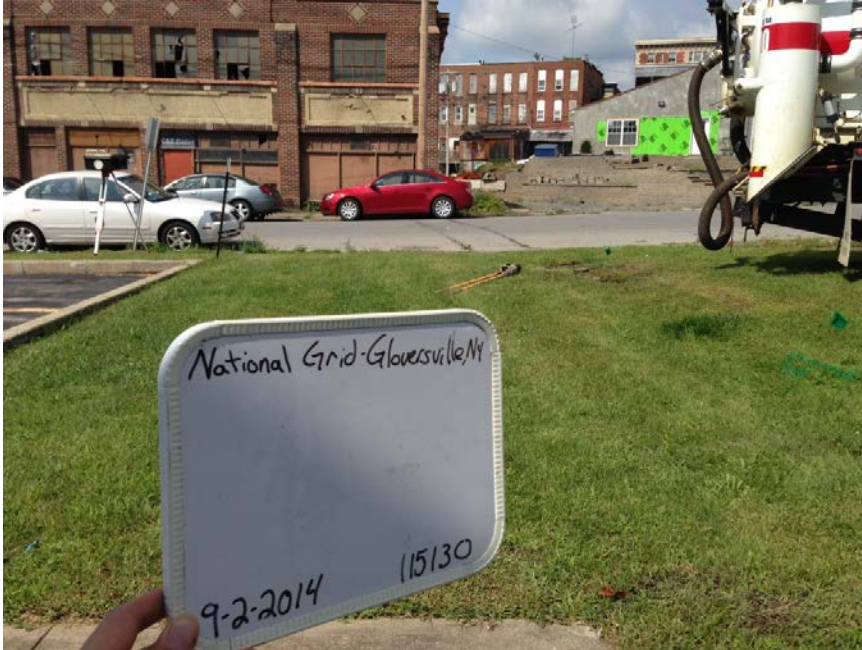
Appendix E

Photographs

Photographic Record
GEI Consultants, Inc., P.C.

Project: National Grid – Gloversville MGP Pre-Design Investigation

Location: Gloversville, NY



Photographer: G. Schmidt

Date: 9/2/2014

Photo No.: 1

Direction: W

Comments:
View along marked sewer
line (in green)



Photographer: G. Schmidt

Date: 9/2/2014

Photo No.: 2

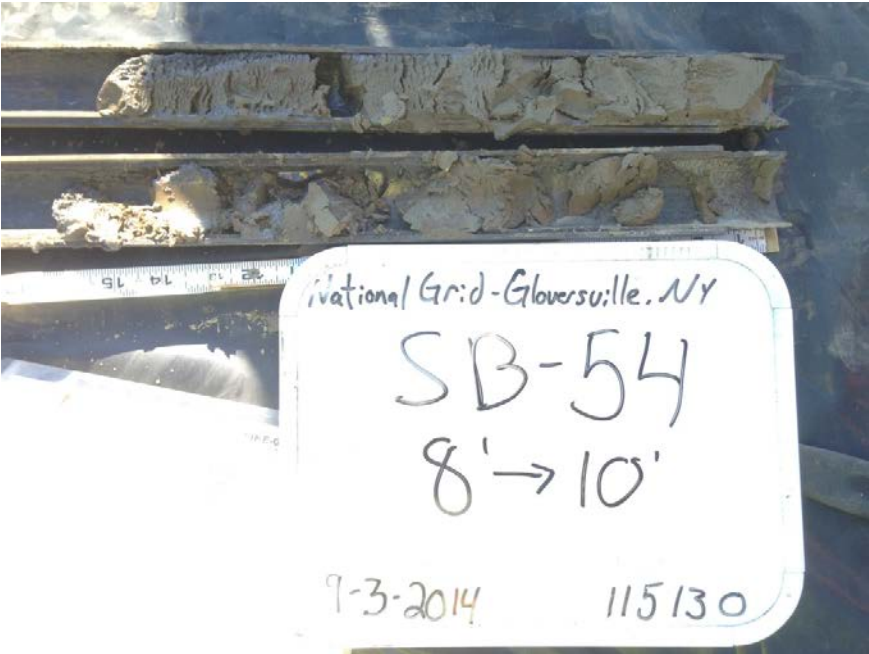
Direction: NE

Comments:
Pre-clear location AK-G1
along gas line.

Photographic Record
GEI Consultants, Inc., P.C.

Project: National Grid – Gloversville MGP Pre-Design Investigation

Location: Gloversville, NY



Photographer: G. Schmidt
Date: 9/3/2014
Photo No.: 3
Direction: NA

Comments:
Typical soil SB-54 8-10'.



Photographer: G. Schmidt
Date: 9/4/2014
Photo No.: 4
Direction: NA

Comments:
Typical soil SB-54 16-18'.

Photographic Record
GEI Consultants, Inc., P.C.

Project: National Grid – Gloversville MGP Pre-Design Investigation

Location: Gloversville, NY



Photographer: G. Schmidt

Date: 9/4/2014

Photo No.: 5

Direction: NA

Comments:
Typical soil SB-54 24-26'



Photographer: G. Schmidt

Date: 9/4/2014

Photo No.: 6

Direction: N

Comments:
TP-H wooden wall.

Photographic Record
GEI Consultants, Inc., P.C.

Project: National Grid - Gloversville MGP Pre-Design Investigation

Location: Gloversville, NY



Photographer: G. Schmidt

Date: 9/4/2014

Photo No.: 7

Direction: W

Comments:

TP-H – more wood wall
section of holder.



Photographer: G. Schmidt

Date: 9/5/2014

Photo No.: 8

Direction: NA

Comments:

TP-South.

**Photographic Record
GEI Consultants, Inc., P.C.**

Project: National Grid - Gloversville MGP Pre-Design Investigation

Location: Gloversville, NY



Photographer: G. Schmidt

Date: 9/5/2014

Photo No.: 9

Direction: NA

Comments:
TP-South.

Appendix F

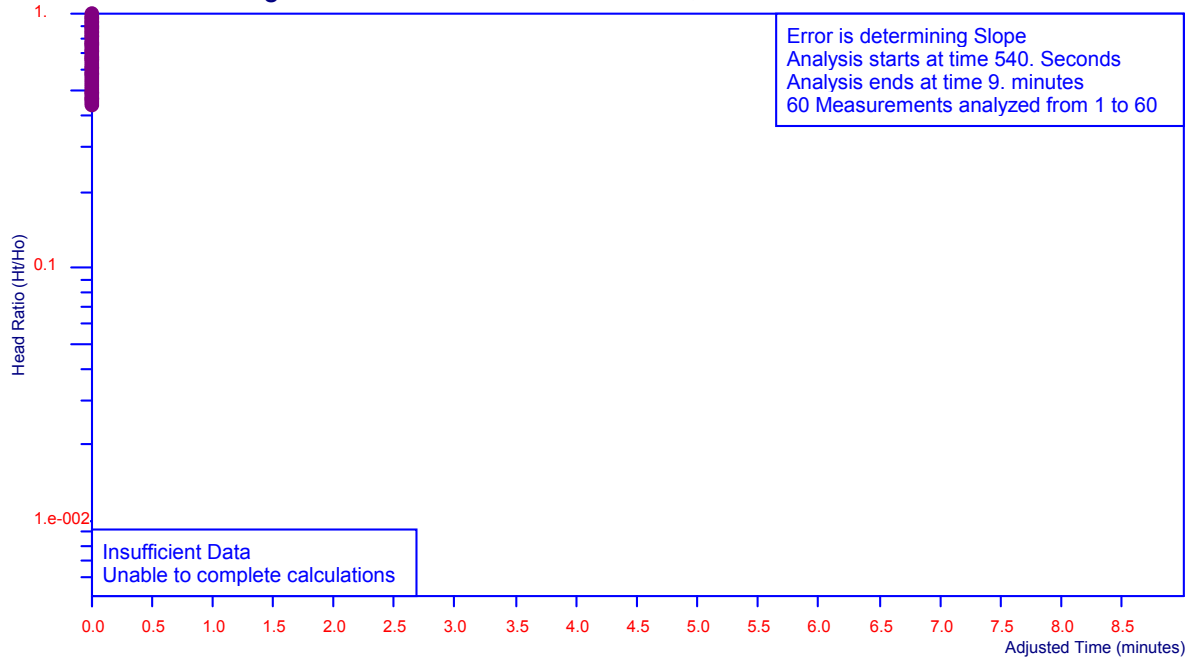
Hydraulic Conductivity Test Data

SB-51 Rising Head Pump Test 9/4/2014

Bouwer and Rice Graph

Gloversville Washington St Former MGP Gloversville, NY

SB-51



Project Number: 115130 for National Grid
Analysis by Starpoint Software

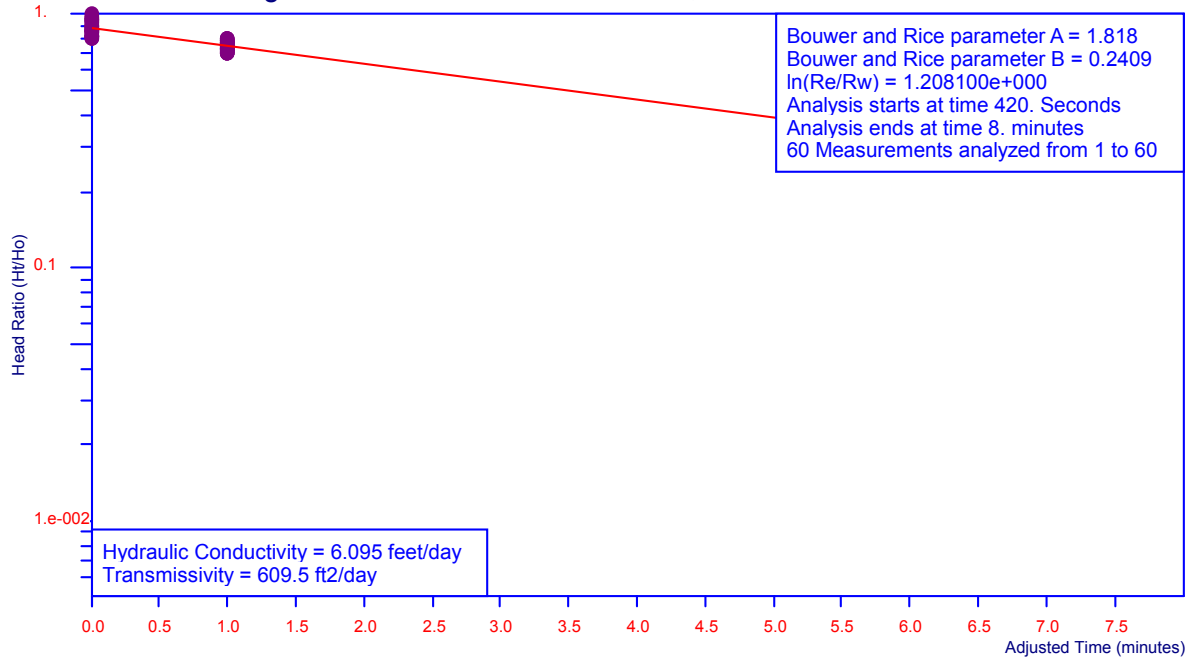
H_o is 4.95 feet at 540. Seconds

SB-54 Rising Head Pump Test 9/4/2014

Bouwer and Rice Graph

Gloversville Washington St Former MGP Gloversville, NY

SB-54



Project Number: 115130 for National Grid
Analysis by Starpoint Software

Ho is 1.1 feet at 420. Seconds