REMEDIAL INVESTIGATION REPORT FOR THE FORMER TEMCO UNIFORMS SITE

SITE NUMBER 344054

Prepared For:

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation

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CERTIFICATION STATEMENT

FORMER TEMCO UNIFORMS SITE
REMEDIAL INVESTIGATION REPORT
WEST HAVERSTRAW, NEW YORK

I, Thomas Drachenberg, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

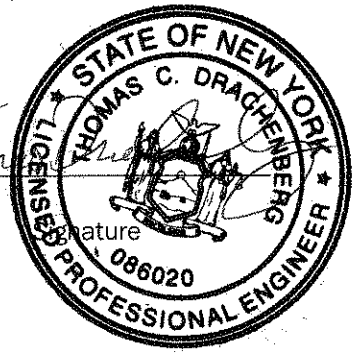
I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Thomas Drachenberg, of Parsons, am certifying as Owner's Designated Site Representative for the site.

086020 — NYS Professional Engineer #

2/27/18 — Date

Signature



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ASTM	American Society of Testing and Materials
bgs	Below Ground Surface
DUSR	Data Usability Study Report
FEMA	Federal Emergency Management Agency
ID	Inside Diameter
IDW	Investigation-Derived Waste
IRM	Interim Remedial Measures
mg/L	Milligrams Per Liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
mw	Monitoring Well
NAD	North American Datum
NAVD	North American Vertical Datum
NYCRR	New York Codes Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	Tetrachloroethylene
PID	Photoionization Detector
QA	Quality Assurance
QC	Quality Control
RI	Remedial Investigation
SCO	Soil Cleanup Objective
SVOC	Semi-Volatile Organic Compound
SGV	Standards and Guidance Value
Site	Former Temco Uniforms Site
SPT	Standard Penetration Tests
TAGM	Technical and Administrative Guidance Memorandum
TCE	Trichloroethylene
TCL	Target Compound List
ug/L	Micrograms Per Liter
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

SECTION 1 - INTRODUCTION

This Remedial Investigation (RI) Report presents results of investigation activities conducted at the Former Temco Uniforms Site (Site Number 344054) for investigation work completed at the site in 2012-13 and additional work completed in 2015-16. The purpose of the remedial investigation is to further determine the extent of the Tetrachloroethylene (PCE) and related chlorinated byproducts that have been detected previously in soil and groundwater in the vicinity of former dry cleaning operations. Remedial investigation activities described in this report were performed in accordance with the New York State Department of Environmental Conservation (NYSDEC) DER-10 technical guidance and a written work scope (Parsons, 2012 and Parsons, 2015) approved by NYSDEC prior to commencing investigation activities.

The Former Temco Uniforms Site (the site) is a 2.6-acre parcel located at 29 Samsondale Avenue in the village of West Haverstraw, Rockland County, New York (Figure 1) located approximately 25 miles north-northwest of New York City and west of the Hudson River. The site is located near the edge of the village, adjacent to a residential area. Railroad tracks border the south-southwest side of the site. A perimeter fence encloses the property which contains an abandoned one-story building. The site has remained unused since the building became vacant in 2002.

1.1 SITE AND SURROUNDING DEVELOPMENT

The site is situated at a ground surface elevation of approximately 79 to 85 feet above mean sea level with an approximate 6-foot drop in elevation generally from the northwest to the southeast across the site. This slope follows the general area topography toward Minisceongo Creek, located approximately 0.5 miles south-southeast of the site, and the Hudson River further downstream (see Figure 1). The site is currently largely overgrown with brush vegetation away from the existing building.

Soils at the site are described as brown fine to coarse silty sand, fine gravel, and cobbles with a layer of fill at the surface. Glacial till/silt and bedrock underlie beneath site soils Depth to bedrock is approximately 90 feet below the ground surface (bgs) based on information from the installation of a former water supply well and a deep monitoring well at the site. Bedrock consists of sandstone, shale and conglomerate (Environmental Business Consultants, 2009). The available soil boring logs were used to construct geologic cross sections A-A' and B-B' depicting the geologic units at the Site which are shown in plan view and cross section on Figure 2 through 4.

The site was initially developed in 1958 when the single-story masonry building was constructed for the manufacturing of vacuum bags, tape and labels (HRP Associates, 1997). Dry cleaning operations were conducted reportedly in the eastern portion of the building from 1985, when Temco Uniforms purchased the site, until 2002. The western portion of the building was used for clothing production and tailoring. Dry cleaning machines and a former wash trench were reportedly located within approximately 40 feet of the northeastern corner of the building near where MW-3 and MW-5 were later installed (see Figure 2 in Environmental Business Consultants, 2009). The site has been vacant since 2002, and the building is in an advanced state of disrepair. The site is reportedly zoned industrial (Environmental Business Consultants, 2009). A 6,000-gallon underground fuel oil storage tank was removed from the site in 2005 after the building was vacated.

No water supply wells have been identified downgradient of the site. The nearest water supply well found during a records search for this remedial investigation is located at least 1.5 miles west of the site. No

wetlands exist on or adjacent to the site based on NY State and Federal wetland mapping. The nearest mapped wetlands are on the south side of Minisceongo Creek. The 100-year floodplain, as delineated by the Federal Emergency Management Agency (FEMA), is not present in the vicinity of the site.

1.2 PREVIOUS SITE INVESTIGATIONS

Prior investigations conducted at the site include a Phase I site assessment in 1996, a Phase II subsurface investigation in 1996, a follow up subsurface investigation in 1997, and a Brownfield site investigation completed in 2008. Characterization activities prior to this remedial investigation included soil borings, soil sampling, monitoring well (MW) installations, groundwater sampling, and soil vapor work (within the onsite building). A total of 12 monitoring wells were installed at the site prior to this remedial investigation. Each of the existing 12 monitoring wells was constructed with a ten-foot long screen. Nine of the monitoring wells have a well depth of 34 to 35 feet. The remaining three monitoring wells have well depths of 56 to 60 feet.

The Phase I Environmental Site Assessment was completed in 1996 by Professional Service Industries, Inc. Media sampling was not included as part of the Phase I work.

The Phase II Subsurface Investigation was completed in November 1996 by HRP Associates, Inc. and included six soil borings in the vicinity of two loading docks and two fuel oil storage tanks, as well as a water sample from the onsite former process supply well. A follow-up subsurface investigation was completed in March 1997 by HRP Associates that included a soil gas survey inside the onsite building, 16 soil borings throughout the site, installation of monitoring wells at five of the 16 soil boring locations (MW-1 through MW-5), and a round of groundwater sampling. Conclusions from the 1996-1997 investigation work (HRP Associates, 1997) were:

- Soil gas was collected from 22 locations within and adjacent to the Temco building. Results indicated the highest PCE concentrations in the central portion of the building, extending west. Concentrations observed ranged from no -detect to 138 ppm t, of which only two concentrations were observed greater than 100 ppm. Both elevated concentrations were located in the vicinity of the former cleans unit.
- PCE concentrations in soils exceeding NYSDEC Technical and Administrative Guidance Memorandum # 4046 (TAGM 4046) soil cleanup objectives at that time (1.4 mg/kg) were detected in the vicinity of the former dry cleaning machine and in the vicinity of one of the loading docks at the west side of the building. One PCE sample taken adjacent to the former dry cleaning machine resulted in a concentration of 7.76 mg/kg which exceeded the cleanup objective of 1.4 mg/kg. Three samples exceeding cleanup objective were also observed adjacent to the loading dock ranging from 1.82 – 6.25 mg/kg. All other sample PCE concentrations were either non-detect or below the cleanup objective shown above.
- PCE concentrations exceeding NYSDEC Class GA groundwater quality standards were detected in MW-1 through MW-5, but not in the onsite former process supply well. Results of this investigation are presented on the Cumulative Groundwater VOC Analytical Data Table 5 of the HRP report.
- Groundwater movement is generally to the south, toward Minisceongo Creek.

A second site investigation was conducted between October 23, 2006 and January 30, 2008 as part of the New York State Brownfields Cleanup Program (Environmental Business Consultants, 2009). This investigation included:

- 24 soil borings ranging in depth from eight to 45 feet to evaluate the extent of contamination and obtain general soil quality information,
- Collection of two surface soil samples near a former transformer pad,
- Installation in of seven additional monitoring wells (MW-6 through MW-10D) in 2007,
- A round of groundwater sampling, including the former process supply well; and
- A soil vapor investigation beneath the site and the onsite building slab.

Conclusions from the 2006 to 2008 investigation work were:

- Elevated soil gas concentrations of PCE and/or trichloroethylene (TCE) were detected near the former dry cleaning machine, which would warrant mitigation if the building was occupied. Total VOC concentrations detected in soil-gas samples collected during the Brownfield Investigation ranged from 121 ug/3M at SG7 near the downgradient property line to 34,480 ug/3M at SG8 located in the northeast corner of the site and closest to the suspected source.
- Semi-volatile organic compounds (SVOCs) detected in surface soil samples were reported to be likely related to minor residuals associated with the 2005 removal of a fuel oil underground storage tank.
- PCE exceedences above TAGM #4046 in soil samples was limited to an area of 185 square feet and to a maximum depth of 8 feet bgs in the vicinity of the former dry cleaning machine along the northeast corner of the building. Soil impacted with PCE has not been in contact with groundwater, and PCE was not identified as being transported to groundwater via dense non-aqueous phase liquid.
- PCE concentrations in groundwater were highest near the former dry cleaning machine. However, samples from this area indicated that PCE concentrations were an order of magnitude lower than results from samples collected during the first groundwater assessment conducted in 1996. Results of this investigation are presented on the Cumulative Groundwater VOC Analytical Data Table 7 of the Browndfield report.
- Typical depths to groundwater were 25 to 32 feet bgs.

SECTION 2 - REMEDIAL INVESTIGATION ACTIVITIES

Remedial Investigation (RI) site activities were conducted by Parsons in accordance with the Phase I and the Phase II work scopes approved in advance by NYSDEC (Parsons, 2012 and Parsons, 2015). The RI consisted of a site topographic survey, a soil vapor intrusion investigation, surface soil investigation, subsurface soil investigation, and groundwater investigation. Each field activity is discussed below.

2.1 SITE PREPARATION AND UTILITY CLEARANCE

Brush was cleared from the site in early Spring 2012, after which Dig Safely New York was contacted. Ground-penetrating radar surveying of the site was conducted to locate existing monitoring wells and any potential additional buried utility lines on the site. During 2015/2016 investigation activities, brush clearing was not necessary and ground-penetrating radar was completed onsite and offsite prior to the start of intrusive field activities.

2.2 SITE TOPOGRAPHIC SURVEY

A site topographical survey was completed by a New York State-licensed land surveyor in 2012. The site survey included collecting as-built information for monitoring wells and soil borings, locations of site features, and ground surface elevations. Horizontal survey data are based on the North American Datum (NAD) 83 New York State Plane (Central Zone) coordinate system (in feet). Elevations are based on the North American Vertical Datum (NAVD) 88.

2.3 SOIL VAPOR INTRUSION INVESTIGATION

Vapor intrusion evaluation sampling was conducted at six offsite residential properties located near the site. Vapor intrusion sampling was initially performed at four properties in April 2012: for the purposes of this report the properties are defined as Property 1, Property 2, Property 3, and Property 4 (Figure 5). A second round of vapor intrusion sampling was performed in March 2013 at Property 5, Property 6, and a second time at Property 3 (Figure 6).

Prior to the collection of soil vapor intrusion samples, a building survey and chemical inventory was conducted and a questionnaire form was completed for each sampled property.

One sub-slab vapor sample and one corresponding basement indoor air sample were collected at each property. In addition, one ambient (outdoor) air sample was collected during each sampling event. Samples were collected in pre-evacuated, certified clean, 6-liter Summa® canisters equipped with laboratory-calibrated, constant-differential, low volume flow controllers. Canisters were batch certified-clean for sub-slab samples and individually certified-clean for indoor and ambient air samples.

Sub-slab vapor samples were installed by drilling a 3/8-inch diameter hole in the building's concrete slab; inserting inert food-grade sample tubing into the hole; sealing the tubing to the slab with permagum grout; purging the tubing of indoor air; and slowly pulling sub-slab air into a canister.

Ambient and indoor air samples were collected by slowly pulling air into the canisters, which were situated at a height of approximately 3 to 5 feet above the ground or slab/floor. Sample collection rates were maintained by the flow controllers. All samples were collected over a 24-hour period and shipped to a certified commercial laboratory for analysis of volatile organic compounds (VOCs).

Validated soil vapor intrusion analytical results for detected compounds are summarized and illustrated on Figures 5 and 6 and provided on Tables 1A and 1B. Complete soil vapor analytical results from both the 2012 and 2013 sampling events are included in the data usability summary reports (DUSR) for soil vapor sampling as Appendices A and B.

2.4 SURFACE SOIL INVESTIGATION

As part of the RI, surface soil sample locations were selected in the field with the NYSDEC Project Manager, following a complete review of historical site information that was provided by NYSDEC. Surface soil samples were collected in 2012, with a hand auger to a depth of six inches, at six representative site locations where impacts from prior site operations may have occurred. Surface soil sample locations and results are presented on Figure 7. One soil sample from each location was analyzed for SVOCs (United States Environmental Protection Agency (USEPA) Method 8270).

Validated surface soil analytical results for detected compounds are summarized and compared to 6 New York Codes Rules and Regulations (6 NYCRR) Part 375 Soil Cleanup Objectives (SCOs) for unrestricted use on Table 2, and illustrated on Figure 7. Complete surface soil analytical results are included in the DUSR for 2012 Soil and Groundwater Sampling as Appendix C.

2.5 SUBSURFACE SOIL INVESTIGATION

The subsurface soil investigation was completed as part of the RI in order to identify soil contamination below the floor of the former Temco Uniforms onsite building. Seven soil borings were advanced between August 29 and 31, 2016 within the north-east portion of the onsite building. All soil borings were completed to a depth of 20 feet using direct push methods. Two subsurface soil samples were collected from each location for analysis of Target Compound List (TCL) VOCs using USEPA Method 8260B. Soil sample depth intervals were determined based on one sample collected at the vertical interval exhibiting the highest photoionization detector (PID) reading and/or visual contamination or odors, and one sample collected at or near the bottom of the soil boring.

Validated subsurface soil analytical results for detected compounds are summarized and compared to 6 NYCRR Part 375 SCOs for unrestricted use on Table 3, and illustrated on Figure 8. Complete subsurface soil analytical results are included in the DUSR for 2015-2016 Soil and Groundwater Sampling as Appendix D. Soil boring log records are included in Appendix E.

2.6 GROUNDWATER INVESTIGATION

The site groundwater investigation was completed in two phases. Phase I (completed in 2012) was conducted as a two-step investigation. The first step consisted of collecting water level measurements, well re-development (as necessary), and a round of groundwater sampling and analysis of select existing wells onsite. The next step consisted of the installation and development of additional wells based on the results of the first

step groundwater sampling. Water level measurements were collected and a second round of groundwater sampling and analysis was conducted. In 2013 an additional round of water level measurements was completed. Phase II (completed in 2015/2016) consisted of the installation and development of two new wells offsite, two rounds of monitoring collect water level measurements, and one full round of groundwater sampling and analysis from all wells on and offsite.

2.6.1 PHASE I INVESTIGATION

The purpose of the site groundwater investigation was to identify the horizontal extent of groundwater contamination. This step planned on collecting groundwater samples from the 11 existing site monitoring wells outside of the building and from the former supply well provided it was accessible. During a site visit on February 23, 2012, only three of the existing 11 monitoring wells could be located. Brush clearing activities were conducted at the site in early spring 2012 and a ground-penetrating radar survey of the site was conducted try to locate existing monitoring wells that had not been located after brush clearing activities. All but two of the monitoring wells outside of the building (MW-4 and MW-9) were located. MW-6 and MW-7 were located inside the building onsite, which was not safe to access at the time.

Groundwater level measurements and groundwater samples were collected on May 23, 2012 from seven existing monitoring wells (MW-1, MW-3, MW-5, MW-8S, MW-8D, MW-10S, and MW-10D) using low flow sampling techniques.. Validated groundwater analytical results for detected compounds are summarized and compared to NYSDEC Class GA groundwater standards and guidance values (SGVs) on Table 4, and illustrated on Figures 2 and 9.. Groundwater samples were not collected from MW-2 because the well was dry. Groundwater samples were also not collected from the former supply well onsite, as the sample port for this well was believed to be located inside the building, which was structurally unsafe to enter. Complete groundwater analytical results from this sampling round are included in the DUSR for 2012 Soil and Groundwater Sampling as Appendix C.

Analytical results from the groundwater investigation in May 2012 were used to identify additional soil boring/monitoring well locations and well screen depths for the next step of the Phase I groundwater investigation. As shown on Figure 9, one offsite and four onsite monitoring wells were installed in the fall of 2012. One of the onsite wells was installed to the top of bedrock (MW-11) near the monitoring well with the highest groundwater concentrations observed in May 2012 (MW-8S), in order to assess the nature and vertical extent of contamination through the overburden. The other four wells (MW-12 through MW-15) were installed at locations downgradient of the onsite building to a depth of 35 feet bgs (approximately 10 feet below the water table). MW-15 was installed offsite on residential property south-east of the site.

Each of the fall 2012 monitoring wells were installed using 4.25-inch inside diameter (ID) hollow stem augers. Following hand clearance to five feet bgs, soil borings were drilled into the overburden and split-spoon samples were collected continuously at each of the five monitoring well locations (MW-11, MW-12, MW-13, MW-4, and MW-15). Standard Penetration Tests (SPT) were performed continuously per American Society of Testing and Materials (ASTM) method D1586. Samples were visually examined in the field and physical characteristics were described using the Unified Soil Classification System (USCS). Based on split spoon sample information, the elevation of the top of the till at that location is 82 feet bgs and refusal (assumed to be the top of bedrock) was encountered at 89.5 feet bgs.

Headspace readings were taken from each soil sample. Subsurface soil samples for chemical analysis were selected based on the following criteria:

- Vertical interval exhibiting the highest PID reading;

- Visual observations (presence of contamination or odors); and/or
- Water table depth.

Subsurface soils selected for chemical analyses were analyzed in a commercial laboratory for VOCs using USEPA Method 8260. For quality assurance (QA)/quality control (QC) purposes, one field duplicate sample, and one matrix spike/matrix spike duplicate (MS/MSD) set was collected and analyzed. Validated monitoring well soil boring analytical results for detected compounds are summarized and compared to unrestricted SCOs on Table 5 and illustrated on Figure 8. Complete monitoring well soil analytical results are included in the DUSR for 2012 Soil and Groundwater Sampling as Appendix C.

After the total depth of each monitoring well was identified, a two-inch ID schedule-40 PVC well with a 10 foot, 0.010-inch slot size well screen was installed. The annulus around the outside of the screen was backfilled with sand to two feet above the screen, followed by a bentonite seal above the sand pack. The seal in each well was allowed to hydrate prior to the placement of grout above it. Each well was completed with a flush mount protective cover. A monitoring well construction log for each of these monitoring wells is provided in Appendix E.

Each monitoring well was developed to remove fines that may have settled within the well and sand pack during installation. Monitoring well development and sampling logs are provided in Appendix F.

A second round of groundwater level measurements and groundwater sampling was completed in November 2012. Validated groundwater analytical results for detected compounds are summarized and compared to NYSDEC Class GA SGVs on Table 6 and illustrated on Figure 9. Complete groundwater analytical results from this sampling round are included in the DUSR for 2012 Soil and Groundwater Sampling as Appendix C. This round of groundwater sampling included samples from the 10 wells (MW-11 through MW-15, MW-1, MW-3, MW-8S, MW-8D, and MW-10D). Groundwater samples were analyzed using USEPA Method 8260 for TCL VOCs consistent with previous investigations. Groundwater samples from MW-11 through MW-15 were also analyzed for natural attenuation parameters including nitrate, sulfate, chloride, methane, and dissolved organic carbon.

In January 2013, another round of groundwater level measurements were collected from site wells.

2.6.2 PHASE II INVESTIGATION

Monitoring Well Installation

As shown on Figure 2 and 9, two offsite monitoring wells were installed during the Phase II groundwater investigation in December 2015 in order to enhance the assessment of groundwater quality and potential offsite contaminant migration via groundwater. The installation of these wells will help define the horizontal extent of the groundwater plume. In addition, a round of groundwater level measurements were collected from site wells.

Following hand clearance to five feet bgs, soil borings were drilled into the overburden and split-spoon samples were collected continuously at each offsite location (MW-16 and MW-17) to the end of the boring at 40 feet bgs. SPTs were performed continuously per ASTM method D1586. Samples were visually examined in the field and physical characteristics were described using the USCS.

Headspace readings were taken from each soil sample. No readings were observed above 0 ppm when screening soils with the PID, and no visual evidence of contamination or odors were observed. Therefore,

subsurface soil sample intervals for chemical analysis were selected based on the vertical interval in the vicinity of the water table. Soil samples selected for chemical analyses were sent to a commercial laboratory for analysis of TCL VOCs using USEPA Method 8260. For QA/QC purposes, one field duplicate sample, and one MS/MSD set was collected and analyzed. Validated monitoring well soil boring analytical results for detected compounds are summarized and compared to unrestricted SCOs on Table 7 and illustrated on Figure 8. Complete monitoring well soil analytical results are included in the DUSR for 2015-2016 Soil and Groundwater Sampling as Appendix D.

At both locations, once the total depth of 40 feet bgs was achieved, a two-inch ID schedule-40, PVC well screen with a 0.010-inch slot size was installed. At location MW-16, the screen was installed from 26 to 36 feet bgs. At location MW-17, the screen was installed from 29 to 39 feet bgs. The annulus around the outside of the screen was backfilled with sand to two feet above the screen, followed by a bentonite seal above the sand pack. The seal in each well was allowed to hydrate prior to the placement of grout above it. Each well was completed with a flush mount protective cover. A monitoring well construction log for each of these wells is presented in Appendix E. Each monitoring well was developed based on field readings (i.e. turbidity). Monitoring well development logs are presented in Appendix F.

Groundwater Sampling

In August and September of 2016 a round of water level measurements and a round of groundwater sampling using low flow sampling techniques was completed. Groundwater contours based on this round of groundwater level measurements are presented on Figure 10. Validated groundwater analytical results for detected compounds are summarized and compared to NYSDEC Class GA SGVs on Table 8 and illustrated on Figure 9. Complete groundwater analytical results from this sampling round are included in the DUSR for 2015-2016 Soil and Groundwater Sampling as Appendix D. This round of groundwater sampling included samples from all previously installed monitoring wells that were able to be located and were in satisfactory condition (MW-1, MW-5, MW-8S, MW-8D, MW-9, MW-10S, MW-10D, MW-11, MW-12, MW-13, MW-14, and MW-15), as well as the two new offsite wells (MW-16 and MW-17) that had been installed in 2015. MW-2 was not sampled because it was dry and MW-3 was not sampled because of a blockage discovered around 7 feet bgs while gauging the well, which would not allow the sampling team to lower the sample pump below this depth. In addition, MW-6 and MW-7 were a located within the footprint of the onsite building, however due to low water volume, heavy fines content, and the suspected integrity of the wells, groundwater samples were not collected. In accordance with Amendment 2 to the Remedial Investigation/Feasibility Study Scope of Work (Task 3) (Parsons, 2015), an attempt was made to locate and sample the onsite supply well within the footprint of the onsite building. The supply well was located, but d the sample port was located approximately 4 feet bgs inside a vault. This was considered a confined space and it was agreed NYSDEC that it would not be sampled.

Groundwater samples were analyzed for TCL VOCs using USEPA Method 8260, consistent with previous efforts. For QA/QC purposes, two field duplicate samples and two matrix spike/matrix spike duplicate samples were collected and analyzed.

2.7 STRUCTURAL SURVEY

An evaluation of the structural integrity of the building on the former Temco Uniforms site was performed on September 16, 2014 per NYSDEC Project Manager's request in a letter dated June 13, 2014 (Draft Remedial Investigation Report Comments). The purpose of the evaluation was to determine whether the building could be safely accessed for the purpose of soil sampling. The field investigation consisted of visual observations made during a site visit by two Parsons employees (one being a structural engineer) and the NYSDEC Project Manager. Observations of the building interior were made from outside of the building at ground level. Observations were focused on the structural stability of the building and safety related aspects for access into

the building. A copy of the engineer certified structural report is included in Appendix G. Generally, the structural assessment concluded that the building would not be safe to enter for investigative activities due to the instability of the roof. The NYSDEC Project Manager indicated that the current property owner for the site intends to renovate the building and make it into a self-storage facility.

The NYSDEC Project Manager obtained drawings for the proposed facility renovations and provided these to Parsons for review. The drawings illustrated the areas where demolition was planned and where additional structural support would be added. Parsons' Structural Assessor reviewed the building plans provided by NYSDEC and indicated that if the renovations were implemented, it would address the concern with the instability of the roof and Parsons would then be able to enter the building and perform subsurface soil investigation activities (as described in Section 2.5).

Renovation plans were initiated, with sufficient building demolition completed by August 8, 2016. After which it was determined the building was safe to enter in order to complete subsurface soil sampling as described in Section 2.5.

2.8 WASTE MANAGEMENT

Investigation-derived waste (IDW), including excess soils, decontamination rinsates, well development water, purge water, and personal protective equipment were placed in Department of Transportation-approved 55-gallon drums. The IDW was evaluated as non-hazardous based on characterization sample results and subsequently disposed of in accordance with applicable NYSDEC regulations.

2.9 DATA VALIDATION AND REPORTING

Data validation was performed in accordance with USEPA Region II standard operating procedures for organic and inorganic data review. These validation guidelines are regional modifications to the National Functional Guidelines for organic and inorganic data review. Validation included the following:

- Verification of 100 percent of all QC sample results (both qualitative and quantitative);
- Verification of the identification of 100 percent of all sample results (both positive hits and non-detects);
- Recalculation of 10 percent of all investigative sample results; and
- Preparation of a DUSR (see Appendices A through D).

The quality of the data has been assessed and is documented in the DUSRs (Appendices A through D). Validated data have been submitted for loading into the NYSDEC database.

SECTION 3 - REMEDIAL INVESTIGATION RESULTS AND NATURE AND EXTENT OF IMPACTS

This section summarizes the results specific to the Remedial Investigation conducted between 2012 and 2016.

3.1 SOIL VAPOR INTRUSION INVESTIGATION RESULTS

Based on the 2012 and 2013 soil vapor intrusion analytical results (Tables 1A and 1B, Figures 5 and 6) for PCE concentrations in sub-slab air and the New York State Department of Health (NYSDOH) guidance matrix (NYSDOH, 2005), mitigation was recommended for Property 1, Property 2, Property 4 and Property 6. Interim Remedial Measures (IRMs) were implemented by NYSDEC at two properties following the review of the 2012 and 2013 results. The Department will continue to work with property owners to identify properties at risk of soil vapor intrusion and recommend mitigation as appropriate

NYSDOH guidance recommends installation of a mitigation system when sub-slab concentrations are in excess of 100 micrograms per cubic meter. NYSDOH also assess indoor air concentrations when considering whether a mitigation system is warranted.

3.2 SURFACE SOIL INVESTIGATION RESULTS

Analytical results for surface soils (Table 2, Figure 7) show a single compound exceeding SCOs for unrestricted use at one sample location, of the six locations sampled. Polynuclear aromatic hydrocarbon (PAH) compound indendo(1,2,3-c,d)pyrene was detected at location SS-04 at a concentration of 0.53 mg/kg, in exceedance of its associated SCO (0.5 mg/kg). No chlorinated compounds were detected at any of the sample locations around and/or in close proximity to the onsite building.

3.3 SUBSURFACE SOIL INVESTIGATION RESULTS

Analytical results for subsurface soils collected within the footprint of the onsite building (Table 3, Figure 8) show no exceedances of VOCs in soils above SCOs for unrestricted use.

3.4 GROUNDWATER INVESTIGATION RESULTS

3.4.1 GROUNDWATER QUALITY

Groundwater quality analytical results from the site (Tables 4, 6, and 8, Figure 9) show contamination from PCE at concentrations above Class GA SGVs. The Class GA Standard for PCE is 5 micrograms per liter (ug/L). Based on the 2016 sampling event of which 14 wells were sampled, 10 were observed to have PCE concentration greater than class GA groundwater standards.

The highest PCE concentrations were observed in site groundwater samples from three locations at more than 20 times the Class GA Standard. The highest PCE concentrations measured in groundwater are outlined below:

- Groundwater samples collected from MW-8S, located near the northeast corner of the former dry cleaning building, resulted in the highest PCE concentrations detected during each sampling round. The sample from MW-8S collected in May 2012 reported a PCE concentration of 280 ug/L. The sample from MW-8S collected in November 2012 was the highest of any PCE detection onsite at a concentration of 350 ug/L. Finally, the sample from MW-8S collected in 2016 reported a PCE concentration of 200 ug/L.
- Groundwater samples collected from MW-3, also located near the northeast corner of the former dry cleaning building, resulted in the second highest PCE concentrations detected during each sampling round, excluding the 2016 sampling event when a blockage prevented sampling of this location. The sample from MW-3 collected in May 2012 reported a PCE concentration of 220 ug/L. The sample from MW-3 collected in November 2012 was the second highest of any PCE detection onsite at a concentration of 300 ug/L.
- Groundwater sample location MW-5, located near MW-3 and MW-8S, is the third location which resulted in PCE concentrations detected more than 20 times its Class GA Standard value. A PCE concentration of 140 ug/L was observed in the sample collected from MW-5 in 2016.

Chloroform was also detected in site groundwater above its Class GA SGV during all sampling rounds. Elevated chloroform concentrations were observed at three locations in May 2012, five locations in November 2012, and only 2 locations in 2016.

Anaerobic reductive dechlorination is the primary process for the natural biodegradation of highly chlorinated solvents, such as PCE, in groundwater. Through reductive dechlorination, PCE would degrade in series sequence to TCE, cis-1,2-dichloroethene, vinyl chloride, and then to the final end product ethene/ethane. Factors listed below suggest that reductive dechlorination does not appear to be naturally occurring in groundwater at this site:

- The lack of significant TCE, cis-1,2-dichloroethene, and vinyl chloride detected in site groundwater suggests reductive dechlorination is limited.
- Dissolved organic carbon was not detected in site groundwater samples collected during the November 2012 sampling event, with the exception of MW-11 at a concentration of 1.1 milligrams per liter (mg/L). PCE typically requires an adequate supply of electron donors (such as organic carbon) to undergo reductive dechlorination.
- Dechlorinating bacteria are known to thrive in waters where dissolved oxygen has been consumed. Concentrations of dissolved oxygen in groundwater above 0.5 mg/L indicate that an environment where the presence of dechlorintated bacteria needed for reductive dechlorination is not significant.
- Nitrate concentrations in groundwater samples measured as part of the November 2012 sampling event averaged 3.63 mg/L, with the lowest recorded concentration detected at MW-11 of 0.76 mg/L. In order for reductive dechlorination to occur, nitrate concentrations should be less than 1.0 mg/L.
- Sulfate concentrations in groundwater samples collected during the November 2012 sampling event averaged 30.1 mg/L, with the lowest recorded concentration detected at MW-13 of 17.2 mg/L. Concentrations of sulfate greater than 20 mg/L do not promote reductive dechlorination.
- Methane was not detected in groundwater samples monitored during the November 2012 sampling event, with the exception of MW-11 at a concentration of 2.6 mg/L. The presence of methane indicates conditions that promote reductive dechlorination.

3.4.2 GROUNDWATER LEVELS

Groundwater levels measured on five different occasions during this investigation from May 2012 to August 2016. The average depth to water at the Site is approximately 28 feet.. The most recent measurements recorded (August 29, 2016) suggested groundwater movement was to the east (Figure 10). Although there have been fluctuations observed in groundwater flow direction from 2012 to 2016, the direction has generally been observed to be to the east/south-east toward Minisceongo Creek/Hudson River. Varying directions of groundwater movement may be slowing the pace at which groundwater is migrating away from the site or source area.

It should be noted that while it appears groundwater flow direction is fluctuating over time the gradient measured between all the wells is typically not greater than 0.75 ft at a given sampling event...

SECTION 4 - EXPOSURE ASSESSMENT

Information collected during the investigations bulleted below have been used to qualitatively assess potential exposure pathways for the various detected compounds in site soils, groundwater, and soil gas associated with the former Temco dry cleaning operations.

- Phase II investigation completed in 1996 by HRP Associates. It should be noted that the investigation report for this work completed by HRP Associates was not available, therefore conclusions discussed herein are from a summary of this work presented in an Investigation Work Plan prepared by Lawler, Matusky & Skelly Engineers LLP, in March 2004 (Lawler, Matusky & Skelly Engineers LLP, 2004).
- Remedial Investigation work completed by Environmental Business Consultants in 2006 and 2008 and summarized by Environmental Business Consultants in a Remedial Investigation Report dated June 2009 (Environmental Business Consultants, 2009).
- Remedial Investigation work completed by Parsons from 2012 to 2016 and presented within this report.

Soil gas appears to be a pathway of potential exposure to site contamination. Results from the chemical analysis of several soil vapor sub-slab and groundwater samples indicate the presence of PCE at concentrations exceeding the New York State guidance values for sub-slab air and groundwater quality SGVs. In particular, impacts have been observed at four properties (1, 2, 4 and 11) located near the site to the southeast as well as within the main Temco building. Movement of soil vapors is independent of groundwater flow. However, results at this site indicate similar direction for contaminant migration in soil vapor and groundwater. Active soil vapor mitigation systems have been installed by NYSDOH at properties 3 and 4. These two active soil vapor mitigation systems may beneficially influence sub-slab concentrations at adjacent residences where soil vapor mitigation systems have not been installed to date by NYSDOH due to lack of access.

Elevated soil gas concentrations of PCE and/or TCE were detected near where the former dry cleaning machine was located, in the northeast corner of the onsite building during prior site investigation work. Conversion of the abandoned Temco Building into self-storage units is being considered by the current property owner. Based on soil gas concentrations, plans for returning the Temco building to use and/or occupancy would require additional monitoring or a mitigation system to mitigate potential exposure risks for building users.

Surface soils and subsurface soils are potential exposure pathways at any site, however VOC and SVOC concentrations in site soils do not suggest significant impacts by former dry cleaning activities. Surface soil samples collected in 2012 showed SVOC concentrations below SCOs for unrestricted use, with the exception of one PAH in the sample from SS-04, located near the west side of the building as shown on Figure 7. In this sample, the concentration of indeno(1,2,3-c,d)pyrene in surface soil was less than 10 percent above the associated unrestricted SCO. Subsurface soil results from prior investigations show impacts along the northeast side of the former dry cleaning building, in close proximity to former dry cleaning operations. Subsurface soil results from samples collected during the RI did not show VOC impacts at the site. Thus, surface soils appear to be a very limited potential exposure pathway and sub surface soil is a potential pathway for personal conducting sub surface activities.

Groundwater collected from 1996 through 2016 show VOC concentrations exceeding Class GA groundwater standards during at least one monitoring event outside the existing building at the following wells MW-1 through 5, MW-8S, MW-8D, MW-9, MW-10S, MW_10D, MW-11, MW-13 through 17, and the following wells within the building MW-6 and MW-7. NYSDEC Class GA SGVs are protective of groundwater quality assuming

groundwater is being used as a drinking water source. The highest PCE concentration measured in groundwater collected as part of this remedial investigation was 350 ug/L, placing that sample in exceedance of the Class GA Standard for PCE of 5 ug/L. However, PCE concentrations detected in groundwater as part of this remedial investigation were lower than concentrations detected during previous investigations conducted in 1997 and 2008. Groundwater is not currently in use at the site or in the site vicinity for a potable water source and there are no known plans for future use of potable or commercial/industrial groundwater at the site. In addition, given the depth to groundwater is at least 23 feet bgs at and near the site, potential exposure to groundwater is not likely to occur during future construction or during future maintenance of any deep underground utilities. However unlikely, groundwater is a potential exposure pathway for residents and workers conducting excavation and subsurface work. Given this area is served by a public drinking water supply, groundwater is not an exposure pathway through the drinking water supply.

In summary, potential groundwater, soil vapor and soil exposure pathways exist. Residences within the vicinity of the Temco building may be impacted by PCE vapors. Workers conducting excavations and subsurface work may be exposed to contaminated groundwater, soils or vapors.

SECTION 5 - CONCLUSIONS

Based on the results of the Remedial Investigation activities documented in this report, the following are conclusions for the Former Temco Uniforms site.

- Surface soils at this site are not significantly impacted.
- Subsurface soils do not appear to be significantly impacted by former dry cleaning operations based on results from this investigation. Results from prior investigations showed impacts within and directly adjacent to the onsite building.
- Vapor mitigation systems installed by NYSDOH at two residences south of the site should be routinely checked. Up to three additional residences warrant future monitoring for soil vapor intrusion.
- Groundwater at the site is at least 25 feet bgs and is impacted with PCE. The highest PCE concentrations in groundwater were encountered near the northeast corner of the building, in close proximity to the suspected location of a former dry cleaning machine and wash trench. The direction of groundwater movement laterally at the site has been observed to fluctuate, which may be slowing lateral migration of PCE in groundwater. Natural dechlorination of PCE does not appear to be taking place in groundwater at the site. Local groundwater does not appear to be in use based on information obtained from local potable water suppliers.
- Based on the data collected for the RI, the PCE plume appears to be migrating south-southeast and is encroaching on the residential homes that border the site. Although the outer extent of this plume has not been bound, the lateral extent of the plume, for the purposes of evaluating Remedial Alternatives in a Feasibility Study, can be reasonably inferred.
- A former water supply well exists that was drilled into bedrock beneath the site and should eventually be properly sealed to minimize potential for short-circuit movement of site contaminants downward if the well is not to be used in the future.
- Pathways for human exposure to site impacts are limited given the site is fenced and not in use. Human exposure to any impacted soils and/or groundwater in close proximity to the northeast corner of the onsite building may be possible during intrusive activities (e.g., repair of underground utilities or structures, potential future construction), but is not likely. Human exposure pathway has been observed via soil gases.

SECTION 6 - REFERENCES

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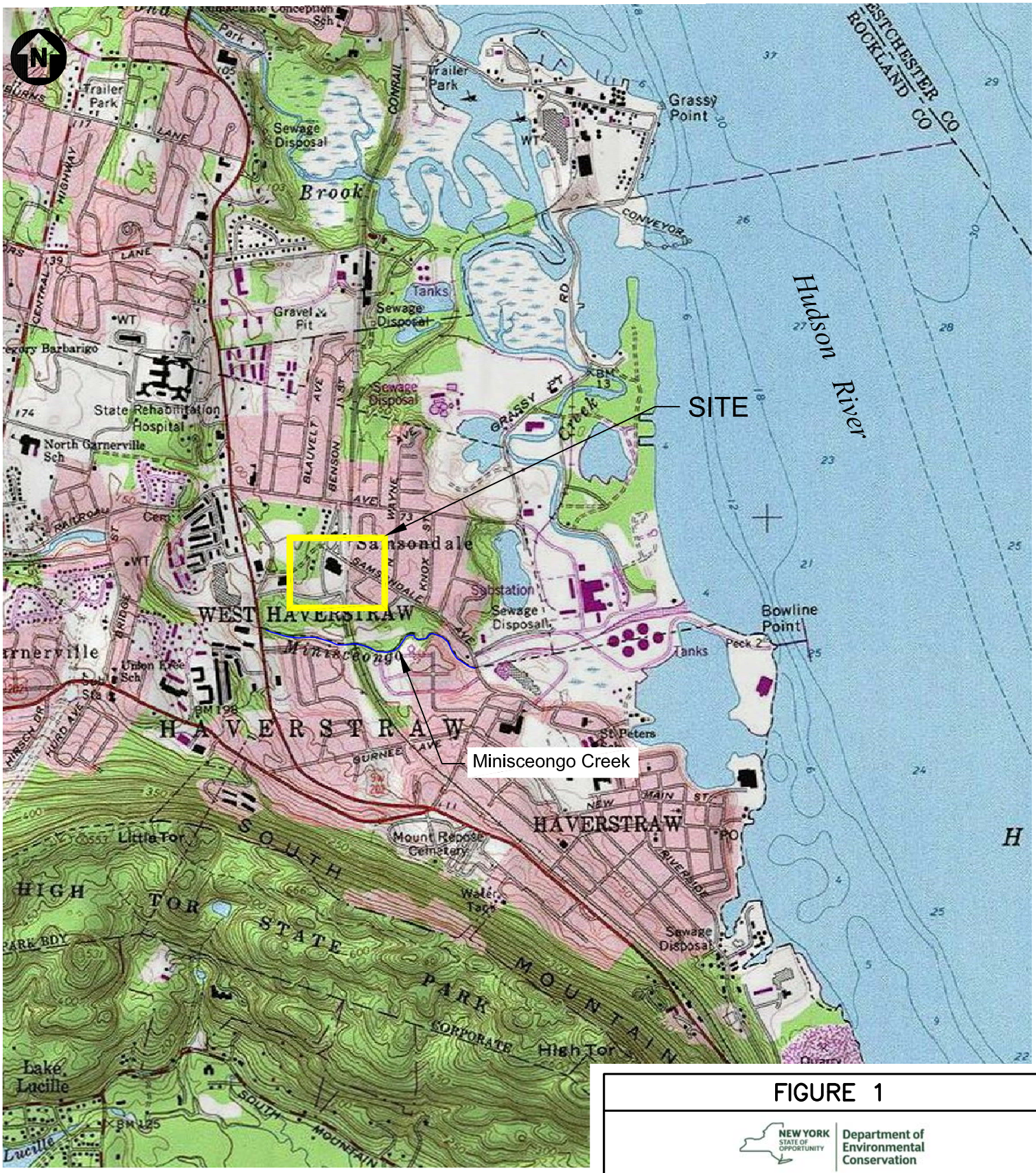
FIGURES



LEGEND:

APPROXIMATE SITE BOUNDARY

NOT TO SCALE

FIGURE 1

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

SITE LOCATION MAP

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD – GIS\FIGURES\SLM.DWG
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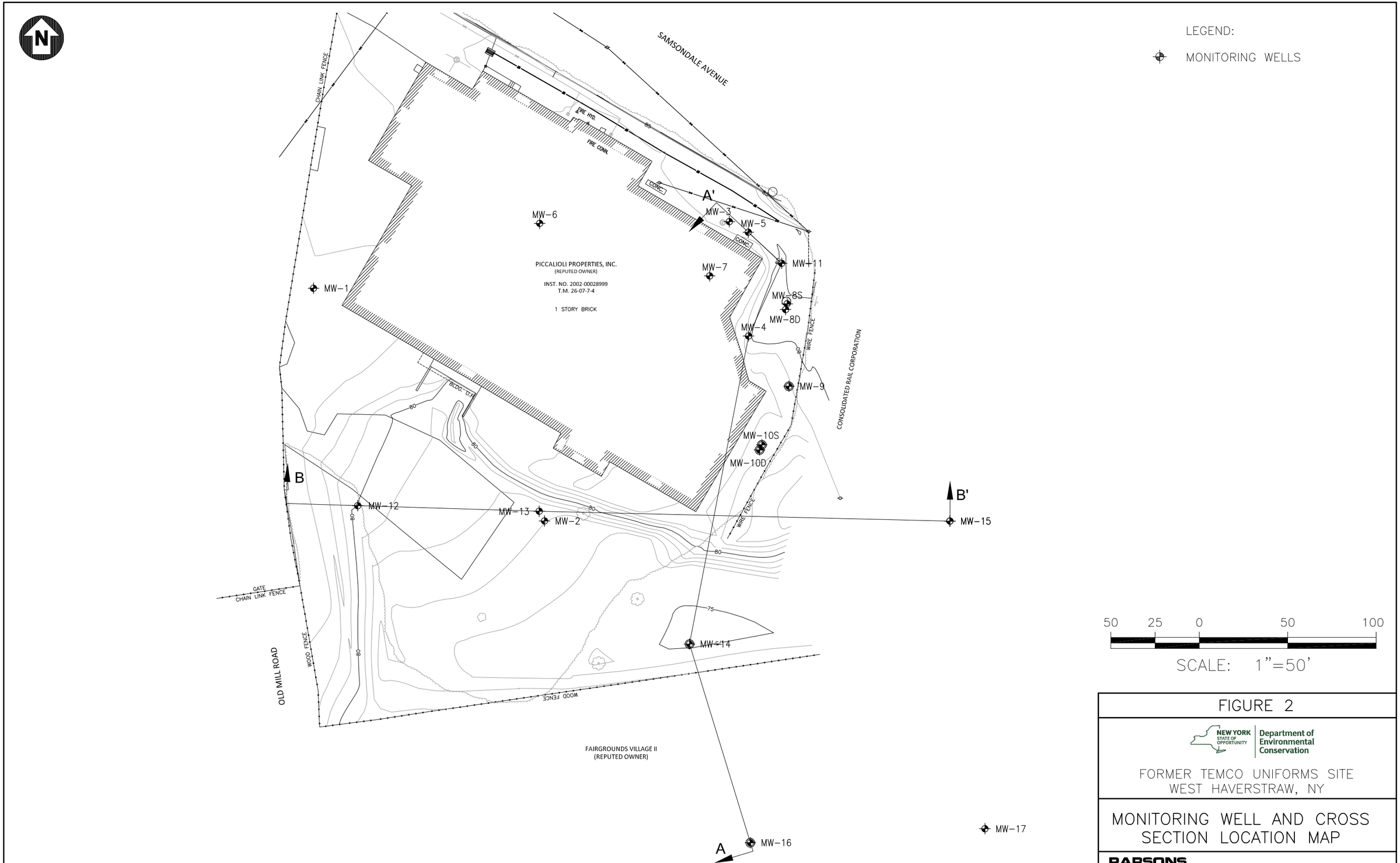

FIGURE 2

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

MONITORING WELL AND CROSS SECTION LOCATION MAP

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD - GIS\FIGURES\SECTION II\447275-SK012-GW CS.DWG
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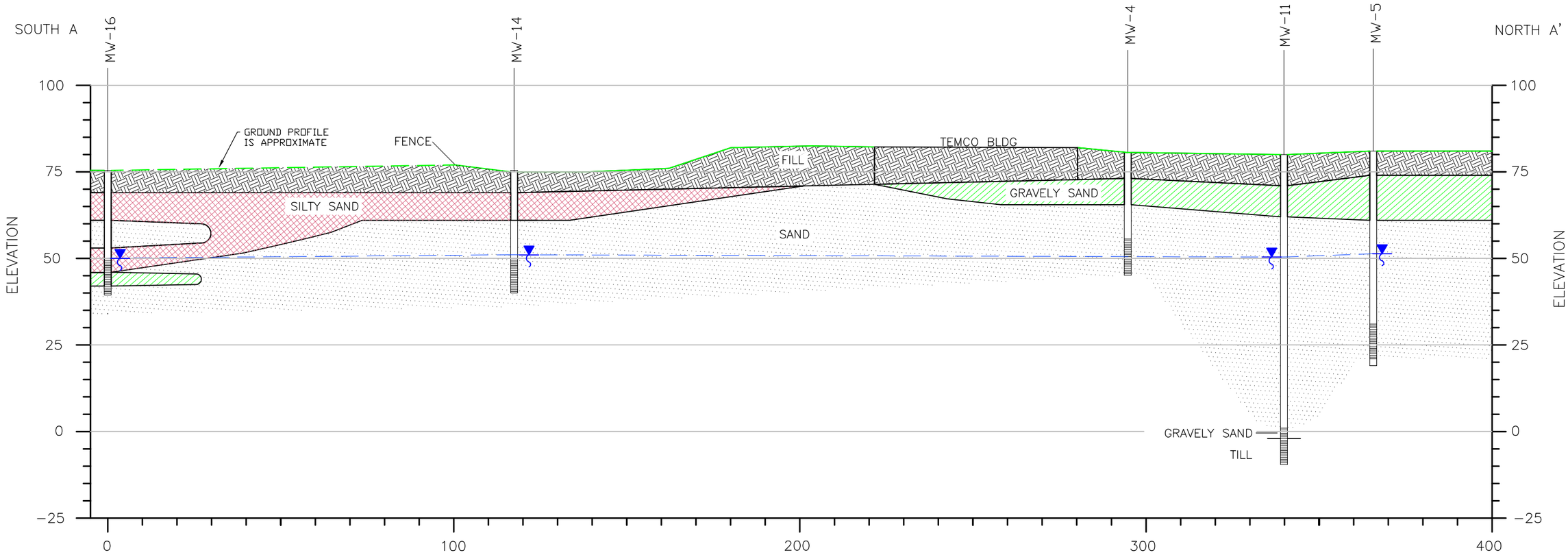

30 15 0 30 60

SCALE: 1"=30'

NOTES:

- MW−4 LOCATION AND TOC POSITION IS APPROXIMATE

LEGEND:

TOP OF WATER TABLE (8/29/16 & 8/31/16)

WELL SCREEN

FIGURE 3

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

CROSS SECTION A−A'

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315−451−9560

FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD − GIS\FIGURES\SECTION II\447275−SK012−GW CS.DWG
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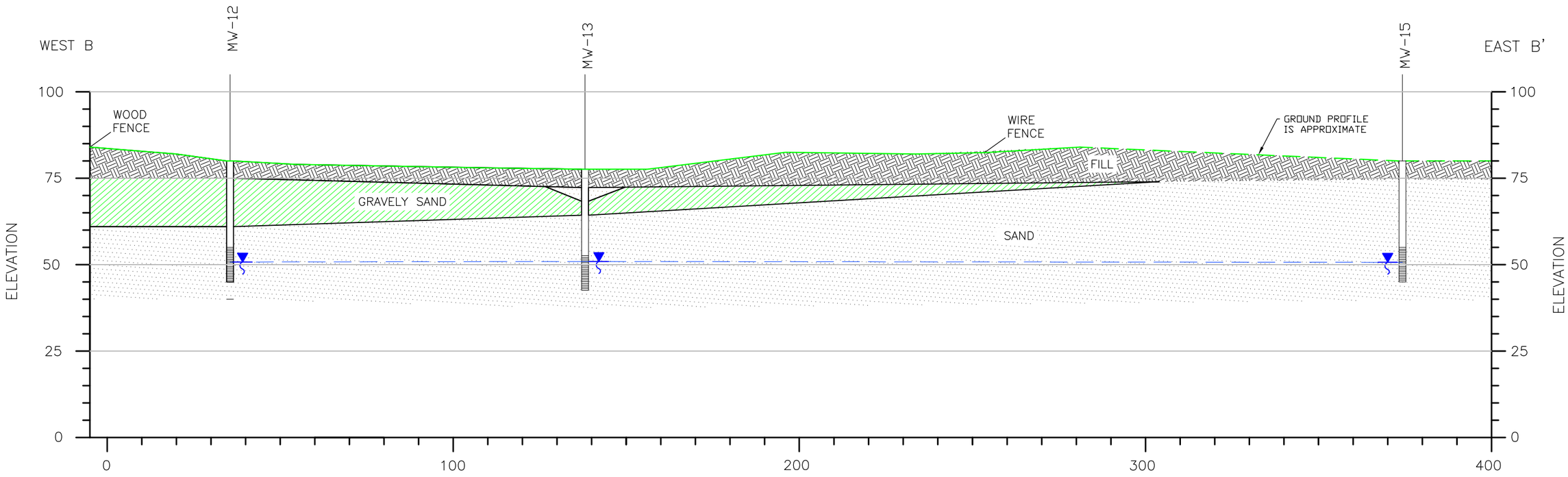

30 15 0 30 60

SCALE: 1"=30'

LEGEND:

TOP OF WATER TABLE (8/29/16 & 8/31/16)

WELL SCREEN

FIGURE 4

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

CROSS SECTION B–B'

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 • 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD – GIS\FIGURES\SECTION II\447275-SK012-GW CS.DWG
PLOT DATE: 1/18/2017 9:42 AM PLOTTED BY: NASSIMOS, JEFFREY

FORMER TEMCO UNIFORMS SITE

SAMSONDALE AVE

ZARRIELLO LANE

AMBIENT OUTDOOR AIR

AMBIENT OUTDOOR AIR	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.63
1,2-DICHLOROETHANE	ND
2,2,4-TRIMETHYLPENTANE	ND
BENZENE	0.49
CARBON TETRACHLORIDE	0.53
CHLOROFORM	ND
CHLOROMETHANE	1.2
DICHLORODIFLUOROMETHANE	2.4
ETHANOL	17
ETHYLBENZENE	ND
METHYL ETHYL KETONE (2-BUTANONE)	2.9
METHYLENE CHLORIDE	1.1
M-P-XYLENE	0.88
N-HEXANE	ND
O-XYLENE (1,2-DIMETHYLBENZENE)	ND
TETRACHLOROETHYLENE(PCE)	ND
TOLUENE	1.8
TRICHLOROETHYLENE (TCE)	ND
TRICHLOROFLUOROMETHANE	1.4

PROPERTY 4	AMBIENT INDOOR	AMBIENT SLAB
BENZENE	0.44	ND
CARBON TETRACHLORIDE	0.43	ND
CHLOROFORM	0.73	ND
CHLOROMETHANE	1.2	ND
DICHLORODIFLUOROMETHANE	2.2	ND
ETHANOL	170 J	83
METHYL ETHYL KETONE (2-BUTANONE)	1.6	ND
METHYLENE CHLORIDE	2.3	ND
TETRACHLOROETHYLENE(PCE)	22	2400
TOLUENE	1.8	ND
TRICHLOROETHYLENE (TCE)	0.37	34
TRICHLOROFLUOROMETHANE	2.4	ND

PROPERTY 2	AMBIENT INDOOR	AMBIENT SLAB
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.63	ND
BENZENE	0.69	ND
CARBON TETRACHLORIDE	0.66	ND
CHLOROFORM	1.8	ND
CHLOROMETHANE	1.3	ND
DICHLORODIFLUOROMETHANE	2.6	ND
ETHANOL	1700 J	ND
ETHYLBENZENE	0.88	ND
METHYL ETHYL KETONE (2-BUTANONE)	2.4	ND
METHYLENE CHLORIDE	1.3	ND
M-P-XYLENE	3	ND
O-XYLENE (1,2-DIMETHYLBENZENE)	0.85	ND
TETRACHLOROETHYLENE(PCE)	61	4600
TOLUENE	2.3	ND
TRICHLOROETHYLENE (TCE)	0.79	54
TRICHLOROFLUOROMETHANE	2.9	ND

PROPERTY 3	AMBIENT INDOOR	AMBIENT SLAB
1,2-DICHLOROETHANE	0.64	ND
BENZENE	0.44	ND
CARBON TETRACHLORIDE	0.48	ND
CHLOROFORM	0.7	ND
CHLOROMETHANE	1.2	ND
DICHLORODIFLUOROMETHANE	2.3	2.2
ETHANOL	180 J	71
ETHYLBENZENE	0.56	ND
METHYL ETHYL KETONE (2-BUTANONE)	2	2.1
METHYLENE CHLORIDE	1.9	ND
M-P-XYLENE	1.8	ND
N-HEXANE	0.79	ND
O-XYLENE (1,2-DIMETHYLBENZENE)	0.58	ND
TETRACHLOROETHYLENE(PCE)	1.2	77
TOLUENE	3.4	1.1
TRICHLOROFLUOROMETHANE	1.8	1.8

PROPERTY 1	AMBIENT INDOOR	AMBIENT SLAB
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.67	ND
1,2-DICHLOROETHANE	2.1	ND
2,2,4-TRIMETHYLPENTANE	1.6	ND
BENZENE	0.54	ND
CARBON TETRACHLORIDE	0.61	ND
CHLOROFORM	1.4	ND
CHLOROMETHANE	1.6	ND
DICHLORODIFLUOROMETHANE	2.5	ND
ETHANOL	610 J	ND
METHYL ETHYL KETONE (2-BUTANONE)	3	ND
METHYLENE CHLORIDE	1.9	ND
M-P-XYLENE	0.49	ND
TETRACHLOROETHYLENE(PCE)	8.8	5200
TOLUENE	5.4	ND
TRICHLOROETHYLENE (TCE)	0.22	50
TRICHLOROFLUOROMETHANE	2.2	ND

NOTES:
1. RESULTS REPORTED IN MG/M³
2. ONLY DETECTED COMPOUNDS ARE SHOWN.
3. RESULTS ARE BELOW NYSDOH GUIDANCE FOR EVALUATING SOIL VAPOR IN THE STATE OF NEW YORK (OCTOBER, 2006).

LEGEND:

APPROXIMATE SITE BOUNDARY

ND NOT DETECTED

J LABORATORY ESTIMATED VALUE

60 30 0 60 120

SCALE: 1"=60'

FIGURE 5

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

SOIL VAPOR INTRUSION DATA
APRIL 2012

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD – GIS\FIGURES\SAMPLE RESULTS\447275-SAMPS-SK001.DWG
PLOT DATE: 1/13/2017 9:13 AM PLOTTED BY: NASSIMOS, JEFFREY

FORMER TEMCO UNIFORMS SITE

SAMSONDALE AVE

BROWNSELL DR

ZARRIELLO LANE

AMBIENT OUTDOOR AIR

AMBIENT OUTDOOR AIR	
1,2-DICHLOROETHANE	ND
2,2,4-TRIMETHYLPENTANE	ND
BENZENE	0.52
BROMODICHLOROMETHANE	ND
CARBON TETRACHLORIDE	0.53
CHLOROFORM	ND
CHLOROMETHANE	1.4
DICHLORODIFLUOROMETHANE	1
ETHANOL	9.8 J
ETHYLBENZENE	ND
METHYL ETHYL KETONE (2-BUTANONE)	ND
METHYLENE CHLORIDE	ND
N-HEXANE	ND
TETRACHLOROETHYLENE(PCE)	ND
TOLUENE	1.2
TRICHLOROETHYLENE (TCE)	ND
TRICHLOROFLUOROMETHANE	1.2
M,P-XYLENES	0.86
O-XYLENE (1,2-DIMETHYLBENZENE)	ND

PROPERTY 3	AMBIENT INDOOR	AMBIENT SLAB
BENZENE	0.55	ND
CARBON TETRACHLORIDE	0.6	ND
CHLOROFORM	0.71	ND
CHLOROMETHANE	1.6	ND
DICHLORODIFLUOROMETHANE	1.3	1.7
ETHANOL	260 J	7.4 J
METHYL ETHYL KETONE (2-BUTANONE)	1.2	ND
METHYLENE CHLORIDE	4.8	7.2
N-HEXANE	1.2	ND
TETRACHLOROETHYLENE(PCE)	0.61	52
TOLUENE	2.1	2.2
TRICHLOROFLUOROMETHANE	1.9	1.8
M,P-XYLENES	1.2	2.8
O-XYLENE (1,2-DIMETHYLBENZENE)	0.43	2.9

PROPERTY 5	AMBIENT INDOOR	AMBIENT SLAB
1,2-DICHLOROETHANE	0.77	ND
BENZENE	0.6	ND
CARBON TETRACHLORIDE	0.51	ND
CHLOROMETHANE	1.4	ND
DICHLORODIFLUOROMETHANE	1.1	1.8
ETHANOL	330 J	160 J
METHYL ETHYL KETONE (2-BUTANONE)	2.1	2.8
METHYLENE CHLORIDE	1.2	ND
TETRACHLOROETHYLENE(PCE)	ND	51
TOLUENE	2.4	0.97
TRICHLOROFLUOROMETHANE	1.5	1.4
M,P-XYLENES	0.8	0.71

PROPERTY 6	AMBIENT INDOOR	AMBIENT SLAB
2,2,4-TRIMETHYLPENTANE	1.1	ND
BENZENE	0.6	ND
BROMODICHLOROMETHANE	0.89	ND
CARBON TETRACHLORIDE	0.55	ND
CHLOROFORM	4	ND
CHLOROMETHANE	2.5	ND
DICHLORODIFLUOROMETHANE	1.3	ND
ETHANOL	720 J	41 J
ETHYLBENZENE	1.6	ND
METHYL ETHYL KETONE (2-BUTANONE)	3.4	ND
METHYLENE CHLORIDE	2.3	ND
TETRACHLOROETHYLENE(PCE)	1.7	1500
TOLUENE	3.5	ND
TRICHLOROETHYLENE (TCE)	ND	28
TRICHLOROFLUOROMETHANE	1.7	ND
M,P-XYLENES	5.9	ND
O-XYLENE (1,2-DIMETHYLBENZENE)	1.6	ND

NOTES:
1. RESULTS REPORTED IN MG/M^3
2. ONLY DETECTED COMPOUNDS ARE SHOWN.
3. RESULTS ARE BELOW NYSDOH GUIDANCE FOR EVALUATING SOIL VAPOR IN THE STATE OF NEW YORK (OCTOBER, 2006).

LEGEND:

APPROXIMATE SITE BOUNDARY

ND NOT DETECTED

J LABORATORY ESTIMATED VALUE

60 30 0 60 120

SCALE: 1"=60'

FIGURE 6

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

SOIL VAPOR INTRUSION DATA
MARCH 2013

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD - GIS\FIGURES\SAMPLE RESULTS\447275-SAMPS-SK001.DWG
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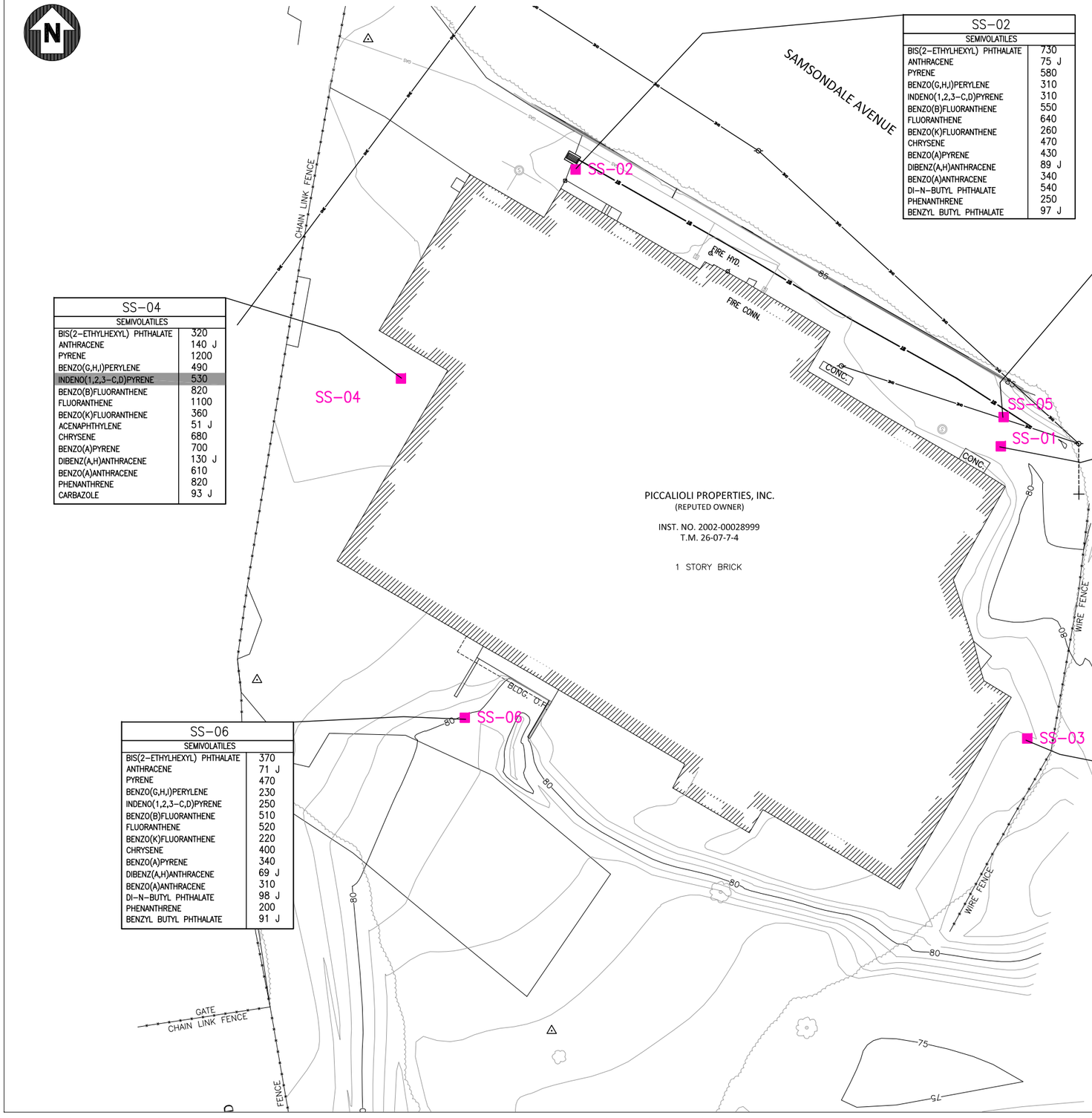

SS-02	
SEMIVOLATILES	
BIS(2-ETHYLHEXYL) PHTHALATE	730
ANTHRACENE	75 J
PYRENE	580
BENZO(G,H,I)PERYLENE	310
INDENO(1,2,3-C,D)PYRENE	310
BENZO(B)FLUORANTHENE	550
FLUORANTHENE	640
BENZO(K)FLUORANTHENE	260
CHRYSENE	470
BENZO(A)PYRENE	430
DIBENZ(A,H)ANTHRACENE	89 J
BENZO(A)ANTHRACENE	340
DI-N-BUTYL PHTHALATE	540
PHENANTHRENE	250
BENZYL BUTYL PHTHALATE	97 J

SS-05	
SEMIVOLATILES	
PYRENE	590 J
BENZO(G,H,I)PERYLENE	430
INDENO(1,2,3-C,D)PYRENE	400
BENZO(B)FLUORANTHENE	500
FLUORANTHENE	420
BENZO(K)FLUORANTHENE	210
CHRYSENE	360
BENZO(A)PYRENE	410
BENZO(A)ANTHRACENE	290
PHENANTHRENE	130 J
BENZYL BUTYL PHTHALATE	370

SS-04	
SEMIVOLATILES	
BIS(2-ETHYLHEXYL) PHTHALATE	320
ANTHRACENE	140 J
PYRENE	1200
BENZO(G,H,I)PERYLENE	490
INDENO(1,2,3-C,D)PYRENE	530
BENZO(B)FLUORANTHENE	820
FLUORANTHENE	1100
BENZO(K)FLUORANTHENE	360
ACENAPHTHYLENE	51 J
CHRYSENE	680
BENZO(A)PYRENE	700
DIBENZ(A,H)ANTHRACENE	130 J
BENZO(A)ANTHRACENE	610
PHENANTHRENE	820
CARBAZOLE	93 J

SS-01		
SEMIVOLATILES		DUP
BIS(2-ETHYLHEXYL) PHTHALATE	310	230
PYRENE	200	160 J
BENZO(G,H,I)PERYLENE	210	120 J
INDENO(1,2,3-C,D)PYRENE	200	120 J
BENZO(B)FLUORANTHENE	210	130 J
FLUORANTHENE	120 J	140 J
BENZO(K)FLUORANTHENE	89 J	70 J
CHRYSENE	140 J	130 J
BENZO(A)PYRENE	160 J	120 J
DIBENZ(A,H)ANTHRACENE	200 U	35 J
BENZO(A)ANTHRACENE	91 J	84 J
PHENANTHRENE	200 U	64 J
BENZYL BUTYL PHTHALATE	200 U	110 J

SS-06	
SEMIVOLATILES	
BIS(2-ETHYLHEXYL) PHTHALATE	370
ANTHRACENE	71 J
PYRENE	470
BENZO(G,H,I)PERYLENE	230
INDENO(1,2,3-C,D)PYRENE	250
BENZO(B)FLUORANTHENE	510
FLUORANTHENE	520
BENZO(K)FLUORANTHENE	220
CHRYSENE	400
BENZO(A)PYRENE	340
DIBENZ(A,H)ANTHRACENE	69 J
BENZO(A)ANTHRACENE	310
DI-N-BUTYL PHTHALATE	98 J
PHENANTHRENE	200
BENZYL BUTYL PHTHALATE	91 J

SS-03	
SEMIVOLATILES	
BIS(2-ETHYLHEXYL) PHTHALATE	200 J
PYRENE	400
BENZO(G,H,I)PERYLENE	170 J
INDENO(1,2,3-C,D)PYRENE	160 J
BENZO(B)FLUORANTHENE	230
FLUORANTHENE	300
BENZO(K)FLUORANTHENE	84 J
CHRYSENE	210
BENZO(A)PYRENE	170 J
BENZO(A)ANTHRACENE	160 J
PHENANTHRENE	160 J

NOTES:
1. RESULTS REPORTED IN ug/kg.
2. RESULTS ARE ALL BELOW 6 NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES EXCEPT 530 ug/kg IDENO(1,2,3-cd)PYRENE AT SS-04 (HIGHLIGHTED).
3. ONLY DETECTED COMPOUNDS ARE SHOWN.
4. NO CHLORINATED COMPOUNDS DETECTED.

40 20 0 40 80

SCALE: 1"=40'

FIGURE - 7

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

SURFACE SOIL ANALYTICAL DATA SEPTEMBER 25, 2012

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD - GIS\FIGURES\SECTION II\447275-SK004.DWG
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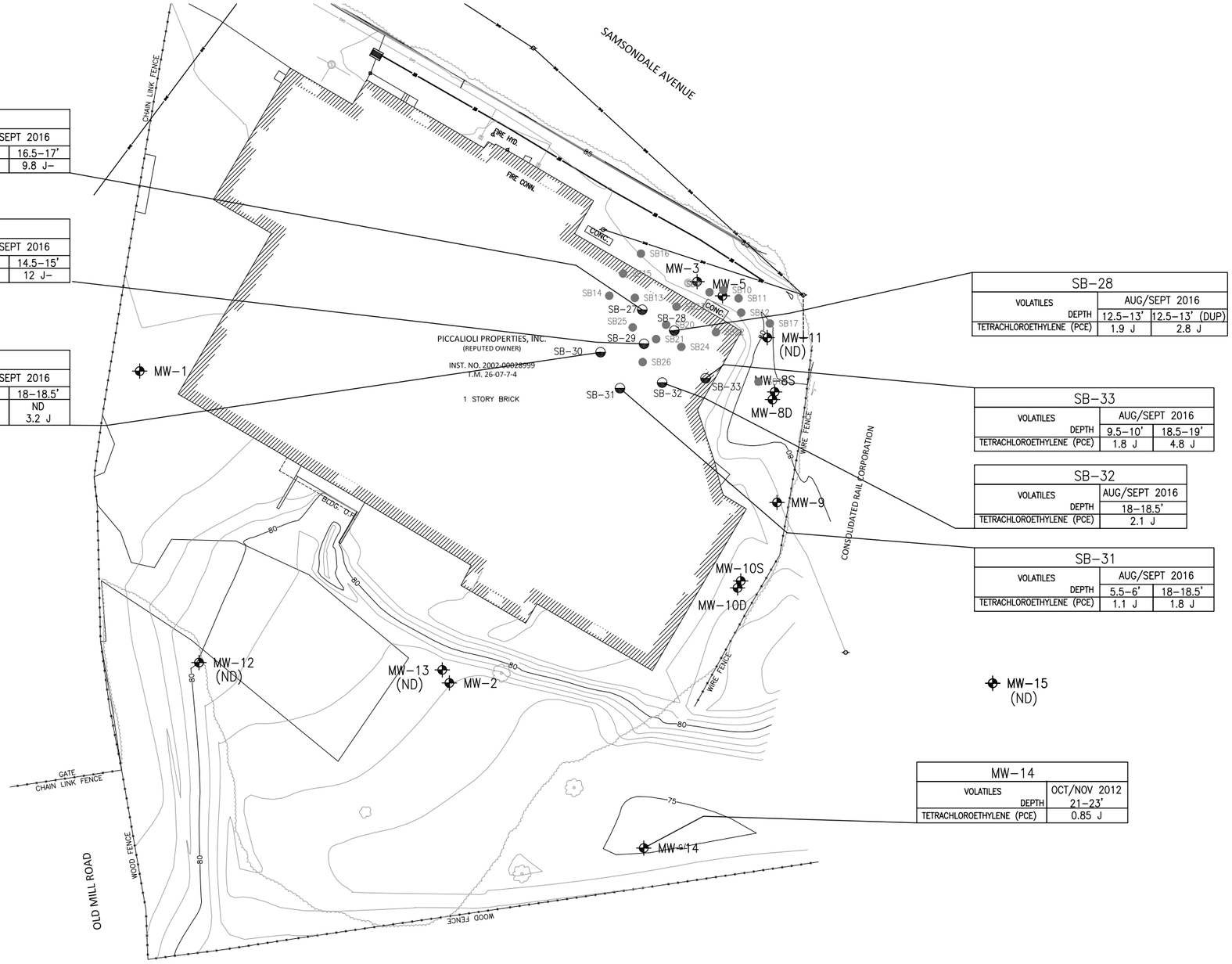

SB-27		
VOLATILES / DEPTH	AUG/SEPT 2016	
	8.5–9'	16.5–17'
TETRACHLOROETHYLENE (PCE)	3.5 J	9.8 J–

SB-29		
VOLATILES / DEPTH	AUG/SEPT 2016	
	8.5–9'	14.5–15'
TETRACHLOROETHYLENE (PCE)	10 J–	12 J–

SB-30		
VOLATILES / DEPTH	AUG/SEPT 2016	
	5.5–6'	18–18.5'
CARBON DISULFIDE	4.0 J	ND
TETRACHLOROETHYLENE (PCE)	2.2 J	3.2 J

SB-28		
VOLATILES / DEPTH	AUG/SEPT 2016	
	12.5–13'	12.5–13' (DUP)
TETRACHLOROETHYLENE (PCE)	1.9 J	2.8 J

SB-33		
VOLATILES / DEPTH	AUG/SEPT 2016	
	9.5–10'	18.5–19'
TETRACHLOROETHYLENE (PCE)	1.8 J	4.8 J

SB-32	
VOLATILES / DEPTH	AUG/SEPT 2016
	18–18.5'
TETRACHLOROETHYLENE (PCE)	2.1 J

SB-31		
VOLATILES / DEPTH	AUG/SEPT 2016	
	5.5–6'	18–18.5'
TETRACHLOROETHYLENE (PCE)	1.1 J	1.8 J

MW-14	
VOLATILES / DEPTH	OCT/NOV 2012
	21–23'
TETRACHLOROETHYLENE (PCE)	0.85 J

MW-16		
VOLATILES / DEPTH	DEC 2015	
	28–30'	28–30'(DUP)
TETRACHLOROETHYLENE (PCE)	9.1	9.1
TOLUENE	ND	0.50 J

LEGEND:

- EXISTING SOIL BORINGS
- NEW SOIL BORINGS
- MONITORING WELLS
- SHADED VALUES EXCEED STANDARDS (SEE NOTE 2)

J – ESTIMATED VALUE

J– – ESTIMATED VALUE, BIASED LOW

ND – NOT DETECTED

NOTES:

1. RESULTS REPORTED IN ug/kg.
2. RESULTS BASED ON 6 NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES (2006)
3. ONLY DETECTED COMPOUNDS ARE SHOWN.

40 20 0 40 80

SCALE: 1"=40'

FIGURE - 8

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

CUMULATIVE SUBSURFACE SOIL ANALYTICAL DATA

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD – GIS\FIGURES\SECTION II\447275-SK012-GW.DWG
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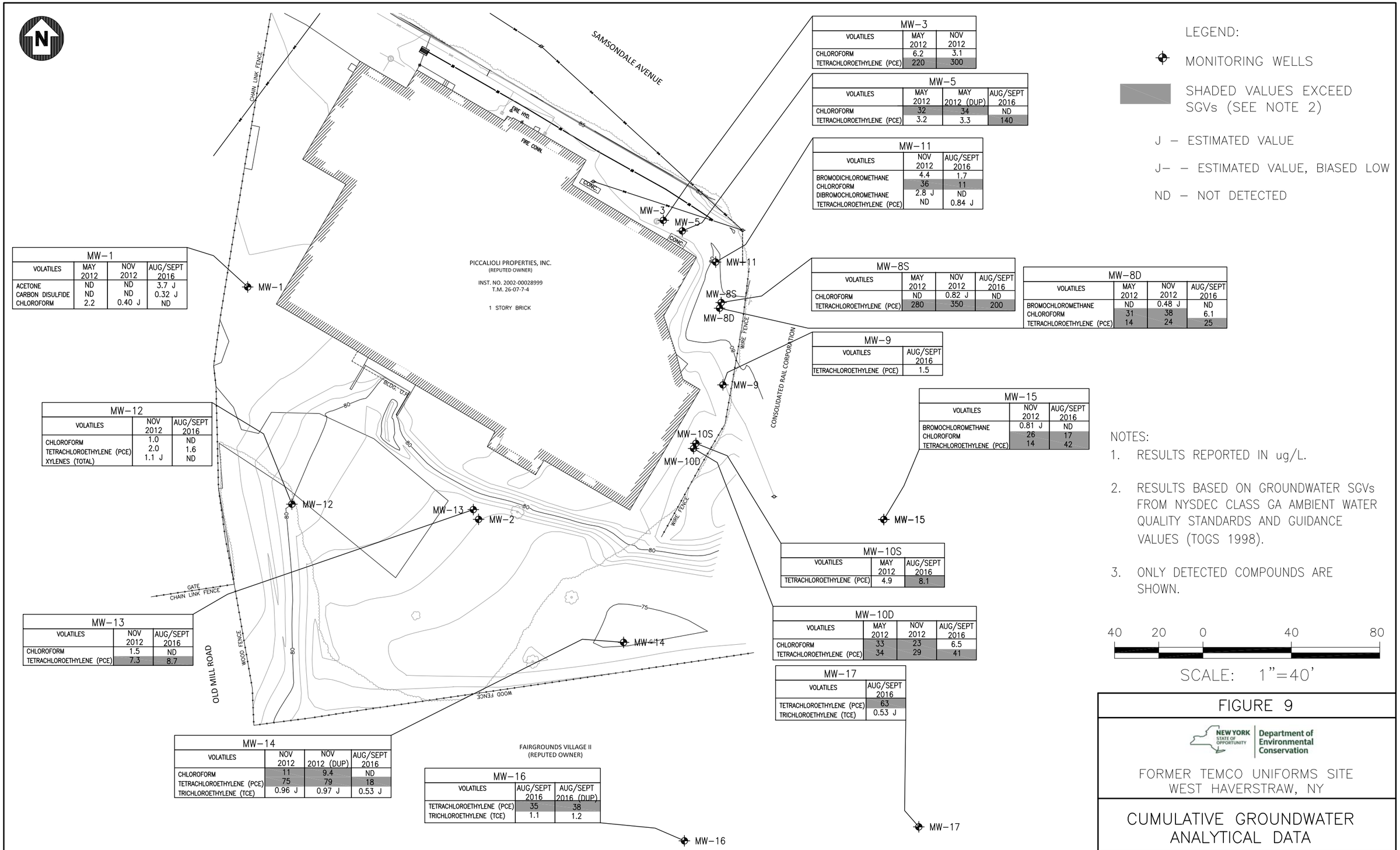

MW-1			
VOLATILES	MAY 2012	NOV 2012	AUG/SEPT 2016
ACETONE	ND	ND	3.7 J
CARBON DISULFIDE	ND	ND	0.32 J
CHLOROFORM	2.2	0.40 J	ND

MW-3		
VOLATILES	MAY 2012	NOV 2012
CHLOROFORM	6.2	3.1
TETRACHLOROETHYLENE (PCE)	220	300

MW-5			
VOLATILES	MAY 2012	MAY 2012 (DUP)	AUG/SEPT 2016
CHLOROFORM	32	34	ND
TETRACHLOROETHYLENE (PCE)	3.2	3.3	140

MW-11		
VOLATILES	NOV 2012	AUG/SEPT 2016
BROMODICHLOROMETHANE	4.4	1.7
CHLOROFORM	36	11
DIBROMOCHLOROMETHANE	2.8 J	ND
TETRACHLOROETHYLENE (PCE)	ND	0.84 J

MW-8S			
VOLATILES	MAY 2012	NOV 2012	AUG/SEPT 2016
CHLOROFORM	ND	0.82 J	ND
TETRACHLOROETHYLENE (PCE)	280	350	200

MW-8D			
VOLATILES	MAY 2012	NOV 2012	AUG/SEPT 2016
BROMOCHLOROMETHANE	ND	0.48 J	ND
CHLOROFORM	31	38	6.1
TETRACHLOROETHYLENE (PCE)	14	24	25

MW-9	
VOLATILES	AUG/SEPT 2016
TETRACHLOROETHYLENE (PCE)	1.5

MW-15		
VOLATILES	NOV 2012	AUG/SEPT 2016
BROMOCHLOROMETHANE	0.81 J	ND
CHLOROFORM	26	17
TETRACHLOROETHYLENE (PCE)	14	42

MW-12		
VOLATILES	NOV 2012	AUG/SEPT 2016
CHLOROFORM	1.0	ND
TETRACHLOROETHYLENE (PCE)	2.0	1.6
XYLENES (TOTAL)	1.1 J	ND

MW-10S		
VOLATILES	MAY 2012	AUG/SEPT 2016
TETRACHLOROETHYLENE (PCE)	4.9	8.1

MW-10D			
VOLATILES	MAY 2012	NOV 2012	AUG/SEPT 2016
CHLOROFORM	33	23	6.5
TETRACHLOROETHYLENE (PCE)	34	29	41

MW-13		
VOLATILES	NOV 2012	AUG/SEPT 2016
CHLOROFORM	1.5	ND
TETRACHLOROETHYLENE (PCE)	7.3	8.7

MW-17	
VOLATILES	AUG/SEPT 2016
TETRACHLOROETHYLENE (PCE)	63
TRICHLOROETHYLENE (TCE)	0.53 J

MW-14			
VOLATILES	NOV 2012	NOV 2012 (DUP)	AUG/SEPT 2016
CHLOROFORM	11	9.4	ND
TETRACHLOROETHYLENE (PCE)	75	79	18
TRICHLOROETHYLENE (TCE)	0.96 J	0.97 J	0.53 J

MW-16		
VOLATILES	AUG/SEPT 2016	AUG/SEPT 2016 (DUP)
TETRACHLOROETHYLENE (PCE)	35	38
TRICHLOROETHYLENE (TCE)	1.1	1.2

LEGEND:

- MONITORING WELLS
- SHADED VALUES EXCEED SGVs (SEE NOTE 2)
- J – ESTIMATED VALUE
- J– – ESTIMATED VALUE, BIASED LOW
- ND – NOT DETECTED

NOTES:

1. RESULTS REPORTED IN ug/L.
2. RESULTS BASED ON GROUNDWATER SGVs FROM NYSDEC CLASS GA AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES (TOGS 1998).
3. ONLY DETECTED COMPOUNDS ARE SHOWN.

40 20 0 40 80

SCALE: 1"=40'

FIGURE 9

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

CUMULATIVE GROUNDWATER ANALYTICAL DATA

PARSONS
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FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD – GIS\FIGURES\SECTION II\447275-SK012-GW.DWG
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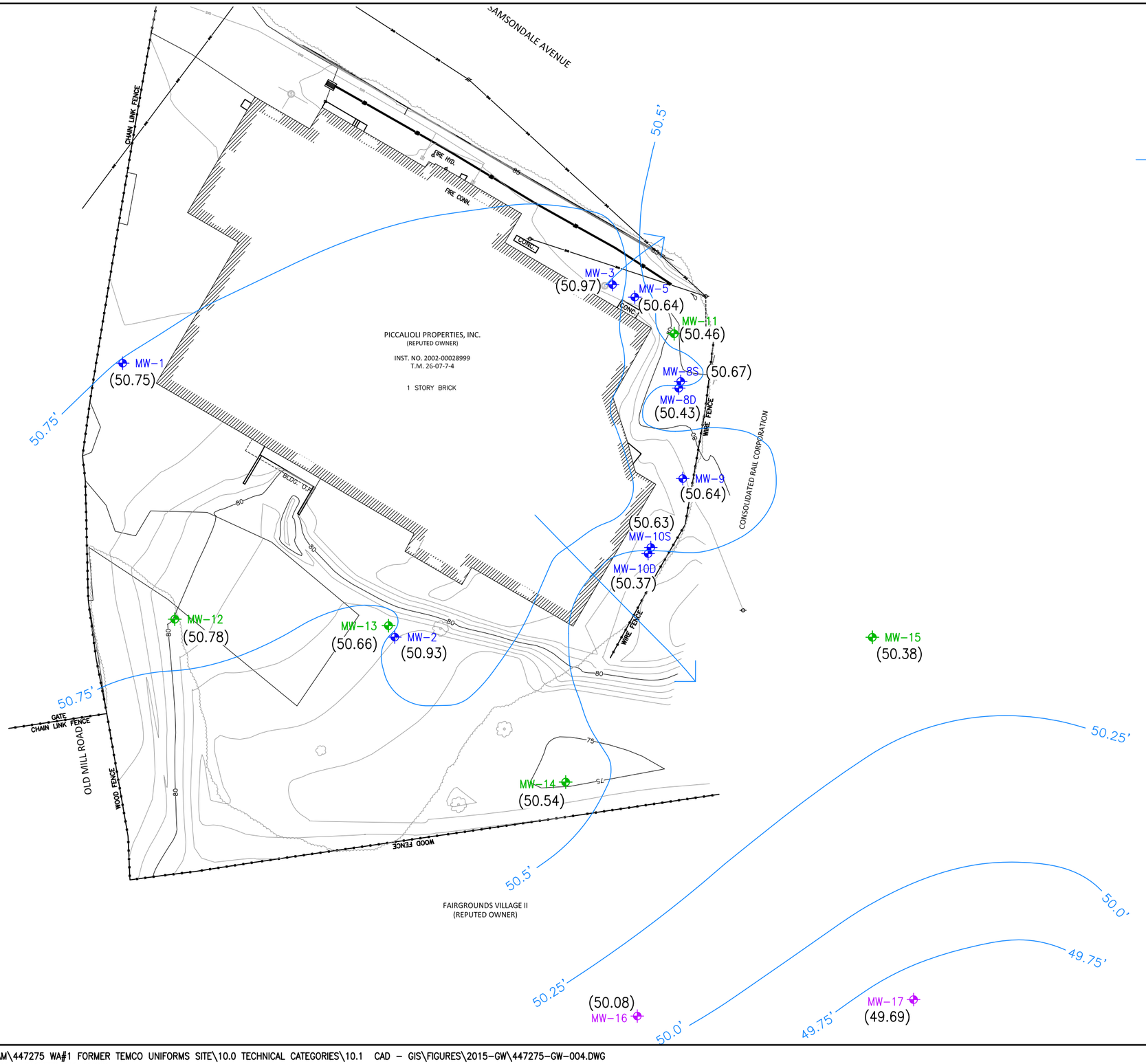

LEGEND:

- EXISTING MONITORING WELL
- MONITORING WELL INSTALLED IN 2012
- MONITORING WELL INSTALLED IN 2015
- GROUNDWATER CONTOUR
- (49.69) GROUNDWATER ELEVATION

50 25 0 50 100

SCALE: 1"=50'

FIGURE 10

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

FORMER TEMCO UNIFORMS SITE
WEST HAVERSTRAW, NY

GROUNDWATER CONTOURS
AUGUST 2016

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 • 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447275 WA#1 FORMER TEMCO UNIFORMS SITE\10.0 TECHNICAL CATEGORIES\10.1 CAD – GIS\FIGURES\2015-GW\447275-GW-004.DWG
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TABLES

TABLE 1A
VALIDATED SOIL VAPOR ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: APRIL 2012

Former Temco Uniforms Site Remedial Investigation Validated Air Analytical Data Detected Compound Summary		Location ID: Sample ID: Matrix: SDG: Lab Sample Id: Sampled: Validated:	OUTDOOR AIR AA-041812 AIR H2D240442 H2D240442005 4/19/2012 5/29/2012	PROP1 IA-01-041812 INDOOR AIR H2D240442 H2D240442002 4/19/2012 5/29/2012	PROP1 SS-01-041812 SURFSLAB AIR H2D240442 H2D240442001 4/19/2012 5/29/2012	PROP2 IA-02-041812 INDOOR AIR H2D240442 H2D240442004 4/19/2012 5/29/2012	PROP2 SS-02-041812 SURFSLAB AIR H2D240442 H2D240442003 4/19/2012 5/29/2012	PROP3 IA-03-041812 INDOOR AIR H2D240442 H2D240442007 4/19/2012 5/29/2012	PROP3 SS-03-041812 SURFSLAB AIR H2D240442 H2D240442006 4/19/2012 5/29/2012	PROP4 IA-04-041812 INDOOR AIR H2D240442 H2D240442009 4/19/2012 5/29/2012	PROP4 SS-04-041812 SURFSLAB AIR H2D240442 H2D240442008 4/19/2012 5/29/2012
CAS NO.	COMPOUND	UNITS:									
	VOLATILES - Method TO15										
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	0.63	0.67	120 U	0.63	79 U	0.61 U	1.2 U	0.61 U	28 U
107-06-2	1,2-DICHLOROETHANE	ug/m3	0.32 U	2.1	61 U	0.32 U	42 U	0.64	0.65 U	0.32 U	15 U
540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	0.93 U	1.6	180 U	0.93 U	120 U	0.93 U	1.9 U	0.93 U	42 U
71-43-2	BENZENE	ug/m3	0.49	0.54	48 U	0.69	33 U	0.44	0.51 U	0.44	12 U
56-23-5	CARBON TETRACHLORIDE	ug/m3	0.53	0.61	47 U	0.66	33 U	0.48	0.5 U	0.43	11 U
67-66-3	CHLOROFORM	ug/m3	0.39 U	1.4	74 U	1.8	51 U	0.7	0.78 U	0.73	18 U
74-87-3	CHLOROMETHANE	ug/m3	1.2	1.6	78 U	1.3	53 U	1.2	0.83 U	1.2	19 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	2.4	2.5	75 U	2.6	51 U	2.3	2.2	2.2	18 U
64-17-5	ETHANOL	ug/m3	17	610 J	280 U	1700 J	200 U	180 J	71	170 J	83
100-41-4	ETHYLBENZENE	ug/m3	0.35 U	0.35 U	66 U	0.88	45 U	0.56	0.69 U	0.35 U	16 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	2.9	3	180 U	2.4	120 U	2	2.1	1.6	43 U
75-09-2	METHYLENE CHLORIDE	ug/m3	1.1	1.9	130 U	1.3	90 U	1.9	1.4 U	2.3	32 U
136777-61-2	M-P-XYLENE	ug/m3	0.88	0.49	66 U	3	45 U	1.8	0.69 U	0.35 U	16 U
110-54-3	N-HEXANE	ug/m3	0.7 U	0.7 U	130 U	0.7 U	91 U	0.79	1.4 U	0.7 U	32 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	0.35 U	0.35 U	66 U	0.85	45 U	0.58	0.69 U	0.35 U	16 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	0.54 U	8.8	5200	61	4600	1.2	77	22	2400
108-88-3	TOLUENE	ug/m3	1.8	5.4	57 U	2.3	39 U	3.4	1.1	1.8	14 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	0.21 U	0.22	50	0.79	54	0.21 U	0.43 U	0.37	34
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.4	2.2	85 U	2.9	58 U	1.8	1.8	2.4	20 U

U - Not detected
J - Laboratory estimated value

TABLE 1B
VALIDATED SOIL VAPOR ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: MARCH 2013

Former Temco Uniforms Site Remedial Investigation Validated Soil Vapor Intrusion Analytical Data Detected Compound Summary		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	67 ZARRIELLO LANE IA-03-032613 H3D010404001 TALKNX H3D010404 INDOOR AIR 3/27/13 11:28 4/21/2013	67 ZARRIELLO LANE SS-03-032613 H3D010404002 TALKNX H3D010404 SURFSLAB AIR 3/27/13 11:28 4/21/2013	65 ZARRIELLO LANE IA-10-032613 H3D010404006 TALKNX H3D010404 INDOOR AIR 3/27/13 9:56 4/21/2013	65 ZARRIELLO LANE SS-10-032613 H3D010404007 TALKNX H3D010404 SURFSLAB AIR 3/27/13 9:56 4/21/2013	69 ZARRIELLO LANE IA-11-032613 H3D010404003 TALKNX H3D010404 INDOOR AIR 3/27/13 10:45 4/21/2013	69 ZARRIELLO LANE SS-11-032613 H3D010404004 TALKNX H3D010404 SURFSLAB AIR 3/27/13 10:45 4/21/2013	AMBIENT OUTDOOR AA-11-032613 H3D010404005 TALKNX H3D010404 OUTDOOR AIR 3/27/13 11:00 4/21/2013
CAS NO.	COMPOUND	UNITS:							
	VOLATILES								
107-06-2	1,2-DICHLOROETHANE	ug/m3	ND	ND	0.77	ND	ND	ND	ND
540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	ND	ND	ND	ND	1.1	ND	ND
71-43-2	BENZENE	ug/m3	0.55	ND	0.6	ND	0.6	ND	0.52
75-27-4	BROMODICHLOROMETHANE	ug/m3	ND	ND	ND	ND	0.89	ND	ND
56-23-5	CARBON TETRACHLORIDE	ug/m3	0.6	ND	0.51	ND	0.55	ND	0.53
67-66-3	CHLOROFORM	ug/m3	0.71	ND	ND	ND	4	ND	ND
74-87-3	CHLOROMETHANE	ug/m3	1.6	ND	1.4	ND	2.5	ND	1.4
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	1.3	1.7	1.1	1.8	1.3	ND	1
64-17-5	ETHANOL	ug/m3	260 J	7.4 J	330 J	160 J	720 J	41 J	9.8 J
100-41-4	ETHYLBENZENE	ug/m3	ND	ND	ND	ND	1.6	ND	ND
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	1.2	ND	2.1	2.8	3.4	ND	ND
75-09-2	METHYLENE CHLORIDE	ug/m3	4.8	7.2	1.2	ND	2.3	ND	ND
110-54-3	N-HEXANE	ug/m3	1.2	ND	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	0.61	52	ND	51	1.7	1500	ND
108-88-3	TOLUENE	ug/m3	2.1	2.2	2.4	0.97	3.5	ND	1.2
79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	ND	ND	ND	ND	ND	28	ND
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.9	1.8	1.5	1.4	1.7	ND	1.2
179601-23-1	M,P-XYLENES	ug/m3	1.2	2.8	0.8	0.71	5.9	ND	0.86
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	0.43	2.9	ND	ND	1.6	ND	ND

ND - Not detected
J - Laboratory estimated value

TABLE 2
VALIDATED SURFACE SOIL ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: SEPTEMBER 2012

Former Temco Uniforms Site Remedial Investigation Validated Surface Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm)	Location ID: Sample ID: Lab Sample Id Source: SDG: Matrix: Sampled: Validated:	SS-01 SS-01-09252012 480-25932-1 TALED 48025932 SOIL 9/25/2012 14:00 11/5/2012	Dup of SS-01-09252012 SS-01 SS-DUP1-09252012 480-25932-7 TALED 48025932 SO 9/25/2012 14:00 11/5/2012	SS-02 SS-02-09252012 480-25932-2 TALED 48025932 SO 9/25/2012 13:50 11/5/2012	SS-03 SS-03-09252012 480-25932-3 TALED 48025932 SO 9/25/2012 14:05 11/5/2012	SS-04 SS-04-09252012 480-25932-4 TALED 48025932 SO 9/25/2012 14:10 11/5/2012	SS-05 SS-05-09252012 480-25932-5 TALED 48025932 SO 9/25/2012 13:55 11/5/2012	SS-06 SS-06-09252012 480-25932-6 TALED 48025932 SO 9/25/2012 14:15 11/5/2012
CAS NO.	COMPOUND		UNITS:							
	VOLATILES									
	NONE DETECTED									
	SEMIVOLATILES									
208-96-8	ACENAPHTHYLENE	100	mg/kg	ND	ND	ND	ND	0.051 J	ND	ND
120-12-7	ANTHRACENE	100	mg/kg	ND	ND	0.075 J	ND	0.14 J	ND	0.071 J
56-55-3	BENZO(A)ANTHRACENE	1	mg/kg	0.091 J	0.084 J	0.34	0.16 J	0.61	0.29	0.31
50-32-8	BENZO(A)PYRENE	1	mg/kg	0.16 J	0.12 J	0.43	0.17 J	0.7	0.41	0.34
205-99-2	BENZO(B)FLUORANTHENE	1	mg/kg	0.21	0.13 J	0.55	0.23	0.82	0.5	0.51
191-24-2	BENZO(G,H,I)PERYLENE	100	mg/kg	0.21	0.12 J	0.31	0.17 J	0.49	0.43	0.23
207-08-9	BENZO(K)FLUORANTHENE	0.8	mg/kg	0.089 J	0.07 J	0.26	0.084 J	0.36	0.21	0.22
85-68-7	BENZYL BUTYL PHTHALATE	NS	mg/kg	ND	0.11 J	0.097 J	ND	ND	0.37	0.091 J
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	NS	mg/kg	0.31	0.23	0.73	0.2 J	0.32	ND	0.37
86-74-8	CARBAZOLE	NS	mg/kg	ND	ND	ND	ND	0.093 J	ND	ND
218-01-9	CHRYSENE	1	mg/kg	0.14 J	0.13 J	0.47	0.21	0.68	0.36	0.4
53-70-3	DIBENZ(A,H)ANTHRACENE	NS	mg/kg	ND	0.035 J	0.089 J	ND	0.13 J	ND	0.069 J
84-74-2	DI-N-BUTYL PHTHALATE	NS	mg/kg	ND	ND	0.54	ND	ND	ND	0.098 J
206-44-0	FLUORANTHENE	100	mg/kg	0.12 J	0.14 J	0.64	0.3	1.1	0.42	0.52
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	mg/kg	0.2	0.12 J	0.31	0.16 J	0.53	0.4	0.25
85-01-8	PHENANTHRENE	100	mg/kg	ND	0.064 J	0.25	0.16 J	0.82	0.13 J	0.2
129-00-0	PYRENE	100	mg/kg	0.2	0.16 J	0.58	0.4	1.2	0.59 J	0.47
	SEMIVOLATILE TICs									
70-55-3	BENZENESULFONAMIDE, 4-METHYL-	NS	mg/kg				1.3 JN			
88-19-7	BENZENESULFONAMIDE, 2-METHYL-	NS	mg/kg				0.71 JN			
UNKSV1	UNKNOWN SEMIVOLATILE WITH HIGHEST CONC.	NS	mg/kg		1.6 J	2.3 J	4 J	1.3 J	0.36 J	1.4 J
UNKSV10	UNKNOWN SEMIVOLATILE WITH 10TH HIGHEST CONC.	NS	mg/kg			1.1 J	0.71 J			0.33 J
UNKSV11	UNKNOWN SEMIVOLATILE WITH 11TH HIGHEST CONC.	NS	mg/kg			0.89 J	0.69 J			0.32 J
UNKSV12	UNKNOWN SEMIVOLATILE WITH 12TH HIGHEST CONC.	NS	mg/kg			0.83 J	0.66 J			
UNKSV13	UNKNOWN SEMIVOLATILE WITH 13TH HIGHEST CONC.	NS	mg/kg			0.77 J	0.53 J			
UNKSV14	UNKNOWN SEMIVOLATILE WITH 14TH HIGHEST CONC.	NS	mg/kg			0.76 J	0.53 J			
UNKSV15	UNKNOWN SEMIVOLATILE WITH 15TH HIGHEST CONC.	NS	mg/kg			0.75 J	0.44 J			
UNKSV16	UNKNOWN SEMIVOLATILE WITH 16TH HIGHEST CONC.	NS	mg/kg			0.74 J	0.36 J			
UNKSV17	UNKNOWN SEMIVOLATILE WITH 17TH HIGHEST CONC.	NS	mg/kg			0.68 J				
UNKSV18	UNKNOWN SEMIVOLATILE WITH 18TH HIGHEST CONC.	NS	mg/kg			0.64 J				
UNKSV19	UNKNOWN SEMIVOLATILE WITH 19TH HIGHEST CONC.	NS	mg/kg			0.52 J				
UNKSV2	UNKNOWN SEMIVOLATILE WITH 2ND HIGHEST CONC.	NS	mg/kg		0.59 J	1.7 J	3.7 J	1 J	0.35 J	1.3 J
UNKSV20	UNKNOWN SEMIVOLATILE WITH 20TH HIGHEST CONC.	NS	mg/kg			0.48 J				
UNKSV3	UNKNOWN SEMIVOLATILE WITH 3RD HIGHEST CONC.	NS	mg/kg		0.44 J	1.6 J	1.1 J	0.71 J	0.33 J	0.87 J
UNKSV4	UNKNOWN SEMIVOLATILE WITH 4TH HIGHEST CONC.	NS	mg/kg		0.4 J	1.4 J	1 J	0.63 J		0.84 J
UNKSV5	UNKNOWN SEMIVOLATILE WITH 5TH HIGHEST CONC.	NS	mg/kg		0.36 J	1.3 J	0.88 J	0.61 J		0.7 J
UNKSV6	UNKNOWN SEMIVOLATILE WITH 6TH HIGHEST CONC.	NS	mg/kg		0.34 J	1.2 J	0.83 J	0.59 J		0.59 J
UNKSV7	UNKNOWN SEMIVOLATILE WITH 7TH HIGHEST CONC.	NS	mg/kg		0.33 J	1.2 J	0.83 J	0.5 J		0.52 J
UNKSV8	UNKNOWN SEMIVOLATILE WITH 8TH HIGHEST CONC.	NS	mg/kg		0.33 J	1.2 J	0.78 J	0.43 J		0.38 J
UNKSV9	UNKNOWN SEMIVOLATILE WITH 9TH HIGHEST CONC.	NS	mg/kg			1.2 J	0.76 J	0.4 J		0.34 J

ND - Not detected
NS - No standard
J - Laboratory estimated value
N - Presumptive evidence of the concentration

TABLE 3
VALIDATED SUBSURFACE SOIL ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: AUGUST - SEPTEMBER 2016

NYSDEC-Temco Site 2016 Site Investigation Validated Soil Analytical Data 2016 Soil		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm)	Location ID: Depth: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	SB-27 8.5 - 9 ft SB-27-08302016-8.5-9 480-105250-1 TALBUFF 4801052501 SO 8/30/2016 14:45 10/17/2016	SB-27 16.5 - 17 ft SB-27-08302016-16.5-17 480-105250-2 TALBUFF 4801052501 SO 8/30/2016 14:53 10/17/2016	SB-28 5.5 - 6 ft SB-28-08312016-5.5-6 480-105324-1 TALBUFF 4801053241 SO 8/31/2016 8:10 10/17/2016	SB-28 12.5-13 ft SB-28-08312016-12.5-13 480-105324-2 TALBUFF 4801053241 SO 8/31/2016 8:22 10/17/2016	Dup of SB-28-08312016-12.5-13 SB-28 12.5-13 ft SB-28-08312016-12.5-13-DUP 480-105324-3 TALBUFF 4801053241 SO 8/31/2016 8:22 10/17/2016
CAS NO.	COMPOUND		UNITS:					
	VOLATILES							
75-15-0	CARBON DISULFIDE	NS	mg/kg	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	mg/kg	0.0035 J	0.0098 J-	ND	0.0019 J	0.0028 J

ND - Not detected
NS - No standard
J - Laboratory estimated value
(-) - Biased low

TABLE 3
VALIDATED SUBSURFACE SOIL ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: AUGUST - SEPTEMBER 2016

NYSDEC-Temco Site 2016 Site Investigation Validated Soil Analytical Data 2016 Soil		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm)	Location ID: Depth: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	SB-29 8.5 - 9 ft SB-29-08302016-8.5-9 480-105250-3 TALBUFF 4801052501 SO 8/30/2016 15:11 10/17/2016	SB-29 14.5 - 15 ft SB-29-08302016-14.5-15 480-105250-4 TALBUFF 4801052501 SO 8/30/2016 15:18 10/17/2016	SB-30 5.5 - 6 ft SB-30-08312016-5.5-6 480-105324-10 TALBUFF 4801053241 SO 8/31/2016 12:09 10/17/2016	SB-30 18 - 18.5 ft SB-30-08312016-18-18.5 480-105324-11 TALBUFF 4801053241 SO 8/31/2016 12:55 10/17/2016	SB-31 5.5 - 6 ft SB-31-08312016-5.5-6 480-105324-6 TALBUFF 4801053241 SO 8/31/2016 10:25 10/17/2016
CAS NO.	COMPOUND		UNITS:					
	VOLATILES							
75-15-0	CARBON DISULFIDE	NS	mg/kg	ND	ND	0.004 J	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	mg/kg	0.01 J-	0.012 J-	0.0022 J	0.0032 J	0.0011 J

ND - Not detected
NS - No standard
J - Laboratory estimated value
(-) - Biased low

TABLE 3
VALIDATED SUBSURFACE SOIL ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: AUGUST - SEPTEMBER 2016

NYSDEC-Temco Site 2016 Site Investigation Validated Soil Analytical Data 2016 Soil		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm)	Location ID: Depth: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	SB-31 18 - 18.5 ft SB-31-08312016-18-18.5 480-105324-7 TALBUFF 4801053241 SO 8/31/2016 10:55 10/17/2016	SB-32 5.5 - 6 ft SB-32-08312016-5.5-6 480-105324-8 TALBUFF 4801053241 SO 8/31/2016 11:28 10/17/2016	SB-32 18 - 18.5 ft SB-32-08312016-18-18.5 480-105324-9 TALBUFF 4801053241 SO 8/31/2016 11:50 10/17/2016	SB-33 9.5 - 10 ft SB-33-08312016-9.5-10 480-105324-4 TALBUFF 4801053241 SO 8/31/2016 9:15 10/17/2016	SB-33 18.5 - 19 ft SB-33-08312016-18.5-19 480-105324-5 TALBUFF 4801053241 SOIL 8/31/2016 10:10 10/17/2016
CAS NO.	COMPOUND		UNITS:					
	VOLATILES							
75-15-0	CARBON DISULFIDE	NS	mg/kg	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	mg/kg	0.0018 J	ND	0.0021 J	0.0018 J	0.0048 J

ND - Not detected
NS - No standard
J - Laboratory estimated value
(-) - Biased low

TABLE 4
VALIDATED STEP I GROUNDWATER ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: MAY 2012

Former Temco Uniforms Site Remedial Investigation Validated Step I Groundwater Analytical Data Step I - Existing Monitoring Wells (Prior to RI Well Installation) Detected Compound Summary		NYSDEC (1) Class GA Groundwater Standards/Guidance	Location ID: Sample ID: Matrix: SDG: Lab Sample Id: Sampled: Validated:	MW-1 MW-1-052312 WG 480204531 480-20453-1 5/23/2012 6/25/2012	MW-3 MW-3-052312 WG 480204531 480-20453-2 5/23/2012 6/25/2012	MW-5 MW-5-052312 WG 480204531 480-20453-3 5/23/2012 6/25/2012	Dup of MW-5-052312 MW-5 FD-052312 WG 480204531 480-20453-8 5/23/2012 6/25/2012	MW-8S MW-8S-052312 WG 480204531 480-20453-4 5/23/2012 6/25/2012	MW-8D MW-8D-052312 WG 480204531 480-20453-5 5/23/2012 6/25/2012	MW-10S MW-10S-052312 WG 480204531 480-20453-6 5/23/2012 6/25/2012	MW-10D MW-10D-052312 WG 480204531 480-20453-7 5/23/2012 6/25/2012
CAS NO.	COMPOUND		UNITS:								
	VOLATILES - Method SW8260B										
67-66-3	CHLOROFORM	7	ug/l	2.2	6.2	32	34	1 U	31	1 U	33
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	1 U	220	3.2	3.3	280	14	4.9	34
	VOLATILE TICs - Method SW8260B										
1000221-67-3	PROPANOIC ACID, 2-METHYL-, TERT-BUTYLDIM	NS	ug/l							2.7 JN	

(1) - NYSDEC Ambient Water Quality Standards and Guidance Values - 1998
U - Not detected
NS - No standard
J - Laboratory estimated value
N - Presumptive evidence of the concentration

TABLE 5
VALIDATED MONITORING WELL SOIL BORING ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: MAY 2012

Former Temco Uniforms Site Remedial Investigation Validated 2012 Soil Boring Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm)	Location ID: Sample ID: Matrix: SDG: Sample Depth: ft below ground surface Lab Sample Id: Sampled: Validated: UNITS:	MW-11 MW-11-101012 SOIL 480265441 25 to 27 480-26544-1 10/10/2012 11/5/2012	Dup of MW-11-101012 MW-11 FD-101012 SOIL 480265441 25 to 27 480-26544-2 10/10/2012 11/5/2012	MW-12 MW-12-100412 SOIL 480262641 25 to 27 480-26264-2 10/4/2012 11/5/2012	MW-13 MW-13-100512 SOIL 480262641 23 to 25 480-26264-3 10/5/2012 11/5/2012	MW-14 MW-14-100312 SOIL 480262641 21 to 23 480-26264-1 10/3/2012 11/5/2012	MW-15 MW-15-101112 SOIL 480265441 25 to 27 480-26544-3 10/11/2012 11/5/2012
CAS NO.	COMPOUND								
	VOLATILES - Method 8260B								
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	mg/kg	0.0059 U	0.0058 U	0.0054 U	0.0065 U	0.00085 J	0.0052 UJ
	VOLATILE TICs								
581-40-8	2,3-DIMETHYL NAPHTHALENE	NS	mg/kg	0.015 JN					

U - Not detected
NS - No standard
J - Laboratory estimated value
N - Presumptive evidence of the concentration

TABLE 6
VALIDATED STEP II GROUNDWATER ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: NOVEMBER 2012

Former Temco Uniforms Site Remedial Investigation Validated Step II Groundwater Analytical Data Detected Compound Summary		NYSDEC (1) Class GA Groundwater Standards/Guidance	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW 1 MW 1 111312 480-28448-1 TALBUFF 480284481 WATER 11/13/2012 9:35 12/20/2012	MW 3 MW 3 111312 480-28448-3 TALBUFF 480284481 WATER 11/13/2012 13:00 12/20/2012	MW 8D MW 8D 111312 480-28448-5 TALBUFF 480284481 WATER 11/13/2012 15:50 12/20/2012	MW 8S MW 8S 111312 480-28448-4 TALBUFF 480284481 WATER 11/13/2012 14:50 12/20/2012	MW 10D MW 10D 111312 480-28448-2 TALBUFF 480284481 WATER 11/13/2012 10:30 12/20/2012	MW-11 MW-11 111512 480-28615-1 TALBUFF 480284481 WATER 11/15/2012 11:20 12/20/2012	MW-12 MW-12-111412 480-28509-1 TALBUFF 480284481 WATER 11/14/2012 9:15 12/20/2012	MW-13 MW-13-111412 480-28509-2 TALBUFF 480284481 WATER 11/14/2012 9:35 12/20/2012	MW-14 MW-14-111412 480-28509-3 TALBUFF 480284481 WATER 11/14/2012 11:40 12/20/2012	Dup of MW-14 MW-14 DUP-111412 480-28509-5 TALBUFF 480284481 WATER 11/14/2012 8:01 12/20/2012	MW-15 MW-15-111412 480-28509-4 TALBUFF 480284481 WATER 11/14/2012 14:40 12/20/2012
CAS NO.	COMPOUND		UNITS:											
	VOLATILES													
75-27-4	BROMODICHLOROMETHANE	50 (G)	ug/l	ND	ND	0.48 J	ND	ND	4.4	ND	ND	ND	ND	0.81 J
67-66-3	CHLOROFORM	7	ug/l	0.4 J	3.1	38	0.82 J	23	36	1	1.5	11	9.4	26
124-48-1	DIBROMOCHLOROMETHANE	50 (G)	ug/l	ND	ND	ND	ND	ND	2.8 J	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	ND	300	24	350	29	ND	2	7.3	75	79	14
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	0.96 J	0.97 J	ND
XYLENES	XYLENES, TOTAL	5	ug/l	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	ND
	OTHER													
74-82-8	METHANE	NS	ug/l						2.6 J	ND	ND	ND	ND	ND
16887-00-6	CHLORIDE (AS CL)	250	mg/l						144	100	90.5	56.2	55.9	166
14797-55-8	NITROGEN, NITRATE (AS N)	NS	mg/l						0.76	3.9	4.3	3.2	3.4	6.2
14808-79-8	SULFATE (AS SO4)	250	mg/l						49.8	23.9	17.2	30.5	30.3	29.1
DOC	DISSOLVED ORGANIC CARBON	NS	mg/l						1.1	ND	ND	ND	ND	ND

(1) - NYSDEC Ambient Water Quality Standards and Guidance Values - 1998
ND - Not detected
NS - No standard
(G) - Guidance Value
J - Laboratory estimated value

TABLE 7
VALIDATED MONITORING WELL SOIL BORING ANALYTICAL DATA
DETECTED COMPOUND SUMMARY: DECEMBER 2015

NYSDEC-Temco Site 2012 Site Investigation Validated Soil Boring Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective	Location ID: Sample ID: Matrix: SDG: Lab Sample Id: Sampled: Validated:	MW-16 MW-16(28-30)-20151203 SOIL 480-92048 480-92137-1 12/3/2015 9:40 3/14/2016	MW-16 DUP-120315-20151203 SOIL 480-92048 480-92137-2 12/3/2015 12:01 3/14/2016	MW-17 MW-17 (24-26)-20151202 SOIL 480-92048 480-92048-1 12/2/2015 9:10 3/14/2016
CAS NO.	COMPOUND	(ppm)	UNITS:		Dup of MW-16(28-30)-20151203	
	VOLATILES - Method 8260B					
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	mg/kg	0.0091	0.0091	ND
108-88-3	TOLUENE	0.7	mg/kg	ND	0.0005 J	ND

ND - Not detected

J - Laboratory estimated value

TABLE 8

VALIDATED PHASE II GROUNDWATER ANALYTICAL DATA

DETECTED COMPOUND SUMMARY: AUGUST - SEPTEMBER 2016

NYSDEC-Temco Site 2016 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC [1] Class GA Groundwater Standards/Guidance	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-1 MW-1-082916 480-105253-1 TALBUFF 4801052531 WA 8/29/2016 12:55 10/17/2016	MW-5 MW-5-09012016 480-105400-1 TALBUFF 4801054001 WA 9/1/2016 9:05 10/17/2016	MW-8D MW-8D-083016 480-105253-5 TALBUFF 4801052531 WA 8/30/2016 11:50 10/17/2016	MW-8S MW-8S-083016 480-105253-4 TALBUFF 4801052531 WA 8/30/2016 10:30 10/17/2016	MW-9 MW-9-090116 480-105400-9 TALBUFF 4801054001 WA 9/1/2016 10:50 10/17/2016	MW-10D MW-10D-082916 480-105253-3 TALBUFF 4801052531 WA 8/29/2016 15:59 10/17/2016	MW-10S MW-10S-082916 480-105253-2 TALBUFF 4801052531 WA 8/29/2016 14:50 10/17/2016	MW-11 MW-11-083016 480-105253-6 TALBUFF 4801052531 WA 8/30/2016 15:00 10/17/2016
CAS NO.	COMPOUND		UNITS:								
	VOLATILES										
67-64-1	ACETONE	50 (G)	ug/l	3.7 J	ND	ND	ND	ND	ND	ND	ND
75-27-4	BROMODICHLOROMETHANE	50 (G)	ug/l	ND	ND	ND	ND	ND	ND	ND	1.7
75-15-0	CARBON DISULFIDE	60 (G)	ug/l	0.32 J	ND	ND	ND	ND	ND	ND	ND
67-66-3	CHLOROFORM	7	ug/l	ND	ND	6.1	ND	ND	6.5	ND	11
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	ND	140	25	200	1.5	41	8.1	0.84 J
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
	VOLATILE TICs										
UNKVOA1	UNKNOWN VOLATILE ORGANIC	NS	ug/l		35 J	9.2 J					

(1) - NYSDEC Ambient Water Quality Standards and Guidance Values - 1998

ND - Not detected

NS - No standard

(G) - Guidance Value

J - Laboratory estimated value

TABLE 8

VALIDATED PHASE II GROUNDWATER ANALYTICAL DATA

DETECTED COMPOUND SUMMARY: AUGUST - SEPTEMBER 2016

NYSDEC-Temco Site 2016 Site Investigation Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC (1) Class GA Groundwater Standards/Guidance	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-12 MW-12-09012016 480-105400-2 TALBUFF 4801054001 WA 9/1/2016 10:25 10/17/2016	MW-13 MW-13-09012016 480-105400-3 TALBUFF 4801054001 WA 9/1/2016 11:40 10/17/2016	MW-14 MW-14-090116 480-105400-10 TALBUFF 4801054001 WA 9/1/2016 12:15 10/17/2016	MW-15 MW-15-083116 480-105400-4 TALBUFF 4801054001 WA 8/31/2016 9:05 10/17/2016	MW-16 MW-16-083116 480-105400-6 TALBUFF 4801054001 WA 8/31/2016 13:15 10/17/2016	Dup of MW-16-083116 MW-16 MW-16-083116-D 480-105400-7 TALBUFF 4801054001 WA 8/31/2016 13:15 10/17/2016	MW-17 MW-17-083116 480-105400-5 TALBUFF 4801054001 WA 8/31/2016 10:50 10/17/2016
CAS NO.	COMPOUND		UNITS:							
	VOLATILES									
67-64-1	ACETONE	50 (G)	ug/l	ND	ND	ND	ND	ND	ND	ND
75-27-4	BROMODICHLOROMETHANE	50 (G)	ug/l	ND	ND	ND	ND	ND	ND	ND
75-15-0	CARBON DISULFIDE	60 (G)	ug/l	ND	ND	ND	ND	ND	ND	ND
67-66-3	CHLOROFORM	7	ug/l	ND	ND	ND	17	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	5	ug/l	1.6	8.7	18	42	35	38	63
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/l	ND	ND	0.53 J	ND	1.1	1.2	0.53 J
	VOLATILE TICs									
UNKVOA1	UNKNOWN VOLATILE ORGANIC	NS	ug/l				9.1 J			

(1) - NYSDEC Ambient Water Quality Standards and Guidance Values - 1998

ND - Not detected

NS - No standard

(G) - Guidance Value

J - Laboratory estimated value

APPENDIX A

DATA USABILITY SUMMARY REPORT FOR 2012 SOIL VAPOR SAMPLING

APPENDIX A

DATA USABILITY SUMMARY REPORT

FORMER TEMCO UNIFORMS SITE

2012 SOIL VAPOR SAMPLING

Prepared For:

New York State Department of Environmental Conservation
Division of Environmental Remediation

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MAY 2012

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LIST OF ATTACHMENTS

SECTION 1

DATA USABILITY SUMMARY

Subslab and indoor air samples were collected from the Former Temco Uniforms site in West Haverstraw, New York on April 19, 2012. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- July 2005 NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic data review.

The analytical laboratory for this project was Test America Laboratory – Knoxville, TN (TAL). This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 18 days for the project samples.

The data packages received from TAL were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at TAL within one day of sampling. All samples were received intact and in good condition at the laboratory.

1.3 LABORATORY ANALYTICAL METHODS

The air samples that were collected from the site were analyzed for volatile organic compounds (VOCs). Summaries of issues concerning this laboratory analysis are presented in Subsections 1.3.1. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given,

"N" - presumptive evidence at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Subslab and indoor air samples were analyzed for VOCs using the USEPA TO-15 analytical method. Certain reported results for the VOC samples were qualified as estimated based upon instrument calibration range exceedances. The reported VOC analytical results were 100% complete (i.e., usable) for the air data. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 AIR SAMPLES

Data review has been completed for data packages generated by TAL containing analytical results from air samples collected from the site. All of these samples were shipped under a COC record and received intact by the analytical laboratory. Analytical results for these samples were contained within sample delivery group (SDG) H2D240442. Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review for the TO-15 analytical method. This data validation and usability report is presented by analysis type. The validated laboratory data are presented in Attachment A.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- LCS recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Sample result verification and identification
- Canister certifications
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of instrument calibrations as discussed below.

Instrument Calibrations

All initial and continuing calibration compounds were compliant and within QC limits. It was noted that ethanol exceeded the instrument calibration range in samples IA-01, -02, -03, and -04. Since these samples were not reanalyzed, the ethanol results were considered estimated and qualified "J" for these samples.

Usability

All sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile air data presented by TAL were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A

VALIDATED LABORATORY DATA

		sys_loc_code	OUTDOOR AIR		PROP1-		PROP1-		PROP2-		PROP2-	
		sys_sample_code	AA-041812_04/19/12		IA-01-041812_04/19/12		SS-01-041812_04/19/12		IA-02-041812_04/19/12		SS-02-041812_04/19/12	
		matrix_code	AO		AI		AS		AI		AS	
		field_sdg	H2D240442		H2D240442		H2D240442		H2D240442		H2D240442	
		lab_sample_id	H2D240442005		H2D240442002		H2D240442001		H2D240442004		H2D240442003	
		sample_date	4/19/2012		4/19/2012		4/19/2012		4/19/2012		4/19/2012	
		task_code	Temco		Temco		Temco		Temco		Temco	
Method	cas_rn	chemical_name	result_unit									
TO15	100-41-4	ETHYLBENZENE	ug/m3	0.35 U	0.35 U		66 U		0.88		45 U	
TO15	100-42-5	STYRENE	ug/m3	0.34 U	0.34 U		64 U		0.34 U		44 U	
TO15	100-44-7	BENZYL CHLORIDE	ug/m3	0.83 U	0.83 U		160 U		0.83 U		110 U	
TO15	10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.36 U		68 U		0.36 U		47 U	
TO15	10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.36 U		68 U		0.36 U		47 U	
TO15	106-46-7	1,4-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U		91 U		0.48 U		62 U	
TO15	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/m3	0.61 U	0.61 U		120 U		0.61 U		80 U	
TO15	107-06-2	1,2-DICHLOROETHANE	ug/m3	0.32 U	2.1		61 U		0.32 U		42 U	
TO15	108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/m3	0.82 U	0.82 U		150 U		0.82 U		110 U	
TO15	108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	0.39 U	0.39 U		74 U		0.39 U		51 U	
TO15	108-88-3	TOLUENE	ug/m3	1.8	5.4		57 U		2.3		39 U	
TO15	108-90-7	CHLOROBENZENE	ug/m3	0.37 U	0.37 U		69 U		0.37 U		48 U	
TO15	110-54-3	N-HEXANE	ug/m3	0.7 U	0.7 U		130 U		0.7 U		91 U	
TO15	110-82-7	CYCLOHEXANE	ug/m3	0.69 U	0.69 U		130 U		0.69 U		89 U	
TO15	120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	0.59 U	0.59 U		110 U		0.59 U		77 U	
TO15	123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/m3	0.72 U	0.72 U		140 U		0.72 U		93 U	
TO15	124-48-1	DIBROMOCHLOROMETHANE	ug/m3	0.68 U	0.68 U		130 U		0.68 U		88 U	
TO15	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	0.54 U	8.8		5200		61		4600	
TO15	136777-61-2	M-P-XYLENE	ug/m3	0.88	0.49		66 U		3		45 U	
TO15	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/m3	0.32 U	0.32 U		60 U		0.32 U		41 U	
TO15	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	0.32 U	0.32 U		60 U		0.32 U		41 U	
TO15	1634-04-4	TERT-BUTYL METHYL ETHER	ug/m3	0.58 U	0.58 U		110 U		0.58 U		75 U	
TO15	540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	0.93 U	1.6		180 U		0.93 U		120 U	
TO15	541-73-1	1,3-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U		91 U		0.48 U		62 U	
TO15	56-23-5	CARBON TETRACHLORIDE	ug/m3	0.53	0.61		47 U		0.66		33 U	
TO15	64-17-5	ETHANOL	ug/m3	17	610 J		280 U		1700 J		200 U	
TO15	67-66-3	CHLOROFORM	ug/m3	0.39 U	1.4		74 U		1.8		51 U	
TO15	71-43-2	BENZENE	ug/m3	0.49	0.54		48 U		0.69		33 U	
TO15	71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	0.44 U	0.44 U		82 U		0.44 U		56 U	
TO15	74-83-9	BROMOMETHANE	ug/m3	0.31 U	0.31 U		59 U		0.31 U		40 U	
TO15	74-87-3	CHLOROMETHANE	ug/m3	1.2	1.6		78 U		1.3		53 U	
TO15	75-00-3	CHLOROETHANE	ug/m3	0.21 U	0.21 U		40 U		0.21 U		27 U	
TO15	75-01-4	VINYL CHLORIDE	ug/m3	0.2 U	0.2 U		39 U		0.2 U		26 U	
TO15	75-09-2	METHYLENE CHLORIDE	ug/m3	1.1	1.9		130 U		1.3		90 U	
TO15	75-25-2	BROMOFORM	ug/m3	0.83 U	0.83 U		160 U		0.83 U		110 U	
TO15	75-27-4	BROMODICHLOROMETHANE	ug/m3	0.54 U	0.54 U		100 U		0.54 U		69 U	
TO15	75-34-3	1,1-DICHLOROETHANE	ug/m3	0.32 U	0.32 U		61 U		0.32 U		42 U	
TO15	75-35-4	1,1-DICHLOROETHENE	ug/m3	0.32 U	0.32 U		60 U		0.32 U		41 U	

		sys_loc_code	OUTDOOR AIR		PROP1-		PROP1-		PROP2-		PROP2-	
		sys_sample_code	AA-041812_04/19/12		IA-01-041812_04/19/12		SS-01-041812_04/19/12		IA-02-041812_04/19/12		SS-02-041812_04/19/12	
		matrix_code	AO		AI		AS		AI		AS	
		field_sdg	H2D240442		H2D240442		H2D240442		H2D240442		H2D240442	
		lab_sample_id	H2D240442005		H2D240442002		H2D240442001		H2D240442004		H2D240442003	
		sample_date	4/19/2012		4/19/2012		4/19/2012		4/19/2012		4/19/2012	
		task_code	Temco		Temco		Temco		Temco		Temco	
Method	cas_rn	chemical_name	result_unit									
TO15	75-65-0	TERT-BUTYL ALCOHOL	ug/m3	0.97 U	0.97 U		180 U		0.97 U		130 U	
TO15	75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.4	2.2		85 U		2.9		58 U	
TO15	75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	2.4	2.5		75 U		2.6		51 U	
TO15	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	0.63	0.67		120 U		0.63		79 U	
TO15	76-14-2	1,2-DICHLOROTETRAFLUOROETHANE	ug/m3	0.56 U	0.56 U		110 U		0.56 U		72 U	
TO15	78-87-5	1,2-DICHLOROPROPANE	ug/m3	0.37 U	0.37 U		70 U		0.37 U		48 U	
TO15	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	2.9	3		180 U		2.4		120 U	
TO15	79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	0.44 U	0.44 U		82 U		0.44 U		56 U	
TO15	79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	0.21 U	0.22		50		0.79		54	
TO15	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	0.55 U	0.55 U		100 U		0.55 U		71 U	
TO15	87-68-3	HEXACHLOROBUTADIENE	ug/m3	0.85 U	0.85 U		160 U		0.85 U		110 U	
TO15	95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	0.35 U	0.35 U		66 U		0.85		45 U	
TO15	95-50-1	1,2-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U		91 U		0.48 U		62 U	
TO15	95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	0.39 U	0.39 U		74 U		0.39 U		51 U	

		sys_loc_code	PROP3-		PROP3-I		PROP4-		PROP4-	
		sys_sample_code	IA-03-041812_04/19/12		SS-03-041812_04/19/12		IA-04-041812_04/19/12		SS-04-041812_04/19/12	
		matrix_code	AI		AS		AI		AS	
		field_sdg	H2D240442		H2D240442		H2D240442		H2D240442	
		lab_sample_id	H2D240442007		H2D240442006		H2D240442009		H2D240442008	
		sample_date	4/19/2012		4/19/2012		4/19/2012		4/19/2012	
		task_code	Temco		Temco		Temco		Temco	
Method	cas_rn	chemical_name	result_unit							
TO15	100-41-4	ETHYLBENZENE	ug/m3	0.56	0.69 U		0.35 U		16 U	
TO15	100-42-5	STYRENE	ug/m3	0.34 U	0.68 U		0.34 U		15 U	
TO15	100-44-7	BENZYL CHLORIDE	ug/m3	0.83 U	1.7 U		0.83 U		38 U	
TO15	10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.73 U		0.36 U		17 U	
TO15	10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.73 U		0.36 U		17 U	
TO15	106-46-7	1,4-DICHLOROBENZENE	ug/m3	0.48 U	0.96 U		0.48 U		22 U	
TO15	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/m3	0.61 U	1.2 U		0.61 U		28 U	
TO15	107-06-2	1,2-DICHLOROETHANE	ug/m3	0.64	0.65 U		0.32 U		15 U	
TO15	108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/m3	0.82 U	1.6 U		0.82 U		37 U	
TO15	108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	0.39 U	0.79 U		0.39 U		18 U	
TO15	108-88-3	TOLUENE	ug/m3	3.4	1.1		1.8		14 U	
TO15	108-90-7	CHLOROBENZENE	ug/m3	0.37 U	0.74 U		0.37 U		17 U	
TO15	110-54-3	N-HEXANE	ug/m3	0.79	1.4 U		0.7 U		32 U	
TO15	110-82-7	CYCLOHEXANE	ug/m3	0.69 U	1.4 U		0.69 U		31 U	
TO15	120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	0.59 U	1.2 U		0.59 U		27 U	
TO15	123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/m3	0.72 U	1.4 U		0.72 U		33 U	
TO15	124-48-1	DIBROMOCHLOROMETHANE	ug/m3	0.68 U	1.4 U		0.68 U		31 U	
TO15	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	1.2	77		22		2400	
TO15	136777-61-2	M-P-XYLENE	ug/m3	1.8	0.69 U		0.35 U		16 U	
TO15	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/m3	0.32 U	0.63 U		0.32 U		14 U	
TO15	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	0.32 U	0.63 U		0.32 U		14 U	
TO15	1634-04-4	TERT-BUTYL METHYL ETHER	ug/m3	0.58 U	1.2 U		0.58 U		26 U	
TO15	540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	0.93 U	1.9 U		0.93 U		42 U	
TO15	541-73-1	1,3-DICHLOROBENZENE	ug/m3	0.48 U	0.96 U		0.48 U		22 U	
TO15	56-23-5	CARBON TETRACHLORIDE	ug/m3	0.48	0.5 U		0.43		11 U	
TO15	64-17-5	ETHANOL	ug/m3	180 J	71		170 J		83	
TO15	67-66-3	CHLOROFORM	ug/m3	0.7	0.78 U		0.73		18 U	
TO15	71-43-2	BENZENE	ug/m3	0.44	0.51 U		0.44		12 U	
TO15	71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	0.44 U	0.87 U		0.44 U		20 U	
TO15	74-83-9	BROMOMETHANE	ug/m3	0.31 U	0.62 U		0.31 U		14 U	
TO15	74-87-3	CHLOROMETHANE	ug/m3	1.2	0.83 U		1.2		19 U	
TO15	75-00-3	CHLOROETHANE	ug/m3	0.21 U	0.42 U		0.21 U		9.6 U	
TO15	75-01-4	VINYL CHLORIDE	ug/m3	0.2 U	0.41 U		0.2 U		9.3 U	
TO15	75-09-2	METHYLENE CHLORIDE	ug/m3	1.9	1.4 U		2.3		32 U	
TO15	75-25-2	BROMOFORM	ug/m3	0.83 U	1.7 U		0.83 U		38 U	
TO15	75-27-4	BROMODICHLOROMETHANE	ug/m3	0.54 U	1.1 U		0.54 U		24 U	
TO15	75-34-3	1,1-DICHLOROETHANE	ug/m3	0.32 U	0.65 U		0.32 U		15 U	
TO15	75-35-4	1,1-DICHLOROETHENE	ug/m3	0.32 U	0.63 U		0.32 U		14 U	

		sys_loc_code	PROP3-		PROP3-		PROP4-		PROP4-	
		sys_sample_code	IA-03-041812_04/19/12		SS-03-041812_04/19/12		IA-04-041812_04/19/12		SS-04-041812_04/19/12	
		matrix_code	AI		AS		AI		AS	
		field_sdg	H2D240442		H2D240442		H2D240442		H2D240442	
		lab_sample_id	H2D240442007		H2D240442006		H2D240442009		H2D240442008	
		sample_date	4/19/2012		4/19/2012		4/19/2012		4/19/2012	
		task_code	Temco		Temco		Temco		Temco	
Method	cas_rn	chemical_name	result_unit							
TO15	75-65-0	TERT-BUTYL ALCOHOL	ug/m3	0.97 U	1.9 U		0.97 U		44 U	
TO15	75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.8	1.8		2.4		20 U	
TO15	75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	2.3	2.2		2.2		18 U	
TO15	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	0.61 U	1.2 U		0.61 U		28 U	
TO15	76-14-2	1,2-DICHLOROTETRAFLUOROETHANE	ug/m3	0.56 U	1.1 U		0.56 U		25 U	
TO15	78-87-5	1,2-DICHLOROPROPANE	ug/m3	0.37 U	0.74 U		0.37 U		17 U	
TO15	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	2	2.1		1.6		43 U	
TO15	79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	0.44 U	0.87 U		0.44 U		20 U	
TO15	79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	0.21 U	0.43 U		0.37		34	
TO15	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	0.55 U	1.1 U		0.55 U		25 U	
TO15	87-68-3	HEXACHLOROBUTADIENE	ug/m3	0.85 U	1.7 U		0.85 U		39 U	
TO15	95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	0.58	0.69 U		0.35 U		16 U	
TO15	95-50-1	1,2-DICHLOROBENZENE	ug/m3	0.48 U	0.96 U		0.48 U		22 U	
TO15	95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	0.39 U	0.79 U		0.39 U		18 U	

APPENDIX B

DATA USABILITY SUMMARY REPORT FOR 2013 SOIL VAPOR SAMPLING

APPENDIX B

DATA USABILITY SUMMARY REPORT

FORMER TEMCO UNIFORMS SITE

2013 SOIL VAPOR SAMPLING

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MAY 2013

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LIST OF ATTACHMENTS

SECTION 1

DATA USABILITY SUMMARY

Soil vapor samples were collected from the Former Temco Uniforms site in West Haverstraw, New York on March 27, 2013. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The analytical laboratories for this project were Test America Laboratories (TAL) in Knoxville, Tennessee. This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 21 days for the project samples.

The data packages received from TAL were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized by sample media in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at TAL within three days of sampling. All samples were received intact and in good condition at the laboratory overall.

1.3 LABORATORY ANALYTICAL METHODS

The soil vapor samples that were collected from the site were analyzed for volatile organic compounds (VOCs). Summaries of issues concerning this laboratory analysis are presented in Subsections 1.3.1. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method by media in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given,

"N" - presumptive evidence at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Air samples were analyzed for VOCs using the USEPA TO-15 analytical method. Certain reported results for VOC samples were qualified as estimated based upon instrument calibrations. The reported VOC analytical results were 100% complete (i.e., usable) for the project samples. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 AIR

Data review has been completed for data packages generated by TAL containing soil vapor samples collected from the site. Analytical results from these samples were contained within sample delivery group (SDG) H3D010404. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of continuing calibrations as discussed below.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within $\pm$30% with the exception of ethanol (-40.08912%D, -31.12918%D, -39.12918%D) in the continuing calibrations associated with all samples; and hexachlorobutadiene (33.14348%D) in the continuing calibration associated with samples SS-

03-032613, IA-11-032613, SS-11-032613, AA-11-032613, IA-10-032613, and SS-10-032613. Therefore, the sample results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

It was noted that ethanol exceeded instrument calibration ranges for samples IA-03-032613, IA-11-032613, and IA-10-032613. These samples were diluted and reanalyzed with the diluted results reported in the validated laboratory data table in Attachment A.

Usability

All volatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile data presented by TAL were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A

VALIDATED LABORATORY DATA

NYSDEC-Temco Site Site Investigation 2013-Validated Air Analytical Data		Location ID: Sample ID: Lab Sample Id Source: SDG: Matrix: Sampled: Validated:	AA-11-032613 AA-11-032613 H3D010404005 TALKNX H3D010404 AIR 3/27/13 11:00 4/21/2013	IA-03-032613 IA-03-032613 H3D010404001 TALKNX H3D010404 AIR 3/27/13 11:28 4/21/2013	IA-10-032613 IA-10-032613 H3D010404006 TALKNX H3D010404 AIR 3/27/13 9:56 4/21/2013	IA-11-032613 IA-11-032613 H3D010404003 TALKNX H3D010404 AIR 3/27/13 10:45 4/21/2013	SS-03-032613 SS-03-032613 H3D010404002 TALKNX H3D010404 AIR 3/27/13 11:28 4/21/2013	SS-10-032613 SS-10-032613 H3D010404007 TALKNX H3D010404 AIR 3/27/13 9:56 4/21/2013	SS-11-032613 SS-11-032613 H3D010404004 TALKNX H3D010404 AIR 3/27/13 10:45 4/21/2013
CAS NO.	COMPOUND	UNITS:							
	VOLATILES								
71-55-6	1,1,1-TRICHLOROETHANE	ug/m3	0.44 U	0.44 U	0.44 U	0.44 U	0.87 U	0.87 U	8.7 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	0.55 U	0.55 U	0.55 U	0.55 U	1.1 U	1.1 U	11 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	0.61 U	0.61 U	0.61 U	0.61 U	1.2 U	1.2 U	12 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	0.44 U	0.44 U	0.44 U	0.44 U	0.87 U	0.87 U	8.7 U
75-34-3	1,1-DICHLOROETHANE	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U	0.65 U	0.65 U	6.5 U
75-35-4	1,1-DICHLOROETHENE	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U	0.63 U	0.63 U	6.3 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	0.59 U	0.59 U	0.59 U	0.59 U	1.2 U	1.2 U	12 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.79 U	7.9 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/m3	0.61 U	0.61 U	0.61 U	0.61 U	1.2 U	1.2 U	12 U
95-50-1	1,2-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.96 U	9.6 U
107-06-2	1,2-DICHLOROETHANE	ug/m3	0.32 U	0.32 U	0.77	0.32 U	0.65 U	0.65 U	6.5 U
78-87-5	1,2-DICHLOROPROPANE	ug/m3	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.74 U	7.4 U
76-14-2	1,2-DICHLOROTETRAFLUOROETHANE	ug/m3	0.56 U	0.56 U	0.56 U	0.56 U	1.1 U	1.1 U	11 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/m3	0.39 U	0.39 U	0.39 U	0.39 U	0.79 U	0.79 U	7.9 U
541-73-1	1,3-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.96 U	9.6 U
106-46-7	1,4-DICHLOROBENZENE	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.96 U	9.6 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/m3	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	1.4 U	14 U
540-84-1	2,2,4-TRIMETHYLPENTANE	ug/m3	0.93 U	0.93 U	0.93 U	1.1	1.9 U	1.9 U	19 U
71-43-2	BENZENE	ug/m3	0.52	0.55	0.6	0.6	0.51 U	0.51 U	5.1 U
100-44-7	BENZYL CHLORIDE	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U	1.7 U	1.7 U	17 U
75-27-4	BROMODICHLOROMETHANE	ug/m3	0.54 U	0.54 U	0.54 U	0.89	1.1 U	1.1 U	11 U
75-25-2	BROMOFORM	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U	1.7 U	1.7 U	17 U
74-83-9	BROMOMETHANE	ug/m3	0.31 U	0.31 U	0.31 U	0.31 U	0.62 U	0.62 U	6.2 U
56-23-5	CARBON TETRACHLORIDE	ug/m3	0.53	0.6	0.51	0.55	0.5 U	0.5 U	5 U
108-90-7	CHLOROBENZENE	ug/m3	0.37 U	0.37 U	0.37 U	0.37 U	0.73 U	0.73 U	7.3 U
75-00-3	CHLOROETHANE	ug/m3	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.42 U	4.2 U
67-66-3	CHLOROFORM	ug/m3	0.39 U	0.71	0.39 U	4	0.78 U	0.78 U	7.8 U
74-87-3	CHLOROMETHANE	ug/m3	1.4	1.6	1.4	2.5	0.83 U	0.83 U	8.3 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U	0.63 U	0.63 U	6.3 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.36 U	0.36 U	0.36 U	0.73 U	0.73 U	7.3 U
110-82-7	CYCLOHEXANE	ug/m3	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	1.4 U	14 U
124-48-1	DIBROMOCHLOROMETHANE	ug/m3	0.68 U	0.68 U	0.68 U	0.68 U	1.4 U	1.4 U	14 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	1	1.3	1.1	1.3	1.7	1.8	7.9 U
64-17-5	ETHANOL	ug/m3	9.8 J	260 J	330 J	720 J	7.4 J	160 J	41 J
100-41-4	ETHYLBENZENE	ug/m3	0.35 U	0.35 U	0.35 U	1.6	0.69 U	0.69 U	6.9 U
87-68-3	HEXACHLOROBUTADIENE	ug/m3	0.85 UJ	0.85 U	0.85 UJ	0.85 UJ	1.7 UJ	1.7 UJ	17 UJ
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/m3	0.94 U	1.2	2.1	3.4	1.9 U	2.8	19 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U	1.6 U	1.6 U	16 U
75-09-2	METHYLENE CHLORIDE	ug/m3	0.69 U	4.8	1.2	2.3	7.2	1.4 U	14 U
110-54-3	N-HEXANE	ug/m3	0.7 U	1.2	0.7 U	0.7 U	1.4 U	1.4 U	14 U
100-42-5	STYRENE	ug/m3	0.34 U	0.34 U	0.34 U	0.34 U	0.68 U	0.68 U	6.8 U
75-65-0	TERT-BUTYL ALCOHOL	ug/m3	0.97 U	0.97 U	0.97 U	0.97 U	1.9 U	1.9 U	19 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/m3	0.58 U	0.58 U	0.58 U	0.58 U	1.2 U	1.2 U	12 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/m3	0.54 U	0.61	0.54 U	1.7	52	51	1500
108-88-3	TOLUENE	ug/m3	1.2	2.1	2.4	3.5	2.2	0.97	6 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U	0.63 U	0.63 U	6.3 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	0.36 U	0.36 U	0.36 U	0.36 U	0.73 U	0.73 U	7.3 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/m3	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.43 U	28
75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	1.2	1.9	1.5	1.7	1.8	1.4	9 U
75-01-4	VINYL CHLORIDE	ug/m3	0.2 U	0.2 U	0.2 U	0.2 U	0.41 U	0.41 U	4.1 U
179601-23-1	M,P-XYLENES	ug/m3	0.86	1.2	0.8	5.9	2.8	0.71	6.9 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/m3	0.35 U	0.43	0.35 U	1.6	2.9	0.69 U	6.9 U

APPENDIX C

DATA USABILITY SUMMARY REPORT FOR 2012 SOIL AND GROUNDWATER SAMPLING

APPENDIX C

DATA USABILITY SUMMARY REPORT

FORMER TEMCO UNIFORMS SITE

2012 SOIL AND GROUNDWATER SAMPLING

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APRIL 2013

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LIST OF ATTACHMENTS

SECTION 1

DATA USABILITY SUMMARY

Soil and groundwater samples were collected from the Former Temco Uniforms site in West Haverstraw, New York from May 23, 2012 through November 15, 2012. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The analytical laboratories for this project were Test America Laboratories (TAL) in Buffalo, New York and Edison, New Jersey. These laboratories are certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 8-27 days for the project samples.

The data packages received from TAL were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized by sample media in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at TAL within one to three days of sampling. All samples were received intact and in good condition at the laboratory overall.

1.3 LABORATORY ANALYTICAL METHODS

The soil samples that were collected from the site were analyzed for volatile organic compounds (VOCs) or semivolatile organic compounds (SVOCs). The groundwater samples that were collected from the site were analyzed for VOCs, methane, ethane, ethene, acetylene, nitrate, chloride, sulfate, and/or dissolved organic carbon (DOC). Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC)

are discussed for each analytical method by media in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given,

"N" - presumptive evidence at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Soil boring and groundwater samples were analyzed for VOCs using the USEPA SW-846 8260B analytical method. Certain groundwater samples were analyzed for methane, ethane, ethene, and acetylene using the USEPA approved RSK-175 analytical method. Certain reported results for VOC samples were qualified as estimated based upon matrix spike/matrix spike duplicate (MS/MSD) recoveries and instrument calibrations. The reported VOC and methane, ethane, ethene, and acetylene analytical results were 100% complete (i.e., usable) for the project samples. PARCC requirements were met.

1.3.2 Semivolatile Organic Analysis

Surface soil samples were analyzed for SVOCs using the USEPA SW-846 8270C analytical method. Certain reported results for these samples were qualified as estimated based upon MS/MSD recoveries. The reported SVOC analytical results were 100% complete (i.e., usable) for the project samples. PARCC requirements were met.

1.3.3 Wet Chemistry Analyses

Certain groundwater samples were analyzed for nitrate using the USEPA 353.2 analytical method; chloride and sulfate using the USEPA SW-846 9056 analytical method; and DOC using the USEPA SW-846 9060 analytical method. All laboratory data for these samples were reviewed and evaluated for usability with respect to custody documentation, holding times, laboratory blanks, laboratory control sample accuracy, laboratory duplicate precision, matrix spike/matrix spike duplicate precision and accuracy, instrument calibrations, field duplicate precision, data completeness, sample data verification and identification, and quantitation limits. The reported results for these samples did not require qualification resulting from data validation. The reported analytical results for the wet chemistry samples were 100% complete with all data considered usable and valid for the data presented by TAL. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 SOIL

Data review has been completed for data packages generated by TAL containing soil samples collected from the site. Analytical results from these samples were contained within sample delivery groups (SDGs) 480-25932-1, 480-26264-1, and 480-26544-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A-1.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy and continuing calibrations as discussed below.

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable, within QC limits, and did not require qualification with the exception of the low MS/MSD accuracy results for 1,1-dichloroethane (72%R/67%R; QC limit 73-126%R), 1,2-dichlorobenzene (71%R/63%R; QC limit 75-120%R), benzene (72%R/65%R; QC limit 79-127%R), chlorobenzene (72%R/64%R; QC limit 76-124%R), cis-1,2-dichloroethene (75%R/69%R; QC limit 81-117%R), ethylbenzene (71%R/62%R; QC limit 80-120%R), tetrachloroethene (69%R/61%R; QC limit 74-122%R), toluene (71%R/62%R; QC limit 74-128%R), trans-1,2-dichloroethene (70%R/65%R; QC limit 78-126%R), and trichloroethene (70%R/62%R; QC limit 77-129%R) during the spiked analyses of sample MW-15-101012. Therefore, the results for these compounds were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected parent sample.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within $\pm$20% with the exception of dichlorodifluoromethane (22.5%D), carbon tetrachloride (21.4%D), and trichlorofluoromethane (21.4%D) in the continuing calibration associated with samples in SDG 480-26264-1. Therefore, the sample results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Usability

All volatile soil sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile soil data presented by TAL were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-1.

2.1.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination

- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy as discussed below.

MS/MSD Precision and Accuracy

All precision and accuracy measurements for designated spiked project samples were considered acceptable, within QC limits, and did not require qualification with the exception of the high accuracy results for pyrene (118%R/121%R; QC limit 49-116%R) and bis(2-ethylhexyl)phthalate (247%R/131%R; QC limit 49-119%R) during the spiked analyses of sample SS-05-09252012. The positive results for these compounds in the parent sample were considered estimated, possibly biased high, and qualified "J".

Usability

All semivolatile soil sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The semivolatile soil data presented by TAL were 100% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A-1.

2.2 GROUNDWATER SAMPLES

Data review has been completed for data packages generated by TAL containing analytical results from groundwater samples collected from the site. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical results from these samples were contained within SDGs 480-20453-1 and 480-28448-1. The validated laboratory data are presented in Attachment A-2.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.2.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and trip blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of continuing calibrations as discussed below.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum %D within ±20% with the exception of bromomethane (22.1%D) and chloroethane (27.5%D) in the continuing calibration associated with all samples collected on 5/23/12 except MW-8D-052312 and MW-5-052312; dichlorodifluoromethane (-20.8%D) in the continuing calibration associated with samples MW-8D-052312 and MW-5-052312; bromomethane (-43.1%D), chloroethane (-33.7%D), trichlorofluoromethane (46.1%D), 1,1,2-trichloro-1,2,2-trifluoroethane (-25.4%D), carbon disulfide (-20.8%D), and 1,2,4-trichlorobenzene (-34.4%D) in the continuing calibration associated with samples collected on 11/15/12; bromomethane (29.6%D), chloroethane (24.7%D), 4-methyl-2-pentanone (-24.4%D), and 2-hexanone (-20.4%D) in the continuing calibration associated with samples collected on 11/14/12; bromomethane (-21.6%D), trichlorofluoromethane (42.7%D), and bromoform (-28.5%D) in the continuing calibration associated with samples collected on 11/13/12 except MW-8D-111312; and trichorofluoromethane (60.1%D), cyclohexane (-35.2%D), and bromoform (-23.6%D) in the continuing calibration associated with sample MW-8D-111312. Therefore, the sample results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Usability

All groundwater volatile sample results were considered usable following data validation.

ATTACHMENT A

VALIDATED LABORATORY DATA

ATTACHMENT A-1

VALIDATED LABORATORY DATA FOR SOIL SAMPLES

NYSDEC-Temco Site 2012 Site Investigation Validated Surface Soil Analytical Data		Location ID:	SS-01	Dup of SS-01-09252012 SS-01	SS-02	SS-03
		Sample ID:	SS-01-09252012	SS-DUP1-09252012	SS-02-09252012	SS-03-09252012
		Matrix:	SO	SO	SO	SO
		SDG:	480259321	480259321	480259321	480259321
		Lab Sample Id:	480-25932-1	480-25932-7	480-25932-2	480-25932-3
		Sampled:	9/25/2012	9/25/2012	9/25/2012	9/25/2012
		Validated:	11/5/2012	11/5/2012	11/5/2012	11/5/2012
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES - Method SW8270C					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	200 U	200 U	240 U	210 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	200 U	200 U	240 U	210 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	200 U	200 U	240 U	210 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	200 U	200 U	240 U	210 U
51-28-5	2,4-DINITROPHENOL	ug/kg	400 U	390 U	470 U	410 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	200 U	200 U	240 U	210 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	200 U	200 U	240 U	210 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	200 U	200 U	240 U	210 U
95-57-8	2-CHLOROPHENOL	ug/kg	200 U	200 U	240 U	210 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	200 U	200 U	240 U	210 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	200 U	200 U	240 U	210 U
88-74-4	2-NITROANILINE	ug/kg	400 U	390 U	470 U	410 U
88-75-5	2-NITROPHENOL	ug/kg	200 U	200 U	240 U	210 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	200 U	200 U	240 U	210 U
99-09-2	3-NITROANILINE	ug/kg	400 U	390 U	470 U	410 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	400 U	390 U	470 U	410 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	200 U	200 U	240 U	210 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	200 U	200 U	240 U	210 U
106-47-8	4-CHLOROANILINE	ug/kg	200 U	200 U	240 U	210 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	200 U	200 U	240 U	210 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/kg	400 U	390 U	470 U	410 U
100-01-6	4-NITROANILINE	ug/kg	400 U	390 U	470 U	410 U
100-02-7	4-NITROPHENOL	ug/kg	400 U	390 U	470 U	410 U
83-32-9	ACENAPHTHENE	ug/kg	200 U	200 U	240 U	210 U
208-96-8	ACENAPHTHYLENE	ug/kg	200 U	200 U	240 U	210 U
98-86-2	ACETOPHENONE	ug/kg	200 U	200 U	240 U	210 U
120-12-7	ANTHRACENE	ug/kg	200 U	200 U	75 J	210 U
1912-24-9	ATRAZINE	ug/kg	200 U	200 U	240 U	210 U
100-52-7	BENZALDEHYDE	ug/kg	200 U	200 U	240 U	210 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	91 J	84 J	340	160 J
50-32-8	BENZO(A)PYRENE	ug/kg	160 J	120 J	430	170 J
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	210	130 J	550	230
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	210	120 J	310	170 J
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	89 J	70 J	260	84 J
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	200 U	110 J	97 J	210 U
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	200 U	200 U	240 U	210 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	200 U	200 U	240 U	210 U
111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHEI	ug/kg	200 U	200 U	240 U	210 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	200 U	200 U	240 U	210 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	310	230	730	200 J
105-60-2	CAPROLACTAM	ug/kg	200 U	200 U	240 U	210 U
86-74-8	CARBAZOLE	ug/kg	200 U	200 U	240 U	210 U
218-01-9	CHRYSENE	ug/kg	140 J	130 J	470	210
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	200 U	35 J	89 J	210 U
132-64-9	DIBENZOFURAN	ug/kg	200 U	200 U	240 U	210 U
84-66-2	DIETHYL PHTHALATE	ug/kg	200 U	200 U	240 U	210 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	200 U	200 U	240 U	210 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	200 U	200 U	540	210 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	200 U	200 U	240 U	210 U
206-44-0	FLUORANTHENE	ug/kg	120 J	140 J	640	300
86-73-7	FLUORENE	ug/kg	200 U	200 U	240 U	210 U
118-74-1	HEXACHLOROBENZENE	ug/kg	200 U	200 U	240 U	210 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	200 U	200 U	240 U	210 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	200 U	200 U	240 U	210 U
67-72-1	HEXACHLOROETHANE	ug/kg	200 U	200 U	240 U	210 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	200	120 J	310	160 J
78-59-1	ISOPHORONE	ug/kg	200 U	200 U	240 U	210 U
91-20-3	NAPHTHALENE	ug/kg	200 U	200 U	240 U	210 U
98-95-3	NITROBENZENE	ug/kg	200 U	200 U	240 U	210 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	200 U	200 U	240 U	210 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	200 U	200 U	240 U	210 U
87-86-5	PENTACHLOROPHENOL	ug/kg	400 U	390 U	470 U	410 U
85-01-8	PHENANTHRENE	ug/kg	200 U	64 J	250	160 J
108-95-2	PHENOL	ug/kg	200 U	200 U	240 U	210 U
129-00-0	PYRENE	ug/kg	200	160 J	580	400

NYSDEC-Temco Site 2012 Site Investigation Validated Surface Soil Analytical Data		Location ID:	SS-01	Dup of SS-01-09252012 SS-01	SS-02	SS-03
		Sample ID:	SS-01-09252012	SS-DUP1-09252012	SS-02-09252012	SS-03-09252012
		Matrix:	SO	SO	SO	SO
		SDG:	480259321	480259321	480259321	480259321
		Lab Sample Id:	480-25932-1	480-25932-7	480-25932-2	480-25932-3
		Sampled:	9/25/2012	9/25/2012	9/25/2012	9/25/2012
		Validated:	11/5/2012	11/5/2012	11/5/2012	11/5/2012
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs - Method SW8270C					
70-55-3	4-METHYLBENZENESULFONAMIDE	ug/kg				1300 JN
88-19-7	2-METHYLBENZENESULFONAMIDE	ug/kg				710 JN
UNKSV1	UNKNOWN SEMIVOLATILE WITH HIGHEST CONC.	ug/kg		1600 J	2300 J	4000 J
UNKSV10	UNKNOWN SEMIVOLATILE WITH 10TH HIGHEST CONC	ug/kg			1100 J	710 J
UNKSV11	UNKNOWN SEMIVOLATILE WITH 11TH HIGHEST CONC	ug/kg			890 J	690 J
UNKSV12	UNKNOWN SEMIVOLATILE WITH 12TH HIGHEST CONC	ug/kg			830 J	660 J
UNKSV13	UNKNOWN SEMIVOLATILE WITH 13TH HIGHEST CONC	ug/kg			770 J	530 J
UNKSV14	UNKNOWN SEMIVOLATILE WITH 14TH HIGHEST CONC	ug/kg			760 J	530 J
UNKSV15	UNKNOWN SEMIVOLATILE WITH 15TH HIGHEST CONC	ug/kg			750 J	440 J
UNKSV16	UNKNOWN SEMIVOLATILE WITH 16TH HIGHEST CONC	ug/kg			740 J	360 J
UNKSV17	UNKNOWN SEMIVOLATILE WITH 17TH HIGHEST CONC	ug/kg			680 J	
UNKSV18	UNKNOWN SEMIVOLATILE WITH 18TH HIGHEST CONC	ug/kg			640 J	
UNKSV19	UNKNOWN SEMIVOLATILE WITH 19TH HIGHEST CONC	ug/kg			520 J	
UNKSV2	UNKNOWN SEMIVOLATILE WITH 2ND HIGHEST CONC.	ug/kg		590 J	1700 J	3700 J
UNKSV20	UNKNOWN SEMIVOLATILE WITH 20TH HIGHEST CONC	ug/kg			480 J	
UNKSV3	UNKNOWN SEMIVOLATILE WITH 3RD HIGHEST CONC.	ug/kg		440 J	1600 J	1100 J
UNKSV4	UNKNOWN SEMIVOLATILE WITH 4TH HIGHEST CONC.	ug/kg		400 J	1400 J	1000 J
UNKSV5	UNKNOWN SEMIVOLATILE WITH 5TH HIGHEST CONC.	ug/kg		360 J	1300 J	880 J
UNKSV6	UNKNOWN SEMIVOLATILE WITH 6TH HIGHEST CONC.	ug/kg		340 J	1200 J	830 J
UNKSV7	UNKNOWN SEMIVOLATILE WITH 7TH HIGHEST CONC.	ug/kg		330 J	1200 J	830 J
UNKSV8	UNKNOWN SEMIVOLATILE WITH 8TH HIGHEST CONC.	ug/kg		330 J	1200 J	780 J
UNKSV9	UNKNOWN SEMIVOLATILE WITH 9TH HIGHEST CONC.	ug/kg			1200 J	760 J

NYSDEC-Temco Site 2012 Site Investigation Validated Surface Soil Analytical Data		Location ID: Sample ID: Matrix: SDG: Lab Sample Id: Sampled: Validated:	SS-04 SS-04-09252012 SO 480259321 480-25932-4 9/25/2012 11/5/2012	SS-05 SS-05-09252012 SO 480259321 480-25932-5 9/25/2012 11/5/2012	SS-06 SS-06-09252012 SO 480259321 480-25932-6 9/25/2012 11/5/2012
CAS NO.	COMPOUND	UNITS:			
	SEMIVOLATILES - Method SW8270C				
95-95-4	2,4,5-TRICHLOROPHENOL	ug/kg	200 U	190 U	200 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/kg	200 U	190 U	200 U
120-83-2	2,4-DICHLOROPHENOL	ug/kg	200 U	190 U	200 U
105-67-9	2,4-DIMETHYLPHENOL	ug/kg	200 U	190 U	200 U
51-28-5	2,4-DINITROPHENOL	ug/kg	390 U	380 U	390 U
121-14-2	2,4-DINITROTOLUENE	ug/kg	200 U	190 U	200 U
606-20-2	2,6-DINITROTOLUENE	ug/kg	200 U	190 U	200 U
91-58-7	2-CHLORONAPHTHALENE	ug/kg	200 U	190 U	200 U
95-57-8	2-CHLOROPHENOL	ug/kg	200 U	190 U	200 U
91-57-6	2-METHYLNAPHTHALENE	ug/kg	200 U	190 U	200 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/kg	200 U	190 U	200 U
88-74-4	2-NITROANILINE	ug/kg	390 U	380 U	390 U
88-75-5	2-NITROPHENOL	ug/kg	200 U	190 U	200 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/kg	200 U	190 U	200 U
99-09-2	3-NITROANILINE	ug/kg	390 U	380 U	390 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/kg	390 U	380 U	390 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/kg	200 U	190 U	200 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/kg	200 U	190 U	200 U
106-47-8	4-CHLOROANILINE	ug/kg	200 U	190 U	200 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/kg	200 U	190 U	200 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/kg	390 U	380 U	390 U
100-01-6	4-NITROANILINE	ug/kg	390 U	380 U	390 U
100-02-7	4-NITROPHENOL	ug/kg	390 U	380 U	390 U
83-32-9	ACENAPHTHENE	ug/kg	200 U	190 U	200 U
208-96-8	ACENAPHTHYLENE	ug/kg	51 J	190 U	200 U
98-86-2	ACETOPHENONE	ug/kg	200 U	190 U	200 U
120-12-7	ANTHRACENE	ug/kg	140 J	190 U	71 J
1912-24-9	ATRAZINE	ug/kg	200 U	190 U	200 U
100-52-7	BENZALDEHYDE	ug/kg	200 U	190 U	200 U
56-55-3	BENZO(A)ANTHRACENE	ug/kg	610	290	310
50-32-8	BENZO(A)PYRENE	ug/kg	700	410	340
205-99-2	BENZO(B)FLUORANTHENE	ug/kg	820	500	510
191-24-2	BENZO(G,H,I)PERYLENE	ug/kg	490	430	230
207-08-9	BENZO(K)FLUORANTHENE	ug/kg	360	210	220
85-68-7	BENZYL BUTYL PHTHALATE	ug/kg	200 U	370	91 J
92-52-4	BIPHENYL (DIPHENYL)	ug/kg	200 U	190 U	200 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/kg	200 U	190 U	200 U
111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHE	ug/kg	200 U	190 U	200 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/kg	200 U	190 U	200 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/kg	320	190 U	370
105-60-2	CAPROLACTAM	ug/kg	200 U	190 U	200 U
86-74-8	CARBAZOLE	ug/kg	93 J	190 U	200 U
218-01-9	CHRYSENE	ug/kg	680	360	400
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/kg	130 J	190 U	69 J
132-64-9	DIBENZOFURAN	ug/kg	200 U	190 U	200 U
84-66-2	DIETHYL PHTHALATE	ug/kg	200 U	190 U	200 U
131-11-3	DIMETHYL PHTHALATE	ug/kg	200 U	190 U	200 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/kg	200 U	190 U	98 J
117-84-0	DI-N-OCTYLPHTHALATE	ug/kg	200 U	190 U	200 U
206-44-0	FLUORANTHENE	ug/kg	1100	420	520
86-73-7	FLUORENE	ug/kg	200 U	190 U	200 U
118-74-1	HEXACHLOROBENZENE	ug/kg	200 U	190 U	200 U
87-68-3	HEXACHLOROBUTADIENE	ug/kg	200 U	190 U	200 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/kg	200 U	190 U	200 U
67-72-1	HEXACHLOROETHANE	ug/kg	200 U	190 U	200 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/kg	530	400	250
78-59-1	ISOPHORONE	ug/kg	200 U	190 U	200 U
91-20-3	NAPHTHALENE	ug/kg	200 U	190 U	200 U
98-95-3	NITROBENZENE	ug/kg	200 U	190 U	200 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/kg	200 U	190 U	200 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/kg	200 U	190 U	200 U
87-86-5	PENTACHLOROPHENOL	ug/kg	390 U	380 U	390 U
85-01-8	PHENANTHRENE	ug/kg	820	130 J	200
108-95-2	PHENOL	ug/kg	200 U	190 U	200 U
129-00-0	PYRENE	ug/kg	1200	590 J	470

NYSDEC-Temco Site 2012 Site Investigation Validated Surface Soil Analytical Data		Location ID: Sample ID: Matrix: SDG: Lab Sample Id: Sampled: Validated:	SS-04 SS-04-09252012 SO 480259321 480-25932-4 9/25/2012 11/5/2012	SS-05 SS-05-09252012 SO 480259321 480-25932-5 9/25/2012 11/5/2012	SS-06 SS-06-09252012 SO 480259321 480-25932-6 9/25/2012 11/5/2012
CAS NO.	COMPOUND	UNITS:			
	SEMIVOLATILE TICs - Method SW8270C				
70-55-3	4-METHYLBENZENESULFONAMIDE	ug/kg			
88-19-7	2-METHYLBENZENESULFONAMIDE	ug/kg			
UNKSV1	UNKNOWN SEMIVOLATILE WITH HIGHEST CONC.	ug/kg	1300 J	360 J	1400 J
UNKSV10	UNKNOWN SEMIVOLATILE WITH 10TH HIGHEST CONC	ug/kg			330 J
UNKSV11	UNKNOWN SEMIVOLATILE WITH 11TH HIGHEST CONC	ug/kg			320 J
UNKSV12	UNKNOWN SEMIVOLATILE WITH 12TH HIGHEST CONC	ug/kg			
UNKSV13	UNKNOWN SEMIVOLATILE WITH 13TH HIGHEST CONC	ug/kg			
UNKSV14	UNKNOWN SEMIVOLATILE WITH 14TH HIGHEST CONC	ug/kg			
UNKSV15	UNKNOWN SEMIVOLATILE WITH 15TH HIGHEST CONC	ug/kg			
UNKSV16	UNKNOWN SEMIVOLATILE WITH 16TH HIGHEST CONC	ug/kg			
UNKSV17	UNKNOWN SEMIVOLATILE WITH 17TH HIGHEST CONC	ug/kg			
UNKSV18	UNKNOWN SEMIVOLATILE WITH 18TH HIGHEST CONC	ug/kg			
UNKSV19	UNKNOWN SEMIVOLATILE WITH 19TH HIGHEST CONC	ug/kg			
UNKSV2	UNKNOWN SEMIVOLATILE WITH 2ND HIGHEST CONC.	ug/kg	1000 J	350 J	1300 J
UNKSV20	UNKNOWN SEMIVOLATILE WITH 20TH HIGHEST CONC	ug/kg			
UNKSV3	UNKNOWN SEMIVOLATILE WITH 3RD HIGHEST CONC.	ug/kg	710 J	330 J	870 J
UNKSV4	UNKNOWN SEMIVOLATILE WITH 4TH HIGHEST CONC.	ug/kg	630 J		840 J
UNKSV5	UNKNOWN SEMIVOLATILE WITH 5TH HIGHEST CONC.	ug/kg	610 J		700 J
UNKSV6	UNKNOWN SEMIVOLATILE WITH 6TH HIGHEST CONC.	ug/kg	590 J		590 J
UNKSV7	UNKNOWN SEMIVOLATILE WITH 7TH HIGHEST CONC.	ug/kg	500 J		520 J
UNKSV8	UNKNOWN SEMIVOLATILE WITH 8TH HIGHEST CONC.	ug/kg	430 J		380 J
UNKSV9	UNKNOWN SEMIVOLATILE WITH 9TH HIGHEST CONC.	ug/kg	400 J		340 J

NYSDEC-Temco Site 2012 Site Investigation Validated Soil Boring Analytical Data		MW-11 MW-11-101012 SO 480265441 480-26544-1 10/10/2012 11/5/2012	Dup of MW-11-101012 MW-11 FD-101012 SO 480265441 480-26544-2 10/10/2012 11/5/2012	MW-12 MW-12-100412 SO 480262641 480-26264-2 10/4/2012 11/5/2012	MW-13 MW-13-100512 SO 480262641 480-26264-3 10/5/2012 11/5/2012
CAS NO.	COMPOUND				
	VOLATILES - Method 8260B				
100-41-4	ETHYLBENZENE	5.9 U	5.8 U	5.4 U	6.5 U
100-42-5	STYRENE	5.9 U	5.8 U	5.4 U	6.5 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.9 U	5.8 U	5.4 U	6.5 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.9 U	5.8 U	5.4 U	6.5 U
106-46-7	1,4-DICHLOROBENZENE	5.9 U	5.8 U	5.4 U	6.5 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	5.9 U	5.8 U	5.4 U	6.5 U
107-06-2	1,2-DICHLOROETHANE	5.9 U	5.8 U	5.4 U	6.5 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	29 U	29 U	27 U	32 U
108-87-2	METHYLCYCLOHEXANE	5.9 U	5.8 U	5.4 U	6.5 U
108-88-3	TOLUENE	5.9 U	5.8 U	5.4 U	6.5 U
108-90-7	CHLOROBENZENE	5.9 U	5.8 U	5.4 U	6.5 U
110-82-7	CYCLOHEXANE	5.9 U	5.8 U	5.4 U	6.5 U
120-82-1	1,2,4-TRICHLOROBENZENE	5.9 U	5.8 U	5.4 U	6.5 U
124-48-1	DIBROMOCHLOROMETHANE	5.9 U	5.8 U	5.4 U	6.5 U
127-18-4	TETRACHLOROETHYLENE(PCE)	5.9 U	5.8 U	5.4 U	6.5 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	5.9 U	5.8 U	5.4 U	6.5 U
156-60-5	TRANS-1,2-DICHLOROETHENE	5.9 U	5.8 U	5.4 U	6.5 U
1634-04-4	TERT-BUTYL METHYL ETHER	5.9 U	5.8 U	5.4 U	6.5 U
541-73-1	1,3-DICHLOROBENZENE	5.9 U	5.8 U	5.4 U	6.5 U
56-23-5	CARBON TETRACHLORIDE	5.9 U	5.8 U	5.4 UJ	6.5 UJ
591-78-6	2-HEXANONE	29 U	29 U	27 U	32 U
67-64-1	ACETONE	29 U	29 U	27 U	32 U
67-66-3	CHLOROFORM	5.9 U	5.8 U	5.4 U	6.5 U
71-43-2	BENZENE	5.9 U	5.8 U	5.4 U	6.5 U
71-55-6	1,1,1-TRICHLOROETHANE	5.9 U	5.8 U	5.4 U	6.5 U
74-83-9	BROMOMETHANE	5.9 U	5.8 U	5.4 U	6.5 U
74-87-3	CHLOROMETHANE	5.9 U	5.8 U	5.4 U	6.5 U
75-00-3	CHLOROETHANE	5.9 U	5.8 U	5.4 U	6.5 U
75-01-4	VINYL CHLORIDE	5.9 U	5.8 U	5.4 U	6.5 U
75-09-2	METHYLENE CHLORIDE	5.9 U	5.8 U	5.4 U	6.5 U
75-15-0	CARBON DISULFIDE	5.9 U	5.8 U	5.4 U	6.5 U
75-25-2	BROMOFORM	5.9 U	5.8 U	5.4 U	6.5 U
75-27-4	BROMODICHLOROMETHANE	5.9 U	5.8 U	5.4 U	6.5 U
75-34-3	1,1-DICHLOROETHANE	5.9 U	5.8 U	5.4 U	6.5 U
75-35-4	1,1-DICHLOROETHENE	5.9 U	5.8 U	5.4 U	6.5 U
75-69-4	TRICHLOROFLUOROMETHANE	5.9 U	5.8 U	5.4 UJ	6.5 UJ
75-71-8	DICHLORODIFLUOROMETHANE	5.9 U	5.8 U	5.4 UJ	6.5 UJ
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5.9 U	5.8 U	5.4 U	6.5 U
78-87-5	1,2-DICHLOROPROPANE	5.9 U	5.8 U	5.4 U	6.5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	29 U	29 U	27 U	32 U
79-00-5	1,1,2-TRICHLOROETHANE	5.9 U	5.8 U	5.4 U	6.5 U
79-01-6	TRICHLOROETHYLENE (TCE)	5.9 U	5.8 U	5.4 U	6.5 U
79-20-9	METHYL ACETATE	5.9 U	5.8 U	5.4 U	6.5 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.9 U	5.8 U	5.4 U	6.5 U
95-50-1	1,2-DICHLOROBENZENE	5.9 U	5.8 U	5.4 U	6.5 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	5.9 U	5.8 U	5.4 U	6.5 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	5.9 U	5.8 U	5.4 U	6.5 U
XYLENES	XYLENES, TOTAL	12 U	12 U	11 U	13 U
	VOLATILE TICs				
581-40-8	2,3-DIMETHYL NAPHTHALENE	15 JN			

NYSDEC-Temco Site 2012 Site Investigation Validated Soil Boring Analytical Data		MW-14 MW-14-100312 SO 480262641 480-26264-1 10/3/2012 11/5/2012	MW-15 MW-15-101112 SO 480265441 480-26544-3 10/11/2012 11/5/2012
CAS NO.	COMPOUND		
	VOLATILES - Method 8260B		
100-41-4	ETHYLBENZENE	6.2 U	5.2 UJ
100-42-5	STYRENE	6.2 U	5.2 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	6.2 U	5.2 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	6.2 U	5.2 U
106-46-7	1,4-DICHLOROBENZENE	6.2 U	5.2 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	6.2 U	5.2 U
107-06-2	1,2-DICHLOROETHANE	6.2 U	5.2 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	31 U	26 U
108-87-2	METHYLCYCLOHEXANE	6.2 U	5.2 U
108-88-3	TOLUENE	6.2 U	5.2 UJ
108-90-7	CHLOROBENZENE	6.2 U	5.2 UJ
110-82-7	CYCLOHEXANE	6.2 U	5.2 U
120-82-1	1,2,4-TRICHLOROBENZENE	6.2 U	5.2 U
124-48-1	DIBROMOCHLOROMETHANE	6.2 U	5.2 U
127-18-4	TETRACHLOROETHYLENE(PCE)	0.85 J	5.2 UJ
156-59-2	CIS-1,2-DICHLOROETHYLENE	6.2 U	5.2 UJ
156-60-5	TRANS-1,2-DICHLOROETHENE	6.2 U	5.2 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	6.2 U	5.2 U
541-73-1	1,3-DICHLOROBENZENE	6.2 U	5.2 U
56-23-5	CARBON TETRACHLORIDE	6.2 UJ	5.2 U
591-78-6	2-HEXANONE	31 U	26 U
67-64-1	ACETONE	31 U	26 U
67-66-3	CHLOROFORM	6.2 U	5.2 U
71-43-2	BENZENE	6.2 U	5.2 UJ
71-55-6	1,1,1-TRICHLOROETHANE	6.2 U	5.2 U
74-83-9	BROMOMETHANE	6.2 U	5.2 U
74-87-3	CHLOROMETHANE	6.2 U	5.2 U
75-00-3	CHLOROETHANE	6.2 U	5.2 U
75-01-4	VINYL CHLORIDE	6.2 U	5.2 U
75-09-2	METHYLENE CHLORIDE	6.2 U	5.2 U
75-15-0	CARBON DISULFIDE	6.2 U	5.2 U
75-25-2	BROMOFORM	6.2 U	5.2 U
75-27-4	BROMODICHLOROMETHANE	6.2 U	5.2 U
75-34-3	1,1-DICHLOROETHANE	6.2 U	5.2 UJ
75-35-4	1,1-DICHLOROETHENE	6.2 U	5.2 U
75-69-4	TRICHLOROFLUOROMETHANE	6.2 UJ	5.2 U
75-71-8	DICHLORODIFLUOROMETHANE	6.2 UJ	5.2 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	6.2 U	5.2 U
78-87-5	1,2-DICHLOROPROPANE	6.2 U	5.2 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	31 U	26 U
79-00-5	1,1,2-TRICHLOROETHANE	6.2 U	5.2 U
79-01-6	TRICHLOROETHYLENE (TCE)	6.2 U	5.2 UJ
79-20-9	METHYL ACETATE	6.2 U	5.2 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	6.2 U	5.2 U
95-50-1	1,2-DICHLOROBENZENE	6.2 U	5.2 UJ
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	6.2 U	5.2 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	6.2 U	5.2 U
XYLENES	XYLENES, TOTAL	12 U	10 U
	VOLATILE TICs		
581-40-8	2,3-DIMETHYL NAPHTHALENE		

ATTACHMENT A-2

VALIDATED LABORATORY DATA FOR GROUNDWATER SAMPLES

NYSDEC-Temco Site 2012 Site Investigation Validated Groundwater Analytical Data Step 1 - Existing Wells		Location ID: Sample ID: Matrix: SDG: Lab Sample Id: Sampled: Validated:	MW-1 MW-1-052312 WG 480204531 480-20453-1 5/23/2012 6/25/2012	MW-3 MW-3-052312 WG 480204531 480-20453-2 5/23/2012 6/25/2012	MW-5 FD-052312 WG 480204531 480-20453-8 5/23/2012 6/25/2012	MW-5 MW-5-052312 WG 480204531 480-20453-3 5/23/2012 6/25/2012
CAS NO.	COMPOUND	UNITS:				
	VOLATILES - Method SW8260B					
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	10 U	10 U	10 U	10 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 UJ	1 UJ	1 UJ	1 U
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 UJ	1 UJ	1 UJ	1 U
67-66-3	CHLOROFORM	ug/l	2.2	6.2	34	32
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 UJ
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/l	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U	220	3.3	3.2
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U	2 U	2 U	2 U
	VOLATILE TICs - Method SW8260B					
1000221-67-3	PROPANOIC ACID, 2-METHYL-, TERT-BUTYLDIM	ug/l				

NYSDEC-Temco Site 2012 Site Investigation Validated Groundwater Analytical Data Step 1 - Existing Wells		Location ID: Sample ID: Matrix: SDG: Lab Sample Id: Sampled: Validated:	MW-8S MW-8S-052312 WG 480204531 480-20453-4 5/23/2012 6/25/2012	MW-8D MW-8D-052312 WG 480204531 480-20453-5 5/23/2012 6/25/2012	MW-10S MW-10S-052312 WG 480204531 480-20453-6 5/23/2012 6/25/2012	MW-10D MW-10D-052312 WG 480204531 480-20453-7 5/23/2012 6/25/2012
CAS NO.	COMPOUND	UNITS:				
	VOLATILES - Method SW8260B					
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	10 U	10 U	10 U	10 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 UJ	1 U	1 UJ	1 UJ
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 UJ	1 U	1 UJ	1 UJ
67-66-3	CHLOROFORM	ug/l	1 U	31	1 U	33
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 UJ	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/l	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/l	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	280	14	4.9	34
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U	2 U	2 U	2 U
	VOLATILE TICs - Method SW8260B					
1000221-67-3	PROPANOIC ACID, 2-METHYL-, TERT-BUTYLDIM	ug/l			2.7 JN	

NYSDEC-Temco Site 2012 Site Investigation Validated Groundwater Analytical Data Step 1 - Existing Wells		Location ID: Sample ID: Matrix: SDG: Lab Sample Id: Sampled: Validated:	FIELDQC TB_05/23/12 WQ 480204531 480-20453-9 5/23/2012 6/25/2012
CAS NO.	COMPOUND	UNITS:	
	VOLATILES - Method SW8260B		
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U
591-78-6	2-HEXANONE	ug/l	5 U
67-64-1	ACETONE	ug/l	10 U
71-43-2	BENZENE	ug/l	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U
75-25-2	BROMOFORM	ug/l	1 U
74-83-9	BROMOMETHANE	ug/l	1 UJ
75-15-0	CARBON DISULFIDE	ug/l	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U
75-00-3	CHLOROETHANE	ug/l	1 UJ
67-66-3	CHLOROFORM	ug/l	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U
79-20-9	METHYL ACETATE	ug/l	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/l	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U
100-42-5	STYRENE	ug/l	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U
108-88-3	TOLUENE	ug/l	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U
	VOLATILE TICs - Method SW8260B		
1000221-67-3	PROPANOIC ACID, 2-METHYL-, TERT-BUTYLDIM	ug/l	

NYSDEC-Temco Site 2012 Site Investigation Validated Groundwater Analytical Data Step 2		MW_1 MW_1_111312 WATER 480284481 480-28448-1 11/13/2012 12/20/2012	MW_3 MW_3_111312 WATER 480284481 480-28448-3 11/13/2012 12/20/2012	MW_8D MW_8D_111312 WATER 480284481 480-28448-5 11/13/2012 12/20/2012	MW_8S MW_8S_111312 WATER 480284481 480-28448-4 11/13/2012 12/20/2012	MW_10D MW_10D_111312 WATER 480284481 480-28448-2 11/13/2012 12/20/2012
CAS NO.	COMPOUND					
	VOLATILES- Method 8260B					
71-55-6	1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1 U	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1 U	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	1 U	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	5 U	5 U	5 U	5 U	5 U
67-64-1	ACETONE	10 U	10 U	10 U	10 U	10 U
71-43-2	BENZENE	1 U	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	1 U	1 U	0.48 J	1 U	1 U
75-25-2	BROMOFORM	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
74-83-9	BROMOMETHANE	1 UJ	1 UJ	1 U	1 UJ	1 UJ
75-15-0	CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	1 U	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	0.4 J	3.1	38	0.82 J	23
74-87-3	CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	1 U	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	1 U	1 U	1 UJ	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	1 U	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	1 U	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	10 U	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	5 U	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	1 U	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	1 U	1 U	1 U	1 U	1 U
100-42-5	STYRENE	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	1 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	1 U	300	24	350	29
108-88-3	TOLUENE	1 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	1 U	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
75-01-4	VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	2 U	2 U	2 U	2 U	2 U
	RSK 175					
74-84-0	ETHANE					
74-85-1	ETHENE					
74-82-8	METHANE					
74-86-2	ACETYLENE					
	OTHER					
16887-00-6	CHLORIDE (AS CL)					
14797-55-8	NITROGEN, NITRATE (AS N)					
14808-79-8	SULFATE (AS SO4)					
DOC	DISSOLVED ORGANIC CARBON					

NYSDEC-Temco Site 2012 Site Investigation Validated Groundwater Analytical Data Step 2		MW-11 MW-11_111512 WATER 480284481 480-28615-1 11/15/2012 12/20/2012	MW-12 MW-12-111412 WATER 480284481 480-28509-1 11/14/2012 12/20/2012	MW-13 MW-13-111412 WATER 480284481 480-28509-2 11/14/2012 12/20/2012	MW-14 MW-14-111412 WATER 480284481 480-28509-3 11/14/2012 12/20/2012	Dup of MW-14 MW-14 DUP-111412 WATER 480284481 480-28509-5 11/14/2012 12/20/2012
CAS NO.	COMPOUND					
	VOLATILES- Method 8260B					
71-55-6	1,1,1-TRICHLOROETHANE	4 U	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	4 U	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	4 UJ	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	4 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	4 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	4 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	4 UJ	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	4 U	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	4 U	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	4 U	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	4 U	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	4 U	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	4 U	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	4 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	20 U	5 UJ	5 UJ	5 UJ	5 UJ
67-64-1	ACETONE	40 U	10 U	10 U	10 U	10 U
71-43-2	BENZENE	4 U	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	4.4	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	4 U	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	4 UJ	1 UJ	1 UJ	1 UJ	1 UJ
75-15-0	CARBON DISULFIDE	4 UJ	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	4 U	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	4 U	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	4 UJ	1 UJ	1 UJ	1 UJ	1 UJ
67-66-3	CHLOROFORM	36	1	1.5	11	9.4
74-87-3	CHLOROMETHANE	4 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	4 U	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	4 U	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	4 U	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	2.8 J	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	4 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	4 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	4 U	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	4 U	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	40 U	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	20 U	5 UJ	5 UJ	5 UJ	5 UJ
108-87-2	METHYLCYCLOHEXANE	4 U	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	4 U	1 U	1 U	1 U	1 U
100-42-5	STYRENE	4 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	4 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	4 U	2	7.3	75	79
108-88-3	TOLUENE	4 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	4 U	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	4 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	4 U	1 U	1 U	0.96 J	0.97 J
75-69-4	TRICHLOROFLUOROMETHANE	4 UJ	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	4 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	8 U	1.1 J	2 U	2 U	2 U
	RSK 175					
74-84-0	ETHANE	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
74-85-1	ETHENE	7 U	7 U	7 U	7 U	7 U
74-82-8	METHANE	2.6 J	4 U	4 U	4 U	4 U
74-86-2	ACETYLENE	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U
	OTHER					
16887-00-6	CHLORIDE (AS CL)	144	100	90.5	56.2	55.9
14797-55-8	NITROGEN, NITRATE (AS N)	0.76	3.9	4.3	3.2	3.4
14808-79-8	SULFATE (AS SO4)	49.8	23.9	17.2	30.5	30.3
DOC	DISSOLVED ORGANIC CARBON	1.1	1 U	1 U	1 U	1 U

NYSDEC-Temco Site 2012 Site Investigation Validated Groundwater Analytical Data Step 2		MW-15 MW-15-111412 WATER 480284481 480-28509-4 11/14/2012 12/20/2012	FIELDQC TRIP BLANK WATER 480284481 480-28448-6 11/13/2012 12/20/2012	FIELDQC TRIP BLANK WATER 480284481 480-28615-2 11/15/2012 12/20/2012	FIELDQC TRIP BLANKS WATER 480284481 480-28509-6 11/14/2012 12/20/2012
CAS NO.	COMPOUND				
	VOLATILES- Method 8260B				
71-55-6	1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1 U	1 U	1 UJ	1 U
79-00-5	1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	1 U	1 U	1 UJ	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	5 UJ	5 U	5 U	5 UJ
67-64-1	ACETONE	10 U	10 U	10 U	10 U
71-43-2	BENZENE	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	0.81 J	1 U	1 U	1 U
75-25-2	BROMOFORM	1 U	1 UJ	1 U	1 U
74-83-9	BROMOMETHANE	1 UJ	1 UJ	1 UJ	1 UJ
75-15-0	CARBON DISULFIDE	1 U	1 U	1 UJ	1 U
56-23-5	CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	1 UJ	1 U	1 UJ	1 UJ
67-66-3	CHLOROFORM	26	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	5 UJ	5 U	5 U	5 UJ
108-87-2	METHYLCYCLOHEXANE	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	1 U	1 U	1 U	1 U
100-42-5	STYRENE	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	14	1 U	1 U	1 U
108-88-3	TOLUENE	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	1 U	1 UJ	1 UJ	1 U
75-01-4	VINYL CHLORIDE	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	2 U	2 U	2 U	2 U
	RSK 175				
74-84-0	ETHANE	7.5 U			
74-85-1	ETHENE	7 U			
74-82-8	METHANE	4 U			
74-86-2	ACETYLENE	6.5 U			
	OTHER				
16887-00-6	CHLORIDE (AS CL)	166			
14797-55-8	NITROGEN, NITRATE (AS N)	6.2			
14808-79-8	SULFATE (AS SO4)	29.1			
DOC	DISSOLVED ORGANIC CARBON	1 U			

APPENDIX D

DATA USABILITY SUMMARY REPORT FOR 2015 – 2016 SOIL AND GROUNDWATER SAMPLING

DATA USABILITY SUMMARY REPORT

FORMER TEMCO UNIFORMS SITE

2015-2016 SOIL AND GROUNDWATER SAMPLING

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DECEMBER 2016

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LIST OF ATTACHMENTS

SECTION 1

DATA USABILITY SUMMARY

Soil and groundwater samples were collected from the Former Temco Uniforms site in West Haverstraw, New York from December 2, 2015 through September 1, 2016. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The analytical laboratories for this project were Test America Laboratories (TAL) in Buffalo, New York. This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 6-13 days for the project samples.

The data packages received from TAL were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized by sample media in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at TAL within one to two days of sampling. All samples were received intact and in good condition at the laboratory.

1.3 LABORATORY ANALYTICAL METHODS

The soil and groundwater samples that were collected from the site were analyzed for volatile organic compounds (VOCs). Summaries of issues concerning this laboratory analysis are presented in Subsection 1.3.1. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method by media in Section 2. The laboratory data was reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given,

"J+" - estimated biased high at the value given,

"J-" - estimated biased low at the value given,

"N" - presumptive evidence at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Soil and groundwater samples were analyzed for VOCs using the USEPA SW-846 8260C analytical method. Certain reported results for VOC samples were qualified as estimated based upon incorrect field sampling techniques and instrument calibrations. The reported VOC analytical results were 100% complete (i.e., usable) for the project samples. PARCCS requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 SOIL SAMPLES

Data review has been completed for data packages generated by TAL containing soil samples collected from the site. Analytical results from these samples were contained within sample delivery groups (SDGs) 480-92048-1, 480-105250-1, and 480-105324-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A-1.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy, LCS recoveries, blank contamination, and continuing calibrations as discussed below.

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable and within QC limits with the exception of the many precision and accuracy outliers during the spiked analyses of sample MW-17 (24-26); the low MS/MSD accuracy results for 1,1,2,2-tetrachloroethane (73%R/72%R; QC limit 80-120%R), 2-butanone (61%R/60%R; QC limit 70-134%R), and acetone (59%R – MS; QC limit 61-137%R) during the spiked analyses of sample SB-29-08302016-8.5-9; and the low MS/MSD accuracy results for 1,1,2,2-tetrachloroethane (76%R/69%R; QC limit 80-120%R) and 2-butanone (66%R/61%R; QC limit 70-134%R) during the spiked analyses of sample SB-28-08312016-12.5-13. Validation qualification of these parent samples was not required.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the high LCS recovery for 2-butanone (166%R; QC limit 70-134%R) associated with samples MW-16 (28-30) and DUP-120315. Validation qualification was not required for these samples since 2-butanone was not detected.

Blank Contamination

The laboratory method blank associated with sample MW-16 (28-30) and DUP-120315 contained 1,2,4-trichlorobenzene and acetone below the reporting limit at concentrations of 0.39 and 6.86 µg/kg, respectively; and the laboratory method blank associated with sample MW-17 (24-26) contained 1,2,4-trichlorobenzene, acetone, and tetrachloroethene below the reporting limits at concentrations of 0.359, 8.83, and 0.725 µg/kg, respectively. Therefore, sample results for these compounds less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within ±20% with the exception of bromomethane (23.6%D) in the continuing calibration associated with samples MW-16 (28-30) and DUP-120315; and carbon tetrachloride (23.9%D) in the continuing calibration associated with samples SB-29-08302016-8.5-9 and SB-33-08312016-9.5-10. Therefore, the sample results for these compounds which were nondetects were considered estimated and qualified "UJ" for the affected samples.

Usability

All volatile soil sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile soil data presented

by TAL were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-1.

It was noted that all soil samples collected on 8/30/16 and 8/31/16 were sampled incorrectly. These samples were analyzed using sample from the bulk VOC containers since the TerraCore sample containers were overfilled. Therefore, all results with concentrations less than 200 ppb were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for these samples.

2.2 GROUNDWATER SAMPLES

Data review has been completed for data packages generated by TAL containing analytical results from groundwater samples collected from the site. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical results from these samples were contained within SDGs 480-105253-1 and 480-105400-1. The validated laboratory data are presented in Attachment A-2.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.2.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and trip blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy, blank contamination, and continuing calibrations as discussed below.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the high MS/MSD accuracy results for 2-hexanone (128%R – MS; QC limit 65-127%R), chloroethane (169%R – MS; QC limit 69-136%R), chloromethane (138%R/139%R; QC limit 68-124%R), tetrachloroethene (127%R – MS; QC limit 74-122%R), and vinyl chloride (145%R/140%R; QC limit 65-133%R) during the spiked analyses of sample MW-16-083116. Validation qualification of this parent sample was not required.

Blank Contamination

The field QC blank FB-090116 associated with samples in SDG 480-105400-1 contained bromodichloromethane, dibromochloromethane, chloroform, and tetrachloroethene at concentrations of 3.7, 1.9, 12, and 0.37 µg/L, respectively. Therefore, results for these compounds less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum %D within ±20% with the exception of acetone (42.6%D) in the continuing calibration associated with all samples in SDG 480-105253-1 except sample MW-10S-082916; and bromomethane (20.5%D) in the continuing calibration associated with samples in SDG 480-105400-1. Therefore, the sample results for these compounds which were nondetects were considered estimated and qualified "UJ" for the affected samples.

Usability

All groundwater volatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile groundwater data presented by TAL were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-2.

ATTACHMENT A

VALIDATED LABORATORY DATA

ATTACHMENT A-1

VALIDATED LABORATORY DATA FOR SOIL SAMPLES

NYSDEC-Temco Site 2015 Site Investigation Validated Soil Analytical Data SDG: 480-92048		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-16 MW-16(28-30)-20151203 480-92137-1 TALBUFF 92048 SOIL 12/3/2015 9:40 2/26/2016	MW-16 DUP-120315-20151203 480-92137-2 TALBUFF 92048 SOIL 12/3/2015 12:01 2/26/2016	MW-17 MW-17 (24-26)-20151202 480-92048-1 TALBUFF 92048 SOIL 12/2/2015 9:10 2/26/2016
			Dup of MW-16(28-30)-20151203		
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	4 U	4.4 U	4.6 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	4 U	4.4 U	4.6 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	4 U	4.4 U	4.6 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	4 U	4.4 U	4.6 U
75-34-3	1,1-DICHLOROETHANE	ug/kg	4 U	4.4 U	4.6 U
75-35-4	1,1-DICHLOROETHENE	ug/kg	4 U	4.4 U	4.6 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	4 U	4.4 U	4.6 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	4 U	4.4 U	4.6 U
106-93-4	1,2-DIBROMOETHANE	ug/kg	4 U	4.4 U	4.6 U
95-50-1	1,2-DICHLOROBENZENE	ug/kg	4 U	4.4 U	4.6 U
107-06-2	1,2-DICHLOROETHANE	ug/kg	4 U	4.4 U	4.6 U
78-87-5	1,2-DICHLOROPROPANE	ug/kg	4 U	4.4 U	4.6 U
541-73-1	1,3-DICHLOROBENZENE	ug/kg	4 U	4.4 U	4.6 U
106-46-7	1,4-DICHLOROBENZENE	ug/kg	4 U	4.4 U	4.6 U
591-78-6	2-HEXANONE	ug/kg	20 U	22 U	23 U
67-64-1	ACETONE	ug/kg	20 U	22 U	23 U
71-43-2	BENZENE	ug/kg	4 U	4.4 U	4.6 U
75-27-4	BROMODICHLOROMETHANE	ug/kg	4 U	4.4 U	4.6 U
75-25-2	BROMOFORM	ug/kg	4 U	4.4 U	4.6 U
74-83-9	BROMOMETHANE	ug/kg	4 UJ	4.4 UJ	4.6 U
75-15-0	CARBON DISULFIDE	ug/kg	4 U	4.4 U	4.6 U
56-23-5	CARBON TETRACHLORIDE	ug/kg	4 U	4.4 U	4.6 U
108-90-7	CHLOROBENZENE	ug/kg	4 U	4.4 U	4.6 U
75-00-3	CHLOROETHANE	ug/kg	4 U	4.4 U	4.6 U
67-66-3	CHLOROFORM	ug/kg	4 U	4.4 U	4.6 U
74-87-3	CHLOROMETHANE	ug/kg	4 U	4.4 U	4.6 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	4 U	4.4 U	4.6 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	4 U	4.4 U	4.6 U
110-82-7	CYCLOHEXANE	ug/kg	4 U	4.4 U	4.6 U
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	4 U	4.4 U	4.6 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	4 U	4.4 U	4.6 U
100-41-4	ETHYLBENZENE	ug/kg	4 U	4.4 U	4.6 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	4 U	4.4 U	4.6 U
79-20-9	METHYL ACETATE	ug/kg	4 U	4.4 U	4.6 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	20 U	22 U	23 U
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	20 U	22 U	23 U
108-87-2	METHYLCYCLOHEXANE	ug/kg	4 U	4.4 U	4.6 U
75-09-2	METHYLENE CHLORIDE	ug/kg	4 U	4.4 U	4.6 U
100-42-5	STYRENE	ug/kg	4 U	4.4 U	4.6 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	4 U	4.4 U	4.6 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	9.1	9.1	4.6 U
108-88-3	TOLUENE	ug/kg	4 U	0.5 J	4.6 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	4 U	4.4 U	4.6 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	4 U	4.4 U	4.6 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	4 U	4.4 U	4.6 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	4 U	4.4 U	4.6 U
75-01-4	VINYL CHLORIDE	ug/kg	4 U	4.4 U	4.6 U
XYLENES	XYLENES, TOTAL	ug/kg	7.9 U	8.9 U	9.1 U

						Dup of SB-28-08312016-12.5-13
NYSDEC-Temco Site		Location ID:	SB-27	SB-28	SB-28	SB-28
2016 Site Investigation		Depth:	16.5 - 17 ft	5.5 - 6 ft	12.5-13 ft	12.5-13 ft
Validated Soil Analytical Data		Sample ID:	SB-27-08302016-16.5-17	SB-28-08312016-5.5-6	SB-28-08312016-12.5-13	SB-28-08312016-12.5-13-DUP
SDGs: 480-105250 and 480-105324		Lab Sample Id:	480-105250-2	480-105324-1	480-105324-2	480-105324-3
		Source:	TALBUFF	TALBUFF	TALBUFF	TALBUFF
		SDG:	4801052501	4801053241	4801053241	4801053241
		Matrix:	SOIL	SOIL	SOIL	SOIL
		Sampled:	8/30/2016 14:53	8/31/2016 8:10	8/31/2016 8:22	8/31/2016 8:22
		Validated:	10/17/2016	10/17/2016	10/17/2016	10/17/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-34-3	1,1-DICHLOROETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-35-4	1,1-DICHLOROETHENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
106-93-4	1,2-DIBROMOETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
95-50-1	1,2-DICHLOROBENZENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
107-06-2	1,2-DICHLOROETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
78-87-5	1,2-DICHLOROPROPANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
541-73-1	1,3-DICHLOROBENZENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
106-46-7	1,4-DICHLOROBENZENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
591-78-6	2-HEXANONE	ug/kg	26 UJ	26 UJ	26 UJ	25 UJ
67-64-1	ACETONE	ug/kg	26 UJ	26 UJ	26 UJ	25 UJ
71-43-2	BENZENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-27-4	BROMODICHLOROMETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-25-2	BROMOFORM	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
74-83-9	BROMOMETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-15-0	CARBON DISULFIDE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
56-23-5	CARBON TETRACHLORIDE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
108-90-7	CHLOROBENZENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-00-3	CHLOROETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
67-66-3	CHLOROFORM	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
74-87-3	CHLOROMETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
110-82-7	CYCLOHEXANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
100-41-4	ETHYLBENZENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
79-20-9	METHYL ACETATE	ug/kg	26 UJ	26 UJ	26 UJ	25 UJ
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	26 UJ	26 UJ	26 UJ	25 UJ
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	26 UJ	26 UJ	26 UJ	25 UJ
108-87-2	METHYLCYCLOHEXANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-09-2	METHYLENE CHLORIDE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
100-42-5	STYRENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	9.8 J-	5.1 UJ	1.9 J	2.8 J
108-88-3	TOLUENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
75-01-4	VINYL CHLORIDE	ug/kg	5.1 UJ	5.1 UJ	5.1 UJ	5.1 UJ
XYLENES	XYLENES, TOTAL	ug/kg	10 UJ	10 UJ	10 UJ	10 UJ

NYSDEC-Temco Site 2016 Site Investigation Validated Soil Analytical Data SDGs: 480-105250 and 480-105324		Location ID: Depth: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	SB-29 8.5 - 9 ft SB-29-08302016-8.5-9 480-105250-3 TALBUFF 4801052501 SOIL 8/30/2016 15:11 10/17/2016	SB-29 14.5 - 15 ft SB-29-08302016-14.5-15 480-105250-4 TALBUFF 4801052501 SOIL 8/30/2016 15:18 10/17/2016	SB-30 5.5 - 6 ft SB-30-08312016-5.5-6 480-105324-10 TALBUFF 4801053241 SOIL 8/31/2016 12:09 10/17/2016	SB-30 18 - 18.5 ft SB-30-08312016-18-18.5 480-105324-11 TALBUFF 4801053241 SOIL 8/31/2016 12:55 10/17/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-34-3	1,1-DICHLOROETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-35-4	1,1-DICHLOROETHENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
106-93-4	1,2-DIBROMOETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
95-50-1	1,2-DICHLOROBENZENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
107-06-2	1,2-DICHLOROETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
78-87-5	1,2-DICHLOROPROPANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
541-73-1	1,3-DICHLOROBENZENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
106-46-7	1,4-DICHLOROBENZENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
591-78-6	2-HEXANONE	ug/kg	27 UJ	27 UJ	26 UJ	25 UJ
67-64-1	ACETONE	ug/kg	27 UJ	27 UJ	26 UJ	25 UJ
71-43-2	BENZENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-27-4	BROMODICHLOROMETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-25-2	BROMOFORM	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
74-83-9	BROMOMETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-15-0	CARBON DISULFIDE	ug/kg	5.4 UJ	5.4 UJ	4 J	5 UJ
56-23-5	CARBON TETRACHLORIDE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
108-90-7	CHLOROBENZENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-00-3	CHLOROETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
67-66-3	CHLOROFORM	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
74-87-3	CHLOROMETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
110-82-7	CYCLOHEXANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
100-41-4	ETHYLBENZENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
79-20-9	METHYL ACETATE	ug/kg	27 UJ	27 UJ	26 UJ	25 UJ
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	27 UJ	27 UJ	26 UJ	25 UJ
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	27 UJ	27 UJ	26 UJ	25 UJ
108-87-2	METHYLCYCLOHEXANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-09-2	METHYLENE CHLORIDE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
100-42-5	STYRENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	10 J-	12 J-	2.2 J	3.2 J
108-88-3	TOLUENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
75-01-4	VINYL CHLORIDE	ug/kg	5.4 UJ	5.4 UJ	5.1 UJ	5 UJ
XYLENES	XYLENES, TOTAL	ug/kg	11 UJ	11 UJ	10 UJ	10 UJ

NYSDEC-Temco Site 2016 Site Investigation Validated Soil Analytical Data SDGs: 480-105250 and 480-105324		Location ID: Depth: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	SB-31 5.5 - 6 ft SB-31-08312016-5.5-6 480-105324-6 TALBUFF 4801053241 SOIL 8/31/2016 10:25 10/17/2016	SB-31 18 - 18.5 ft SB-31-08312016-18-18.5 480-105324-7 TALBUFF 4801053241 SOIL 8/31/2016 10:55 10/17/2016	SB-32 5.5 - 6 ft SB-32-08312016-5.5-6 480-105324-8 TALBUFF 4801053241 SOIL 8/31/2016 11:28 10/17/2016	SB-32 18 - 18.5 ft SB-32-08312016-18-18.5 480-105324-9 TALBUFF 4801053241 SOIL 8/31/2016 11:50 10/17/2016
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-34-3	1,1-DICHLOROETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-35-4	1,1-DICHLOROETHENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
106-93-4	1,2-DIBROMOETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
95-50-1	1,2-DICHLOROBENZENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
107-06-2	1,2-DICHLOROETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
78-87-5	1,2-DICHLOROPROPANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
541-73-1	1,3-DICHLOROBENZENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
106-46-7	1,4-DICHLOROBENZENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
591-78-6	2-HEXANONE	ug/kg	25 UJ	26 UJ	26 UJ	27 UJ
67-64-1	ACETONE	ug/kg	25 UJ	26 UJ	26 UJ	27 UJ
71-43-2	BENZENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-27-4	BROMODICHLOROMETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-25-2	BROMOFORM	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
74-83-9	BROMOMETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-15-0	CARBON DISULFIDE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
56-23-5	CARBON TETRACHLORIDE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
108-90-7	CHLOROBENZENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-00-3	CHLOROETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
67-66-3	CHLOROFORM	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
74-87-3	CHLOROMETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
110-82-7	CYCLOHEXANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
100-41-4	ETHYLBENZENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
79-20-9	METHYL ACETATE	ug/kg	25 UJ	26 UJ	26 UJ	27 UJ
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	25 UJ	26 UJ	26 UJ	27 UJ
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	25 UJ	26 UJ	26 UJ	27 UJ
108-87-2	METHYLCYCLOHEXANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-09-2	METHYLENE CHLORIDE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
100-42-5	STYRENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	1.1 J	1.8 J	5.1 UJ	2.1 J
108-88-3	TOLUENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
75-01-4	VINYL CHLORIDE	ug/kg	5.1 UJ	5.3 UJ	5.1 UJ	5.4 UJ
XYLENES	XYLENES, TOTAL	ug/kg	10 UJ	11 UJ	10 UJ	11 UJ

NYSDEC-Temco Site 2016 Site Investigation Validated Soil Analytical Data SDGs: 480-105250 and 480-105324		Location ID: Depth: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	SB-33 9.5 - 10 ft SB-33-08312016-9.5-10 480-105324-4 TALBUFF 4801053241 SOIL 8/31/2016 9:15 10/17/2016	SB-33 18.5 - 19 ft SB-33-08312016-18.5-19 480-105324-5 TALBUFF 4801053241 SOILIL 8/31/2016 10:10 10/17/2016
CAS NO.	COMPOUND	UNITS:		
	VOLATILES			
71-55-6	1,1,1-TRICHLOROETHANE	ug/kg	5.3 UJ	5.2 UJ
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/kg	5.3 UJ	5.2 UJ
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/kg	5.3 UJ	5.2 UJ
79-00-5	1,1,2-TRICHLOROETHANE	ug/kg	5.3 UJ	5.2 UJ
75-34-3	1,1-DICHLOROETHANE	ug/kg	5.3 UJ	5.2 UJ
75-35-4	1,1-DICHLOROETHENE	ug/kg	5.3 UJ	5.2 UJ
120-82-1	1,2,4-TRICHLOROBENZENE	ug/kg	5.3 UJ	5.2 UJ
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	5.3 UJ	5.2 UJ
106-93-4	1,2-DIBROMOETHANE	ug/kg	5.3 UJ	5.2 UJ
95-50-1	1,2-DICHLOROBENZENE	ug/kg	5.3 UJ	5.2 UJ
107-06-2	1,2-DICHLOROETHANE	ug/kg	5.3 UJ	5.2 UJ
78-87-5	1,2-DICHLOROPROPANE	ug/kg	5.3 UJ	5.2 UJ
541-73-1	1,3-DICHLOROBENZENE	ug/kg	5.3 UJ	5.2 UJ
106-46-7	1,4-DICHLOROBENZENE	ug/kg	5.3 UJ	5.2 UJ
591-78-6	2-HEXANONE	ug/kg	27 UJ	26 UJ
67-64-1	ACETONE	ug/kg	27 UJ	26 UJ
71-43-2	BENZENE	ug/kg	5.3 UJ	5.2 UJ
75-27-4	BROMODICHLOROMETHANE	ug/kg	5.3 UJ	5.2 UJ
75-25-2	BROMOFORM	ug/kg	5.3 UJ	5.2 UJ
74-83-9	BROMOMETHANE	ug/kg	5.3 UJ	5.2 UJ
75-15-0	CARBON DISULFIDE	ug/kg	5.3 UJ	5.2 UJ
56-23-5	CARBON TETRACHLORIDE	ug/kg	5.3 UJ	5.2 UJ
108-90-7	CHLOROBENZENE	ug/kg	5.3 UJ	5.2 UJ
75-00-3	CHLOROETHANE	ug/kg	5.3 UJ	5.2 UJ
67-66-3	CHLOROFORM	ug/kg	5.3 UJ	5.2 UJ
74-87-3	CHLOROMETHANE	ug/kg	5.3 UJ	5.2 UJ
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/kg	5.3 UJ	5.2 UJ
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/kg	5.3 UJ	5.2 UJ
110-82-7	CYCLOHEXANE	ug/kg	5.3 UJ	5.2 UJ
124-48-1	DIBROMOCHLOROMETHANE	ug/kg	5.3 UJ	5.2 UJ
75-71-8	DICHLORODIFLUOROMETHANE	ug/kg	5.3 UJ	5.2 UJ
100-41-4	ETHYLBENZENE	ug/kg	5.3 UJ	5.2 UJ
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/kg	5.3 UJ	5.2 UJ
79-20-9	METHYL ACETATE	ug/kg	27 UJ	26 UJ
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/kg	27 UJ	26 UJ
108-10-1	METHYL ISOBUTYL KETONE	ug/kg	27 UJ	26 UJ
108-87-2	METHYLCYCLOHEXANE	ug/kg	5.3 UJ	5.2 UJ
75-09-2	METHYLENE CHLORIDE	ug/kg	5.3 UJ	5.2 UJ
100-42-5	STYRENE	ug/kg	5.3 UJ	5.2 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	ug/kg	5.3 UJ	5.2 UJ
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/kg	1.8 J	4.8 J
108-88-3	TOLUENE	ug/kg	5.3 UJ	5.2 UJ
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/kg	5.3 UJ	5.2 UJ
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/kg	5.3 UJ	5.2 UJ
79-01-6	TRICHLOROETHYLENE (TCE)	ug/kg	5.3 UJ	5.2 UJ
75-69-4	TRICHLOROFLUOROMETHANE	ug/kg	5.3 UJ	5.2 UJ
75-01-4	VINYL CHLORIDE	ug/kg	5.3 UJ	5.2 UJ
XYLENES	XYLENES, TOTAL	ug/kg	11 UJ	10 UJ

ATTACHMENT A-2

VALIDATED LABORATORY DATA FOR GROUNDWATER SAMPLES

NYSDEC-Temco Site 2016 Site Investigation Validated Groundwater Analytical Data SDGS: 480-105253 and 480-105400		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-1 MW-1-082916 480-105253-1 TALBUFF 4801052531 WATER 8/29/2016 12:55 10/17/2016	MW-5 MW-5-09012016 480-105400-1 TALBUFF 4801054001 WATER 9/1/2016 9:05 10/17/2016	MW-8D MW-8D-083016 480-105253-5 TALBUFF 4801052531 WATER 8/30/2016 11:50 10/17/2016	MW-8S MW-8S-083016 480-105253-4 TALBUFF 4801052531 WATER 8/30/2016 10:30 10/17/2016	MW-9 MW-9-090116 480-105400-9 TALBUFF 4801054001 WATER 9/1/2016 10:50 10/17/2016
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	4 U	1 U	4 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	4 U	1 U	4 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	4 U	1 U	4 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	4 U	1 U	4 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	4 U	1 U	4 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	4 U	1 U	4 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	4 U	1 U	4 U	1 U
591-78-6	2-HEXANONE	ug/l	5 U	20 U	5 U	20 U	5 U
67-64-1	ACETONE	ug/l	3.7 J	40 U	10 UJ	40 UJ	10 U
71-43-2	BENZENE	ug/l	1 U	4 U	1 U	4 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	4 U	1 U	4 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	4 UJ	1 U	4 U	1 UJ
75-15-0	CARBON DISULFIDE	ug/l	0.32 J	4 U	1 U	4 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	4 U	1 U	4 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	4 U	1 U	4 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
67-66-3	CHLOROFORM	ug/l	1 U	4 U	6.1	4 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	4 U	1 U	4 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	4 U	1 U	4 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	4 U	1 U	4 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	4 U	1 U	4 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	4 U	1 U	4 U	1 U
79-20-9	METHYL ACETATE	ug/l	2.5 U	10 U	2.5 U	10 U	2.5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U	40 U	10 U	40 U	10 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	20 U	5 U	20 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	4 U	1 U	4 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	4 U	1 U	4 U	1 U
100-42-5	STYRENE	ug/l	1 U	4 U	1 U	4 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	4 U	1 U	4 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1 U	140	25	200	1.5
108-88-3	TOLUENE	ug/l	1 U	4 U	1 U	4 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	4 U	1 U	4 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	4 U	1 U	4 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	4 U	1 U	4 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	4 U	1 U	4 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	4 U	1 U	4 U	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U	8 U	2 U	8 U	2 U
	VOLATILE TICs						
UNKVOA1	UNKNOWN VOLATILE ORGANIC	ug/l		35 J	9.2 J		

NYSDEC-Temco Site 2016 Site Investigation Validated Groundwater Analytical Data SDGS: 480-105253 and 480-105400		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-10D MW-10D-082916 480-105253-3 TALBUFF 4801052531 WATER 8/29/2016 15:59 10/17/2016	MW-10S MW-10S-082916 480-105253-2 TALBUFF 4801052531 WATER 8/29/2016 14:50 10/17/2016	MW-11 MW-11-083016 480-105253-6 TALBUFF 4801052531 WATER 8/30/2016 15:00 10/17/2016	MW-12 MW-12-09012016 480-105400-2 TALBUFF 4801054001 WATER 9/1/2016 10:25 10/17/2016	MW-13 MW-13-09012016 480-105400-3 TALBUFF 4801054001 WATER 9/1/2016 11:40 10/17/2016
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	10 UJ	10 U	10 UJ	10 U	10 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1.7	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 U	1 U	1 U	1 UJ	1 UJ
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	6.5	1 U	11	1 U	1 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/l	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	41	8.1	0.84 J	1.6	8.7
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U	2 U	2 U	2 U	2 U
	VOLATILE TICs						
UNKVOA1	UNKNOWN VOLATILE ORGANIC	ug/l					

NYSDEC-Temco Site 2016 Site Investigation Validated Groundwater Analytical Data SDGS: 480-105253 and 480-105400		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-14 MW-14-090116 480-105400-10 TALBUFF 4801054001 WATER 9/1/2016 12:15 10/17/2016	MW-15 MW-15-083116 480-105400-4 TALBUFF 4801054001 WATER 8/31/2016 9:05 10/17/2016	MW-16 MW-16-083116 480-105400-6 TALBUFF 4801054001 WATER 8/31/2016 13:15 10/17/2016	Dup of MW-16-083116 MW-16 MW-16-083116-D 480-105400-7 TALBUFF 4801054001 WATER 8/31/2016 13:15 10/17/2016	MW-17 MW-17-083116 480-105400-5 TALBUFF 4801054001 WATER 8/31/2016 10:50 10/17/2016
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/l	5 U	5 U	5 U	5 U	5 U
67-64-1	ACETONE	ug/l	10 U	10 U	10 U	10 U	10 U
71-43-2	BENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/l	1 U	1 U	1 U	1 U	1 U
74-83-9	BROMOMETHANE	ug/l	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
75-15-0	CARBON DISULFIDE	ug/l	1 U	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/l	1 U	17	1 U	1 U	1.3 U
74-87-3	CHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U	1 U	1 U	1 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U	1 U	1 U	1 U	1 U
79-20-9	METHYL ACETATE	ug/l	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U	10 U	10 U	10 U	10 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U	5 U	5 U	5 U	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/l	1 U	1 U	1 U	1 U	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	18	42	35	38	63
108-88-3	TOLUENE	ug/l	1 U	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	0.53 J	1 U	1.1	1.2	0.53 J
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U	2 U	2 U	2 U	2 U
	VOLATILE TICs						
UNKVOA1	UNKNOWN VOLATILE ORGANIC	ug/l		9.1 J			

NYSDEC-Temco Site 2016 Site Investigation Validated Groundwater Analytical Data SDGS: 480-105253 and 480-105400		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	FIELDQC FB-090116 480-105400-8 TALBUFF 4801054001 WATER 9/1/2016 13:30 10/17/2016
CAS NO.	COMPOUND	UNITS:	
	VOLATILES		
71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1 U
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1 U
75-34-3	1,1-DICHLOROETHANE	ug/l	1 U
75-35-4	1,1-DICHLOROETHENE	ug/l	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1 U
106-93-4	1,2-DIBROMOETHANE	ug/l	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/l	1 U
107-06-2	1,2-DICHLOROETHANE	ug/l	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/l	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/l	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/l	1 U
591-78-6	2-HEXANONE	ug/l	5 U
67-64-1	ACETONE	ug/l	10 U
71-43-2	BENZENE	ug/l	1 U
75-27-4	BROMODICHLOROMETHANE	ug/l	3.7
75-25-2	BROMOFORM	ug/l	1 U
74-83-9	BROMOMETHANE	ug/l	1 UJ
75-15-0	CARBON DISULFIDE	ug/l	1 U
56-23-5	CARBON TETRACHLORIDE	ug/l	1 U
108-90-7	CHLOROBENZENE	ug/l	1 U
75-00-3	CHLOROETHANE	ug/l	1 U
67-66-3	CHLOROFORM	ug/l	12
74-87-3	CHLOROMETHANE	ug/l	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/l	1 U
110-82-7	CYCLOHEXANE	ug/l	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/l	1.9
75-71-8	DICHLORODIFLUOROMETHANE	ug/l	1 U
100-41-4	ETHYLBENZENE	ug/l	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1 U
79-20-9	METHYL ACETATE	ug/l	2.5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10 U
108-10-1	METHYL ISOBUTYL KETONE	ug/l	5 U
108-87-2	METHYLCYCLOHEXANE	ug/l	1 U
75-09-2	METHYLENE CHLORIDE	ug/l	1 U
100-42-5	STYRENE	ug/l	1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	0.37 J
108-88-3	TOLUENE	ug/l	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/l	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/l	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/l	1 U
75-01-4	VINYL CHLORIDE	ug/l	1 U
XYLENES	XYLENES, TOTAL	ug/l	2 U
	VOLATILE TICs		
UNKVOA1	UNKNOWN VOLATILE ORGANIC	ug/l	

APPENDIX E

SOIL BORING / MONITORING WELL RECORDS

Contracto GeoLogic
Driller: Joe Menzel
Oversight: Kevin McMullen - Parsons
Rig Type: Geo Probe

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Locatio West Haverstraw, NY

BORING/ Page 1 of 1
WELL NO. SB-27
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:			ft bls
Additional Comments:			

Date/Time Start: August 29, 2016/1601
Date/Time Finish: August 30, 2016/1455

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)		SCHEMATIC	COMMENTS
HC		12"	0		0	Concrete Dry, loose, red-brown, f-c SAND, trace cobbles.		
HC		12"	0.5	SW	1	Dry, loose, red-brown, f-c SANd, trace clay, trace cobbles		
HC		12"	2.1	SW	2	Dry, loose, red-brown, f-c SANd, trace clay, trace cobbles		
HC		12"	0.1	SW	3	Dry, loose, red-brown, f-c SANd, trace clay, trace cobbles		
HC		12"	1.6	SW	4	Dry, loose, brown, f-c SAND, trace cobbles.		
MC		12"	1.3	SW	5	Dry, loose, brown, f-c SAND, trace cobbles.		
MC		12"	0	SW	6	Dry, loose, brown, f-c SAND, trace cobbles. Dry, loose, red-brown, coarse SAND, trace fine sand at end of run.		
MC		0	0	SW	7	No Recovery		
MC		12"	0	SW	8	Moist, loose, light brown, f-c SAND, trace gravel.		
MC		12"	0.7	SW	9	Moist, loose, dark brown, f-c SAND.		
MC		12"	0	SW	10	Moist, loose, dark brown, f-c SAND.		
MC		12"	0.6	SW	11	Moist, loose, dark brown, f-c SAND.		
MC		12"	0.6	SM	12	Moist, loose, dark brown, f-c SAND, some silt, trace angular gravel.		
MC		12"	0	SM	13	Moist, loose, dark brown, f-c SAND, some silt, trace angular gravel.		
MC		12"	0.4	SW	14	Moist, loose, dark brown, f-c SAND, trace silt.		
MC		12"	0.6	SW	15	Moist, loose, red-brown, f-c SAND, trace silt.		
MC		12"	0	SW	16	Moist, loose, f-c SAND, trace angular gravel		
MC		12"	0	SW	17	Wet, loose, brown, coarse SAND, some fine sand, some gravel.		
MC		12"	0	SM	18	Wet, loose, brown, coarse SAND, some fine sand, some gravel. Wet, loose, red-brown, f-m SAND, some silt.		
MC		12"	0	SM	19	Wet, loose, red-brown, f-m SAND, some silt.		
MC		12"	0	SM	20	Wet, loose, red-brown, f-m SAND, some silt.		

SAMPLING METHOD
HC = Hand Cleared (post hole)
MC = Macro Core

COMMENTS:
6" Concrete slab at surface. Large cobbles encountered at roughly 3 feet.
Samples collected: (8.5-9') @ 14:45 and (16.5'-17') @ 14:53

Contractor GeoLogic
Driller: Joe Menzel
Oversight: Kevin McMullen - Parsons
Rig Type: Geo Probe

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Locatio West Haverstraw, NY

BORING/ Page 1 of 1
WELL NO. SB-28
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:			ft bls
Additional Comments:			

Date/Time Start: August 29, 2016 @ 1555
Date/Time Finish: August 31, 2016 @ 08:45

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
HC		12"	0	SW	0	Concrete Dry, loose, black-brown, m-c SAND, trace clay, trace gravel, trace brick		
HC		12"	0	SW	1	Dry, loose, red-brown, f-c SAND, trace cobbles.		
HC		12"	0.8	SW	2	Dry, loose, red-brown, f-c SAND, trace cobbles.		
HC		12"	3.3	SW	3	Dry, loose, red-brown, f-c SAND, trace cobbles.		
HC		12"	4.2	SW	4	Dry, loose, red-brown, f-c SAND, trace cobbles.		
MC		12"	10	SW	5	Dry, loose, red-brown, f-c SAND, some silt.		
MC		12"	27.8	SM	6	Dry, loose, red-brown, f-c SAND, some silt. Dry, loose, red-brown, f-c SAND, trace gravel.		
MC		6"	21.1	SW	7	Dry, loose, red-brown, f-c SAND, trace gravel. No Recovery		
MC		12"	0	SM	8	Moist, loose, brown, f-c SAND, some silt. Moist, loose, dark brown, f-c SAND, some gravel.		
MC		12"	20.6	SW	9	Moist, stiff, brown, SILT, some f-c sand, trace clay. Moist, loose, brown, f-c SAND, some silt, trace gravel.		
MC		12"	24.9	SM	10	Moist, loose, brown, f-c SAND, some silt, trace gravel. Moist, loose, brown, coarse SAND, some fine sand, trace gravel.		
MC		12"	8.1	SW	11	Moist, loose, brown, coarse SAND, some fine sand, trace gravel.		
MC		12"	0	SW	12	Moist, loose, brown, coarse SAND, some fine sand, trace gravel.		
MC		12"	0	SM	13	Moist, loose, light brown, f-c SAND, some gravel.		
MC		12"	0	SW	14	Moist, loose, light brown, f-c SAND, some gravel. Moist, loose, light brown, coarse SAND, some gravel.		
MC		0"	0	SM	15	NO RECOVERY		
MC		12"	0	NA	16	Wet, loose, red-brown, f-c SAND, some silt, trace angular gravel.		
MC		12"	0	ML	17	Wet, loose, red-brown, f-c SAND, some silt, trace angular gravel. Wet, stiff, brown, SILT, some f-m sand.		
MC		12"	0	ML	18	NO RECOVERY		
MC		0"	0	-	19	NO RECOVERY		
MC		0"	0	-	20	NO RECOVERY		

SAMPLING METHOD
HC = Hand Cleared (post hole)
MC = Macro Core

COMMENTS:
6" Concrete slab at surface. Large cobbles encountered at roughly 3 feet.
Samples Collected: (5.5'-6') @ 08:16 and (12.5'-13') @ 08:22

Contractor GeoLogic
Driller: Joe Menzel
Oversight: Kevin McMullen - Parsons
Rig Type: Geo Probe

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Locatio West Haverstraw, NY

BORING/ Page 1 of 1
WELL NO. SB-29
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:			ft bls
Additional Comments:			

Date/Time Start: August 29, 2016/1555
Date/Time Finish: August 31, 2016/08:45

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
HC		12"	0	SW	0	Concrete Dry, loose, red-brown, f-c SAND, some silt, trace cobbles.		
HC		12"	3.8	SW	1	Dry, loose, red-brown, f-c SAND, trace clay, trace cobbles.		
HC		12"	0	SW	2	Dry, loose, red-brown, f-c SAND, trace clay, trace cobbles.		
HC		12"	0	SW	3	Dry, loose, red-brown, f-c SAND, trace clay, trace cobbles.		
HC		12"	0	SW	4	Dry, loose, brown COBBLES. Dry, loose, red-brown, f-c SAND, trace gravel.		
MC		12"	0.1	SW	5	Dry, loose, red-brown, f-c SAND, trace gravel.		
MC		12"	0.5	SW	6	Dry, loose, light brown, f-c SAND, trace silt.		
MC		6"	0.7	SW	7	Dry, loose, light brown, f-c SAND, tracel silt. No Recovery		
MC		12"	0	SW	8	Dry, loose, red-brown, f-m SAND, some silt, some organics.		
MC		12"	4.2	SM	9	Dry, loose, brown, f-c SAND, some silt.		
MC		12"	2.5	SM	10	Dry, loose, brown, f-c SAND, some silt. Dry, loose, brown, f-c SAND, trace gravel.		
MC		12"	1.4	SM	11	Dry, loose, brown, f-c SAND, trace gravel.		
MC		12"	2.5	SM	12	Moist, loose, brown, f-c SAND, some gravel		
MC		12"	2.9	SW	13	Moist, loose, brown, f-c SAND, some gravel		
MC		12"	0	SM	14	Moist, loose, brown, f-c SAND, trace gravel. Moist, loose, brown, f-c SAND, some silt.		
MC		0"	0	-	15	No Recovery		
MC		12"	0	SM	16	Dry, loose, brown, f-c SAND, some silt, trace gravel.		
MC		12"	0	SM	17	Moist, loose, red-brown, f-m SAND, trace silt.		
MC		12"	0	SW	18	Moist, loose, red-brown, f-m SAND, some silt, trace gravel.		
MC		12"	0	SM	19	Moist, loose, red-brown, f-m SAND, some silt, trace gravel.		
MC		12"	0	SM	20	Moist, loose, red-brown, f-m SAND, some silt, trace gravel.		

SAMPLING METHOD
HC = Hand Cleared (post hole)
MC = Macro Core

COMMENTS:
6" Concrete slab at surface. Large cobbles encountered at roughly 3 feet.
Samples collected: (8.5'-9') @ 15:11 and (14.5'-15') @ 15:18

PARSONS
DRILLING RECORD

BORING/ WELL NO. SB-30 Page 1 of 1

Contractor: GeoLogic
Driller: Joe Menzel
Oversight: Kevin McMullen - Parsons
Rig Type: Geo Probe

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

Location Description:

Location Plan

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:			ft bls
Additional Comments:			

Date/Time Start: August 30, 2016/0931
Date/Time Finish: August 31, 2016/12:50

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
HC		12"	0	SW	0	Concrete Dry, loose, black-brown, f-c SAND, trace gravel.		
HC		12"	0.3	SW	1	Dry, loose, red-brown, f-c SAND, trace clay, trace cobbles.		
HC		12"	0.1	SW	2	Dry, loose, red-brown, f-c SAND, trace clay, trace cobbles.		
HC		12"	1.3	SW	3	Dry, loose, red-brown, f-c SAND, trace clay, trace cobbles.		
HC		12"	0.8	SW	4	Dry, loose, brown, coarse SAND, some gravel. Dry, loose, light brown, fine GRAVEL, some f-c sand.		
MC		12"	0	SW	5	Dry, loose, red-brown, coarse SAND, some gravel. Dry, loose, gray, fine GRAVEL, some f-c sand.		
MC		12"	0	SP	6	Dry, loose, red-brown, f-c SAND, some gravel.		
MC		0"	0	-	7	No recovery		
MC		12"	0	SP	8	Dry, loose, dark brown, f-c SAND, some gravel. Dry, loose, light brown, f-c SAND, some gravel.		
MC		12"	0	SW	9	Dry, loose, light brown, f-c SAND, some gravel.		
MC		12"	0	SM	10	Dry, loose, light brown, f-c SAND, some gravel. Moist, loose, dark brown, f-m SAND, some silt.		
MC		0"	0	SW	11	No Recovery		
MC		12"	0	SW	12	Moist, loose, red-brown, coarse SAND, some fine sand, trace gravel. Moist, loose, brown, f-c SAND, some silt.		
MC		12"	0	SM	13	Moist, loose, brown, f-c SAND, some silt.		
MC		12"	0	SM	14	Moist, loose, red-brown, f-c SAND, trace gravel.		
MC		0"	0	-	15	No Recovery		
MC		12"	0	SW	16	Moist, loose, red-brown, coarse SAND, some fine sand, some gravel.		
MC		12"	0	SW	17	Moist, loose, red-brown, coarse SAND, some fine sand, some gravel.		
MC		6"	0	SW	18	Moist, loose, red-brown, coarse SAND, some fine sand, some gravel.		
MC		0"	0	-	19	No Recovery		
MC		0"	0	-	20	No Recovery		

SAMPLING METHOD
HC = Hand Cleared (post hole)
MC = Macro Core

COMMENTS:
6" Concrete slab at surface. Large cobbles encountered at roughly 3 feet.
Large cobbles throughout boring increasing drilling time.
Samples collected: (5.5'-6') @ 12:09 and (18'-18.5') @ 12.55

Contractor: GeoLogic
Driller: Joe Menzel
Oversight: Kevin McMullen - Parsons
Rig Type: Geo Probe

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Locatio West Haverstraw, NY

BORING/ Page 1 of 1
WELL NO. SB-31
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:			ft bls
Additional Comments:			

Date/Time Start: August 30, 2016/1000
Date/Time Finish: August 31, 2016/1050

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
HC		12"	0		0	Concrete Dry, loose, black-rown, f-c SAND, some gravel, trace cobbles.		
HC		12"	0.3	SW	1	Dry, loose, red-brown, f-c SAND, some cobbles, some gravel.		
HC		12"	0.1	SW	2	Dry, loose, red-brown, f-c SAND, some cobbles, some gravel.		
HC		12"	1.3	SW	3	Dry, loose, red-brown, f-c SAND, some cobbles, some gravel.		
HC		12"	0.8	SW	4	Dry, loose, brown, fine Cobbles, trace f-c sand.		
MC		12"	0	SP	5	Dry, loose, light brown, f-c SAND, some gravel.		
MC		12"	0	SW	6	Dry, loose, light brown, f-c SAND, trace silt.		
MC		0"	0	-	7	No Recovery		
MC		12"	0	SW	8	Dry, loose, light brown, f-c SAND, trace gravel.		
MC		12"	0	SW	9	Dry, loose, light brown, f-c SAND,some gravel, trace silt.		
MC		12"	0	SM	10	Dry, loose, red-brown, f-c SAND, some silt.		
MC		0"	0	SM	11	Dry, loose, red-brown, f-c SAND, some silt.		
MC		12"	0	SM	12	Moist, loose, red-brown, f-c SAND, trace silt. Moist, loose, red-brown, f-c SAND, some silt.		
MC		12"	0	SM	13	Moist, loose, red-brown, f-c SAND. Moist, loose, red-brown, f-c SAND, some silt.		
MC		6"	0	SM	14	Moist, loose, red-brown, f-c SAND, some silt. No Recovery		
MC		0"	0	-	15	No Recovery		
MC		12"	0	SW	16	Moist, loose, red-brown, coarse SAND, some fine sand, trace gravel.		
MC		12"	0	SW	17	Moist, loose, red-brown, coarse SAND, some fine sand, trace gravel.		
MC		6"	0	SW	18	Moist, loose, red-brown, coarse SAND, some fine sand, trace gravel. No Recovery		
MC		0"	0	-	19	No Recovery		
MC		0"	0	-	20	No Recovery		

SAMPLING METHOD
HC = Hand Cleared (post hole)
MC = Macro Core

COMMENTS:
6" Concrete slab at surface. Large cobbles encountered at roughly 3 feet.
Samples collected: (5.5'-6') @ 10:25 and (18-18.5') @10:55

Contractor: GeoLogic
Driller: Joe Menzel
Oversight: Kevin McMullen - Parsons
Rig Type: Geo Probe

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Locatio West Haverstraw, NY

BORING/ Page 1 of 1
WELL NO. SB-32
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:			ft bls
Additional Comments:			

Date/Time Start: August 30, 2016/0944
Date/Time Finish: August 31, 2016/1145

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
HC		12"	0		0	Concrete Dry, loose, black to brown, f-c SAND, trace cobbles, trace gravel.		
HC		12"	0.3	SW	1	Dry, loose, red-brown, f-c SAND, some cobbles.		
HC		12"	0.1	SW	2	Dry, loose, red-brown, f-c SAND, some cobbles.		
HC		12"	1.3	SW	3	Dry, loose, red-brown, f-c SAND, some cobbles.		
HC		12"	0.8	SW	4	Dry, loose, brown, fine COBBLES, some f-c sand. Cobbles, some sand Fine-Coarse		
MC		12"	0	SP	5	Cobbles, some sand Fine-Coarse Dry, loose, red-brown, f-c SAND, some silt.		
MC		12"	0	SW	6	Dry, loose, red-brown, f-c SAND, some silt.		
MC		0"	0	-	7	No Recovery		
MC		12"	0	SW	8	Dry, loose, red-brown, coarse SAND, some fine sand, trace gravel. Dry, loose, red-brown, f-c SAND,some gravel.		
MC		12"	0	SW	9	Dry, loose, red-brown, f-c SAND,some gravel.		
MC		0"	0	-	10	No Recovery		
MC		0"	0	-	11	No Recovery		
MC		12"	0	SM	12	Dry, loose, red-brown, coarse SAND, some fine sand, some gravel.		
MC		12"	0	SM	13	Dry, loose, red-brown, coarse SAND, some fine sand, some gravel.		
MC		6"	0	SM	14	Dry, loose, red-brown, coarse SAND, some fine sand, some gravel. No Recovery		
MC		0"	0	-	15	No Recovery		
MC		12"	0	SW	16	Moist, loose, red-brown, f-m SAND, some silt. Moist, loose, red-brown, f-m SAND,some clay, little silt.		
MC		12"	0	SW	17	Moist, loose, red-brown, f-c SAND, trace silt.		
MC		0"	0	SW	18	Moist, loose, red-brown, f-c SAND, trace silt. No Recovery		
MC		0"	0	-	19	No Recovery		
MC		0"	0	-	20	No Recovery		

SAMPLING METHOD
HC = Hand Cleared (post hole)
MC = Macro Core

COMMENTS:
6" Concrete slab at surface. Large cobbles encountered at roughly 3 feet.
Samples collected: (5.5'-6') @ 11:48 and (18'-18.5') @ 11:50

Contractor: GeoLogic
Driller: Joe Menzel
Oversight: Kevin McMullen - Parsons
Rig Type: Geo Probe

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Locatio West Haverstraw, NY

BORING/ Page 1 of 1
WELL NO. SB-33
Location Descriptic

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:			ft bls
Additional Comments:			

Date/Time Start: August 29, 2016 @ 0913
Date/Time Finish: August 31, 2016 @ 1005

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
HC		12"	0	SW	0	Concrete Dry, loose, black-brown, f-c SAND, trace gravel.		
HC		12"	0	SW	1	Dry, loose, red-brown, f-c SAND, trace cobbles.		
HC		12"	1.2	SW	2	Dry, loose, red-brown, f-c SAND, trace cobbles.		
HC		12"	3.1	SW	3	Dry, loose, red-brown, f-c SAND, trace cobbles.		
HC		12"	0.6	SW	4	Dry, loose, red-brown, f-c SAND, trace cobbles.		
MC		12"	0.2	SW	5	Dry, loose, brown, fine Cobbles, trace f-c sand.		
MC		12"	0	SW	6	Dry, loose, brown, coarse SAND, some fine sand, trace gravel.		
MC		12"	0	SM	7	Dry, loose, brown, coarse SAND, some fine sand, trace gravel. Dry, loose, red-brown, f-m SAND, some silt.		
MC		12"	0	SM	8	Dry, loose, brown, f-c SAND, some gravel. Dry, loose, red-brown, f-c SAND, some silt, trace gravel.		
MC		12"	0	SM	9	Dry, loose, red-brown, f-c SAND, some silt, trace gravel.		
MC		12"	0.8	SM	10	Dry, loose, red-brown, f-m SAND, trace gravel, trace cobbles.		
MC		12"	0.6	SM	11	Dry, loose, red-brown, f-m SAND, trace gravel, trace cobbles.		
MC		12"	0	SM	12	Dry, loose, brown, f-m SAND, some silt, trace gravel. Dry, loose, dark brown, coarse SANd, some fine sand, trace gravel.		
MC		12"	0	SW	13	Dry, loose, dark brown, coarse SANd, some fine sand, trace gravel. Dry, loose, light brown, f-c SAND, some silt.		
MC		6"	0	SM	14	Dry, loose, light brown, f-c SAND, some silt. No Recovery		
MC		0"	0	-	15	No Recovery		
MC		12"	0	SM	16	Moist, loose, dark brown, f-c SAND, some silt,trace gravel.		
MC		12"	0	SM	17	Moist, loose, dark brown, f-c SAND, some silt, trace gravel. Moist, loose, dark brown, f-c SAND, some silt, little clay.		
MC		12"	0	SM	18	Moist, loose, dark brown, f-c SAND, some silt, little clay.		
MC		12"	0	-	19	No Recovery		
MC		0"	0	-	20	No Recovery		

SAMPLING METHOD
HC = Hand Cleared (post hole)
MC = Macro Core

COMMENTS:
6" Concrete slab at surface. Large cobbles encountered at roughly 3 feet.
Liners busted at 8' - 12' and 16' - 20'. Soil placed in zip lock bags from spoon.
Sample collected: (9.5'-10') @ 09:15 and (8.5'-19') @ 10:10

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-11 Page 1 of 5

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

Location Description:

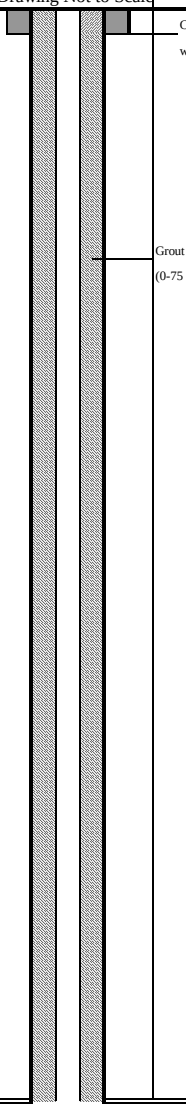
GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~28	ft bls
Measured Water Level:		28.6	ft bls
Total Depth of Well:		89	ft bls
Additional Comments:			

Date/Time Start: October 8, 2012/1100
Date/Time Finish: October 9, 2012/1800

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
HC			0	SW	0	Moist, loose, brown, F-C SAND and F-C Gravel, some cobbles
					1	
					2	
					3	
					4	
SS	10-9-9-16	20"	0.3	SW	5	Moist, medium dense, dark-light brown, F-C SAND, some fine gravel
					6	
SS	15-10-10-9	18"	0	SP	7	0-5"-Moist, medium dense, medium brown, F-C SAND, some fine gravel. 5-18"-moist, medium dense, medium brown, F-M SAND, trace coarse sand
					8	
SS	14-12-8-8	6"	0	SP	9	Moist, medium dense, bornw, M-F SAND
					10	
SS	16-23-36-20	3"	0	SP	11	Moist, dense, brown-gray, M-F SAND and M-F Gravel
					12	
SS	5-15-50/0.35	3"	0	SW	13	Moist, dense, brown-gray, M-F SAND and M-F Gravel
					14	
SS	7-9-10-12	3"	0	SW	15	Moist, medium dense, brown-gray, M-F SAND and M-F Gravel
					16	
SS	10-7-9-7	20"	0	SW	17	0-17"-Moist, medium dense, brown, F-M SAND, trace fine gravel. 17-20"-Moist, medium dense, dark brown, F-C SAND, trace silt, trace fine gravel
					18	
SS	10-8-9-10	18"	0	SM	19	Moist, medium dense, brown, M-F SAND, trace silt
					20	

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-11 Page 2 of 5
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~28	ft bls
Measured Water Level:		28.6	ft bls
Total Depth of Well:		89	ft bls
Additional Comments:			

Date/Time Start: October 8, 2012/1100
Date/Time Finish: October 9, 2012/1800

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC Drawing Not to Scale	COMMENTS
					20			
SS	7-7-10-12	24"	0.2	SM	21	Moist, medium dense, brown, M-F SAND, trace silt		
					22			
SS	0-12-10-1	-	-	-	23	No Recovery		
					24			Grout (0-75 ft bls)
SS	6-7-8-7	22"	0	SM	25	Very moist, medium dense, brown, M-F SAND, trace silt		
					26			
SS	6-7-11-13	15"	0	SP	27	dense, medium brown, F-C SAND. 11-15"-Wet, medium dense, brown, M-F SAND		
					28			
SS	5-8-12-12	20"	0	SP	29	Wet, medium dense, brown, M-F SAND		
					30			
SS	6-14-13-1	24"	0	SP	31	Wet, medium dense, brown, M-F SAND		
					32			
SS	5-10-9-8	24"	0	SP	33	Wet, medium dense, brown, M-F SAND		
					34			
SS	WH-1-3-4	12"	0	SP	35	Wet, loose, brown, M-F SAND		
					36			
SS	8-5-6-6	24"	0	SP	37	Wet, medium dense, brown, M-F SAND		
					38			
SS	5-4-4-4	24"	0	SP	39	Wet, loose, brown, M-F SAND		
					40			

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-11 Page 3 of 5
Location Description:

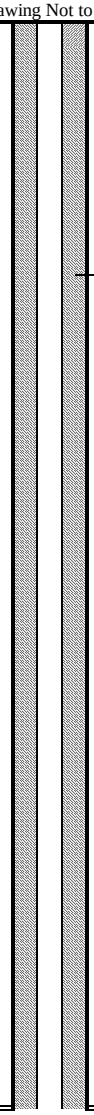
GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~28	ft bls
Measured Water Level:		28.6	ft bls
Total Depth of Well:		89	ft bls
Additional Comments:			

Date/Time Start: October 8, 2012/1100
Date/Time Finish: October 9, 2012/1800

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					40	
SS	WR-WR-1-2	24"	0	SP	41	Wet, loose, brown, M-F SAND
					42	
SS	5-3-5-8	24"	0	SP	43	Wet, loose, brown, M-F SAND
					44	
SS	5-5-3-5	24"	0	SP	45	Wet, loose, brown, M-F SAND
					46	
SS	6-4-2-5	20"	0	SP	47	Wet, loose, brown, M-F SAND
					48	
SS	7-3-4-6	20"	0	SP	49	Wet, loose, brown, M-F SAND
					50	
SS	1-2-2-1	18"	0	SP	51	Wet, loose, brown, M-F SAND
					52	
SS	1-1-3-5	20"	0	SP	53	Wet, loose, brown, M-F SAND
					54	
SS	2-3-3-6	20"	0	SP	55	Wet, loose, brown, M-F SAND
					56	
SS	WH-2-5-7	20"	0	SP	57	Wet, loose, brown, M-F SAND
					58	
SS	2-5-8-17	18"	0	SP	59	Wet, loose, brown, M-F SAND, trace fine gravel
					60	

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-11
Location Description:

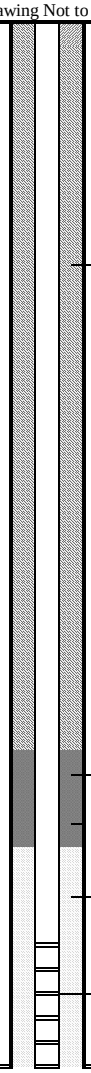
GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~28	ft bls
Measured Water Level:		28.6	ft bls
Total Depth of Well:		89	ft bls
Additional Comments:			

Date/Time Start: October 8, 2012/1100
Date/Time Finish: October 9, 2012/1800

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					60	
SS	WH-5-10-16	18"	0	SP	61	Wet, medium dense, medium brown, F-C SAND, trace fine gravel, trace silt
					62	
SS	6-14-23-23	12"	0	SP	63	Wet, dense, brown, F-C SAND
					64	
SS	5-7-14-17	12"	0	SP	65	Wet, medium dense, medium brown, F-C SAND, little fine gravel
					66	
SS	21-11-11-20	18"	0	SP	67	Wet, medium dense, medium brown, F-C SAND, some fine gravel, trace medium g
					68	
SS	19-14-14-16	18"	0	SP	69	Wet, medium dense, medium brown, F-C SAND, some fine gravel, trace medium g
					70	
SS	6-9-17-23	12"	0	SP	71	Wet, medium dense, medium brown, F-C SAND, some fine gravel, trace medium g
					72	
SS	6-5-11-10	12"	0	SP	73	Wet, medium dense, medium brown, F-C SAND, some fine gravel, trace medium g
					74	
SS	43-9-8-11	3"	0	SP	75	Wet, medium dense, medium brown, F-C SAND, some fine gravel, trace medium g
					76	
SS	14-10-8-15	18"	0	SW	77	Wet, medium dense, brown, F-C SAND and F-C Gravel
					78	
SS	27-16-15-13	22"	0	SP	79	Wet, medium dense, brown, F-C SAND and F-C Gravel
					80	

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-11
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~28	ft bls
Measured Water Level:		28.6	ft bls
Total Depth of Well:		89	ft bls
Additional Comments:			

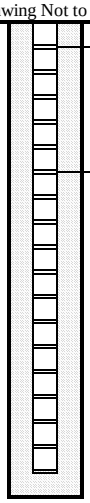
Date/Time Start: October 8, 2012/1100
Date/Time Finish: October 9, 2012/1800

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					80	
SS	6-13-18-33	24"	0	SW	81	0-20"-Wet, medium dense, brown, F-C SAND and F-C Gravel. 20-24"-Wet, stiff, brown-red, SILT and F-C SAND, trace F-C gravel (till)
					82	
SS	WR-27-22-1	24"	0	GM	83	Wet, very stiff, red-brown, SILT and F-G Gravel, some F-C SAND (till)
					84	
SS	12-18-13-16	12"	0	GM	85	Wet, very stiff, red-brown, SILT and F-G Gravel, some F-C SAND (till)
					86	
SS	25-12-11-12	24"	0	GM	87	Wet, very stiff, red-brown, SILT and F-G Gravel, some F-C SAND (till)
					88	
SS	70/0.5	-	-	-	89	Refusal at 89.5'
					90	End of Boring

SCHEMATIC

Drawing Not to Scale



COMMENTS

#10 Slot Screen (79-89 ft bls)

2 in ID PVC Well
Total Depth 89 ft bls

SAMPLING METHOD

HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-12 Page 1 of 2

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

Location Description:

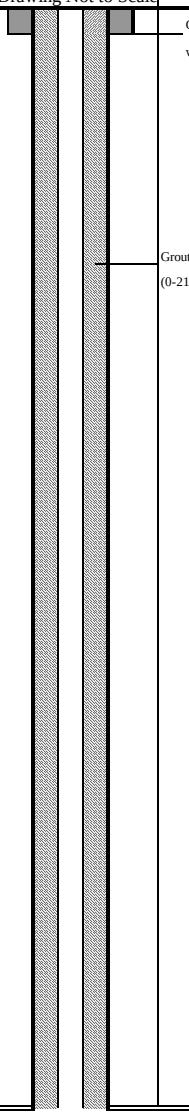
GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~29	ft bls
Measured Water Level:		28.7	ft bls
Total Depth of Well:		35	ft bls
Additional Comments:			

Date/Time Start: October 3, 2012/1500
Date/Time Finish: October 4, 2012/0940

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
HC					0	Moist, loose, brown, F-C SAND and F-C Gravel, some cobbles
					1	
					2	
					3	
					4	
SS	9-16-15-14	12"	2.8	SW	5	Moist, medium dense, medium brown, F-C SAND, some F-C gravel
					6	
SS	9-14-17-1	6"	3	SW	7	Moist, medium dense, medium brown, F-C SAND, some F-C gravel
					8	
SS	12-5-4-3	3"	3	SW	9	Moist, medium dense, medium brown, F-C SAND, some F-C gravel
					10	
SS	5-3-9-19	3"	0	SW	11	Moist, medium dense, medium brown, F-C SAND, some F-C gravel
					12	
SS	6-16-23-8	6"	0	SW	13	Moist, medium dense, medium brown, F-C SAND, some F-C gravel
					14	
SS	1-11-10-1	3"	0	SP	15	Moist, medium dense, brown, F-M SAND, little fine gravel
					16	
SS	10-8-10-12	20"	0	SP	17	Moist, medium dense, brown, F-M SAND, little fine gravel
					18	
SS	5-8-9-15	17"	0	SP	19	Moist, medium dense, medium brown, F-C SAND, trace fine gravel
					20	

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-12 Page 2 of 2

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

Location Description:

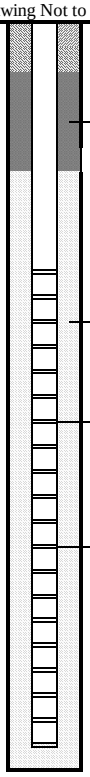
Location Plan

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~29	ft bls
Measured Water Level:		28.7	ft bls
Total Depth of Well:		35	ft bls
Additional Comments:			

Date/Time Start: October 3, 2012/1500
Date/Time Finish: October 4, 2012/0940

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					20	
SS	14-10-8-9	20"	0	SP	21	Moist, medium dense, medium brown, F-C SAND, trace fine gravel
					22	
SS	3-7-7-7	18"	0	SP	23	Moist, medium dense, medium brown, F-C SAND, trace fine gravel
					24	
SS	5-7-12-25	18"	0	SP	25	Moist, medium dense, medium brown, F-C SAND, trace fine gravel
					26	
SS	11-19-11-9	20"	0	SP	27	Wet, medium dense, medium brown, F-C SAND, trace fine gravel
					28	
SS	2-2-5-4	20"	0	SP	29	Wet, loose, medium brown, F-C SAND, trace fine gravel
					30	
SS	3-3-6-8	24"	0	SP	31	Wet, loose, medium brown, F-C SAND, trace fine gravel
					32	
SS	2-4-5-7	12"	0	SP	33	Wet, loose, medium brown, F-C SAND, trace fine gravel
					34	
SS	1-1-2-4	24"	0	SP	35	Wet, loose, medium brown, F-C SAND, trace fine gravel
					36	
SS	WH-WH-WH-WH	-	-	-	37	No Recovery
					38	
SS	6-5-n-n	6"	0	SP	39	Wet, loose, brown, M-F SAND
					40	End of Boring

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-13 Page 1 of 2

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

Location Description:

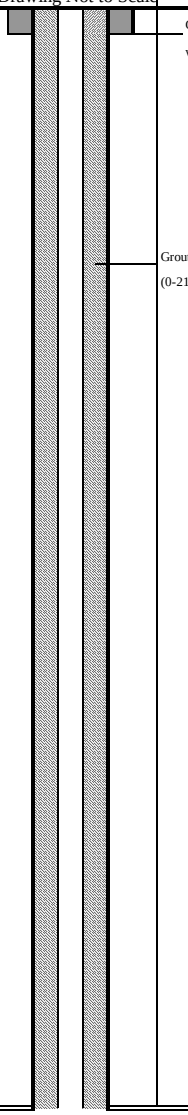
Location Plan

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~26	ft bls
Measured Water Level:		26.4	ft bls
Total Depth of Well:		35	ft bls
Additional Comments:			

Date/Time Start: October 4, 2012/1500
Date/Time Finish: October 5, 2012/0940

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
HC				SW	0	Moist, loose, brown, F-C SAND and F-C Gravel, some cobbles
					1	
					2	
					3	
					4	
SS	5-5-5-7	22"	0	SP	5	Moist, loose, brown, M-F SAND
					6	
SS	7-6-7-10	22"	0	SP	7	Moist, loose, brown, M-F SAND
					8	
SS	4-7-7-7	20"	0	SP	9	Moist, loose, medium brown, F-C SAND, little fine gravel
					10	
SS	9-8-10-12	18"	0	SP	11	Moist, loose, medium brown, F-C SAND, little fine gravel
					12	
SS	3-5-5-7	20"	0	SP	13	Moist, loose, medium brown, F- C SAND, trace fine gravel
					14	
SS	4-6-8-10	17"	0	SP	15	Moist, loose, medium brown, F- C SAND, trace fine gravel
					16	
SS	9-8-8-17	20"	0	SP	17	Moist, loose, medium brown, F- C SAND, trace fine gravel
					18	
SS	6-11-12-15	18"	0	SP	19	Moist, loose, medium brown, F- C SAND, trace fine gravel
					20	

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-13

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

Location Description:

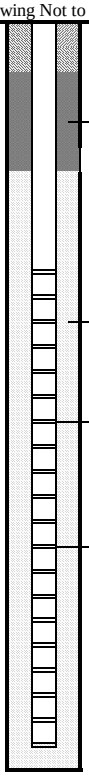
GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~26	ft bls
Measured Water Level:		26.4	ft bls
Total Depth of Well:		35	ft bls
Additional Comments:			

Date/Time Start: October 4, 2012/1510
Date/Time Finish: October 5, 2012/0940

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					20	
SS	12-9-9-10	20"	0	SP	21	Moist, loose, brown, M-F SAND, trace coarse sand
					22	
SS	1-5-4-6-	20"	0	SP	23	Moist, loose, brown, M-F SAND
					24	
SS	1-3-5-4	18"	0	SP	25	Wet, loose, brown, M-F SAND
					26	
SS	3-4-3-6	24"	0	SP	27	Wet, loose, brown, M-F SAND
					28	
SS	1-2-2-3	14"	0	SP	29	Wet, loose, brown, M-F SAND
					30	
SS	2-4-5-6	24"	0	SP	31	Wet, loose, brown, M-F SAND
					32	
SS	2-2-4-6	24"	0	SP	33	Wet, loose, brown, M-F SAND
					34	
SS	2-5-6-6	12"	0	SP	35	Wet, loose, brown, M-F SAND
					36	
SS	1-3-5-4	22"	0	SP	37	Wet, loose, brown, M-F SAND
					38	
SS	4-4-n-n	12"	0	SP	39	Wet, loose, brown, M-F SAND
					40	End of Boring

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-14 Page 1 of 2
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~24	ft bls
Measured Water Level:		24	ft bls
Total Depth of Well:		35	ft bls
Additional Comments:			

Date/Time Start: October 2, 2012/1700
Date/Time Finish: October 3, 2012/1100

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (Drawing Not to Scale)	COMMENTS
HC				SW	0	Moist, loose, brown, F-C SAND and F-C Gravel, some cobbles		Concrete Pad with Flush Mount Cover
					1			
					2			
					3			
					4			Grout (0-21 ft bls)
SS	4-6-4-2	4"		SM	5	Moist, loose, dark brown, F-C SAND, some silt, trace fine gravel		
					6			
SS	2-3-4-7	14"		SM	7	Moist, loose, dark brown, F-C SAND, some silt, trace fine gravel		
					8			
SS	14-6-6-6	17"		SM	9	0-12"-Moist, loose, dark brown, F-C SAND, some silt, trace fine gravel. 12-17"-Mo		
					10			
SS	5-5-5-6	15"		SM	11	Moist, loose, brown, fine SAND, trace silt		
					12			
SS	4-5-6-8	20"		SM	13	Moist, loose, brown, fine SAND, trace silt		
					14			
SS	5-12-11-1	-		-	15	No Recovery		
					16			
SS	11-6-7-8	17"		SP	17	Moist, loose, medium brown, F-C SAND		
					18			
SS	29-24-23-2	4"		SP	19	Moist, dense, medium brown, F-C SAND		
					20			

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-14 Page 2 of 2
Location Description:

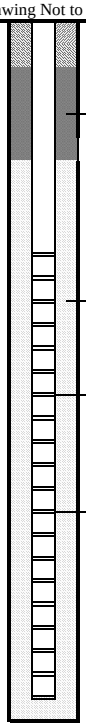
GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~24	ft bls
Measured Water Level:		24	ft bls
Total Depth of Well:		35	ft bls
Additional Comments:			

Date/Time Start: October 2, 2012/1700
Date/Time Finish: October 3, 2012/1100

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					20	
SS	5-4-6-6	19"		SP	21	0-15"-Moist, loose, brown, F-M SAND, trace silt. 15-19"-Moist, loose, medium brown, F-C SAND
					22	
SS	3-4-5-6	15"		SP	23	Wet, loose, medium brown, F-C SAND
					24	
SS	3-4-5-4	16"		SP	25	Wet, loose, medium brown, F-C SAND
					26	
SS	4-5-7-8	24"		SP	27	Wet, loose, medium brown, F-C SAND
					28	
SS	4-3-5-9	17"		SP	29	Wet, loose, medium brown, F-C SAND
					30	
SS	11-18-19-21	24"		SP	31	0-18"-Wet, medium dense, medium brown, F-C SAND. 18-24"-Wet, medium dense, fine SAND, trace coarse sand
					32	
SS	6-3-5-8	24"		SP	33	0-12"-Wet, loose, medium brown, F-C SAND. 12-24"-Wet, loose, brown, fine SAN
					34	
SS	6-6-9-9	13"		SP	35	Wet, loose, medium brown, fine SAND, trace M-C sand
					36	
SS	1-4-6-8	13"		SP	37	Wet, loose, medium brown, fine SAND, trace M-C sand
					38	
SS	8-9-n-n	12"		SP	39	Wet, loose, medium brown, fine SAND, trace M-C sand
					40	End of Boring

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:
Rain showers all day. PID was not used due to moisture and rain.

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-15 Page 1 of 2
Location Description:

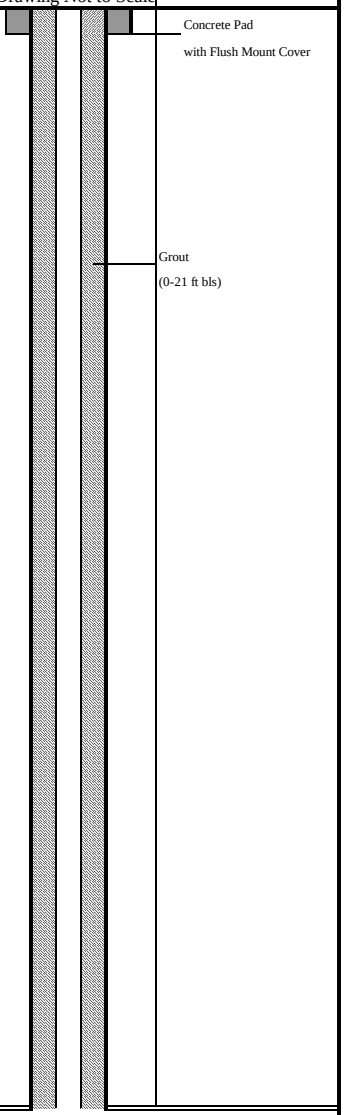
GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~28	ft bls
Measured Water Level:		28	ft bls
Total Depth of Well:		35	ft bls
Additional Comments:			

Date/Time Start: October 10, 2012/1615
Date/Time Finish: October 11, 2012/0925

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
HC				SW	0	Moist, loose, brown, F-C SAND and F-C Gravel, some cobbles
					1	
					2	
					3	
					4	
SS	5-10-13-12	20"	0	SP	5	Moist, medium dense, brown, F-M SAND, trace coarse sand
					6	
SS	9-11-15-19	20"	0	SP	7	0-6"-Moist, medium dense, F-M SAND, trace coarse sand. 6-12"-Moist, medium dense, brown, F-C SAND. 12-20"-Moist, medium dense, brown, M-F SAND, trace coarse sand
					8	
SS	8-14-13-15	20"	1.2	SP	9	Moist, medium dense, light brown, F-C SAND
					10	
SS	11-9-11-11	18"	0.2	SP	11	Moist, medium dense, light brown, F-C SAND
					12	
SS	4-5-8-9	18"	0.7	SP	13	Moist, medium dense, light brown, F-C SAND
					14	
SS	7-12-20-30	20"	0	SM	15	Moist, dense, light brown, M-F SAND, trace silt
					16	
SS	20-25-40-4	22"	0.9	SM	17	Moist, very dense, red-brown, M-F SAND, trace silt
					18	
SS	11-21-15-1	16"	0.5	SP	19	Moist, dense, light-medium brown, F-C SAND, trace fine gravel
					20	

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

Contractor: GeoLogic
Driller: Dave Lyons
Oversight: Allison Menges
Rig Type: CME 45B

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-15 Page 2 of 2
Location Description:

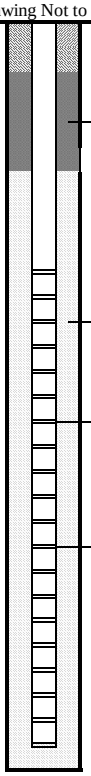
GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:		~24	ft bls
Measured Water Level:		24	ft bls
Total Depth of Well:		35	ft bls
Additional Comments:			

Date/Time Start: October 10, 2012/1615
Date/Time Finish: October 11, 2012/0925

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
					20	
SS	13-9-8-8	20"	0.4	SP	21	Moist, loose, light brown, F-C SAND
					22	
SS	8-11-7-7	12"	0.2	SP	23	Moist, loose, light brown, F-C SAND
					24	
SS	13-11-11-9	22"	0.1	SP	25	Moist, medium dense, brown, F-M SAND
					26	
SS	4-5-4-5	14"	0.1	SP	27	Wet, loose, brown, F-C SAND
					28	
SS	2-3-3-4	12"	0.2	SP	29	Wet, loose, medium brown, F-C SAND
					30	
SS	3-5-6-8	24"	0	SP	31	Wet, loose, medium brown, F-C SAND
					32	
SS	2-2-4-4	24"	0	SP	33	Wet, loose, brown, M-F SAND some coarse sand
					34	
SS	WR-1-3-6	18"	0	SP	35	Wet, loose, brown, M-F SAND some coarse sand
					36	
SS	1-3-5-6	16"	0	SP	37	Wet, loose, brown, M-F SAND some coarse sand
					38	
SS	6-8-n-n	12"	0	SP	39	Wet, loose, brown, M-F SAND some coarse sand
					40	End of Boring

SCHEMATIC
Drawing Not to Scale



COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:
Rain showers all day. PID was not used due to moisture and rain.

Contractor: GeoLogic
Driller: Steve Laramee
Oversight: Ellen Paccia
Rig Type: Truck Mounted

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-16 Page 1 of 2
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:		36	ft bls
Additional Comments:			

Date/Time Start: 12/3/15 @ 08:00
Date/Time Finish: 12/3/15 @ 13:30

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
HC					0	Hand Clear to 5' bgs
					1	
					2	
					3	
					4	
					5	
SS	20-27-22-1	6"	0	SM	6	Dry, loose, brown to gray, C-M-F SAND and Silt, little coarse and medium gravel.
					7	
SS	5-16-11-1	15"	0	SM	8	Dry, soft, brown, SILT and M-F Sand, trace clay, trace medium gravel.
					9	
SS	10-8-8-7	10"	0	SM	10	Dry, medium stiff, brown, SILT and M-F Sand, trace clay.
					11	
SS	7-4-4-4	20"	0	SM	12	Top 8-inches: Dry, loose, brown with tan, C-M-F SAND, little silt, trace little clay. Rest of run is Dry, Loose, brown with tan, C-M-F SAND, trace medium angular gravel.
					13	
SS	10-7-7-7	0	0	-	14	No recovery
					15	
SS	5-5-6-6	12"	0	SW	16	Dry, loose, brown-dark brown, C-M-F SAND.
					17	
SS	10-5-5-5	0"	0	-	18	No recovery
					19	
					20	

SCHEMATIC
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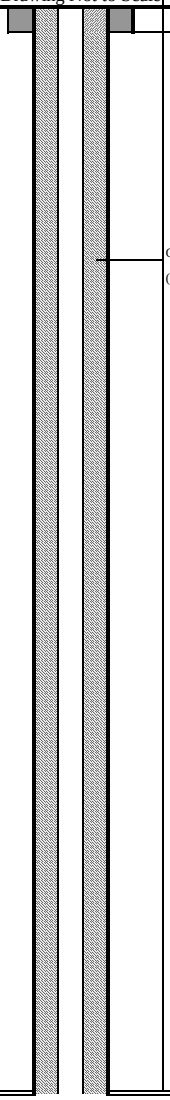

COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

Contractor: GeoLogic
Driller: Steve Laramee
Oversight: Ellen Paccia
Rig Type: Truck Mounted

PARSONS
DRILLING RECORD

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

BORING/ WELL NO. MW-16
Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:		36	ft bls
Additional Comments:			

Date/Time Start: 12/3/15 @ 08:00
Date/Time Finish: 12/3/15 @ 13:30

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
SS	11-9-9-8	0	0	-	20	No Recovery
					21	
SS	7-6-4-10	18"	0	SM	22	Dry to moist, loose, brown, C-M-F SAND, little silt, trace clay, trace medium gravel.
					23	
SS	10-7-7-7	0"	0	-	24	No Recovery
					25	
SS	16-8-6-8	10"	0	SM	26	Moist, loose, brown to dark brown with tan, C-M-F SAND, little silt, trace clay, trace medium gravel.
					27	
SS	4-5-4-6	20"	0	SW	28	Wet, loose, brown with dark brown, C-M-F SAND, little medium and corase gravel, trace silt.
					29	
SS	7-5-5-9	24"	0	SW	30	Wet, loose, brown with dark brown, C-M-F SAND, little medium gravel, trace silt.
					31	
SS	6-6-7-7	14"	0	SW	32	Wet, loose, brown with dark brown and tan, C-M-F SAND grading to M-F SAND with little coarse sand.
					33	
SS	10-6-4-5	18"	0	SW	34	Wet, loose, brown with dark brown and tan, C-M-F SAND, trace medium gravel.
					35	
SS	6-14-6-10	24"	0	SW	36	Wet, loose, brown with dark brown and tan, C-M-F SAND, trace medium gravel, trace silt in bottom 6-inches.
					37	
SS	10-12-12-14	18"	0	SW	38	Wet, medium dense, brown with dark brown and tan, C-M-F SAND, little coarse gravel, trace medium gravel.
					39	
					40	End of Boring

SCHEMATIC
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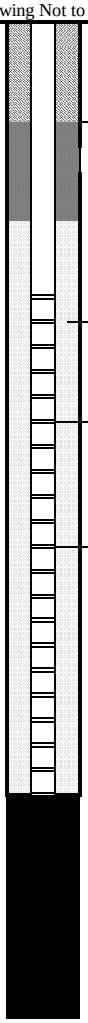

COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:
Flush mount well
Samples collected: (28'-30') @ 09:40 . Duplicate collected (DUP120315 @ 12:01)

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-17 Page 1 of 2

Contractor: GeoLogic
Driller: Steve Laramee
Oversight: Ellen Paccia
Rig Type: Truck Mounted

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:		39	ft bls
Additional Comments:			

Date/Time Start: 12/1/15 @ 16:00
Date/Time Finish: 12/2/15 @ 15:00

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
HC				SW	0	
					1	
					2	
					3	
					4	
					5	
SS	6-20-16-1	8"	0	SW	6	Dry, medium dense, light brown to tan, C-M SAND, little medium gravel.
					7	
SS	10-8-9-7	10"	0	SW	8	Dry, loose, light brown, C-M-F SAND, trace medium gravel.
					9	
SS	6-7-8-12	12"	0	SW	10	Dry, loose, light brown, C-M-F SAND, trace silt, trace organics.
					11	
SS	6-5-8-7	15"	0	SW	12	Dry, loose, light brown, C-M-F SAND.
					13	
SS	8-6-6-9	12"	0	SM	14	Dry, loose, light brown and tan, M-C SAND, little fine sand.
					15	
SS	9-8-6-8	16"	0	SW	16	Dry, loose, light brown to brown, C-M-F SAND, bottom 2-inches is moist with little silt and trace clay.
					17	
SS	4-10-10-8	15"	0	SM	18	Dry to moist, stiff, brown, SILT and M-F SAND, little coarse sand, trace medium gravel, trace clay.
					19	
					20	

SCHEMATIC
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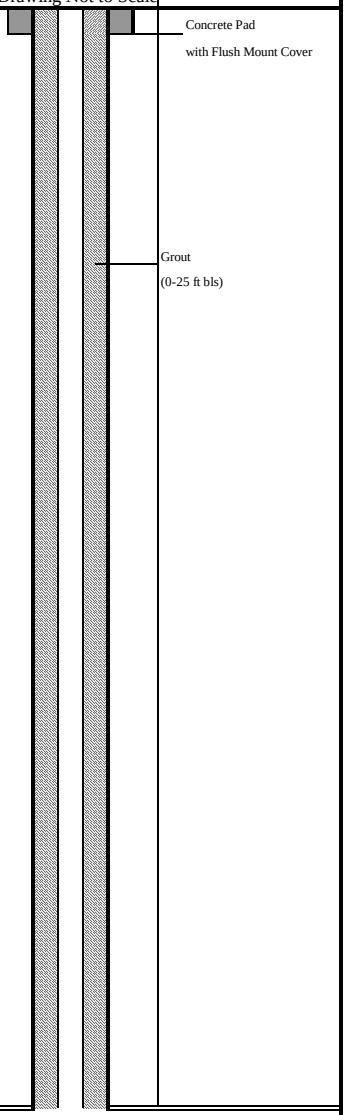

COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-17 Page 2 of 2

Contractor: GeoLogic
Driller: Steve Laramee
Oversight: Ellen Paccia
Rig Type: Truck Mounted

PROJECT NAME: NYSDEC Temco
PROJECT Location: West Haverstraw, NY

Location Description:

GROUNDWATER OBSERVATIONS			
Apparent Borehole DTW:			ft bls
Measured Water Level:			ft bls
Total Depth of Well:		39	ft bls
Additional Comments:			

Date/Time Start: 12/1/15 @ 16:00
Date/Time Finish: 12/2/15 @ 15:00

Location Plan

Sample Type	SPT	Recovery	PID	USCS Symbol	Depth (ft bls)	FIELD IDENTIFICATION OF MATERIAL
SS	7-8-6-5	8"	0	SM	20	Moist, medium stiff, brown, SILT and M-S Sand, trace coarse sand, trace clay.
					21	
SS	8-9-9-7	16"	0	SM	22	Moist, medium stiff, brown to gray-brown, SILT and M-F Sand, little coarse gravel, trace clay and coarse sand.
					23	
SS	3-6-6-8	15"	0	SM	24	Wet, medium stiff, brown, SILT and M-F Sand, little clay, trace coarse sand.
					25	
SS	14-14-9-7	6"	0	SW	26	Wet, medium dense, brown, C-M-F SAND, little silt, trace clay, trace coarse gravel.
					27	
SS	1-1-3-2	14"	0	SW	28	Wet, loose, brown, C-F SAND, trace silt, trace clay.
					29	
SS	6-4-3-6	14"	0	SW	30	Wet, loose, brown, C-M-F SAND.
					31	
SS	6-5-4-6	24"	0	SW	32	Wet, loose, brown, C-M-F SAND.
					33	
SS	7-9-7-9	24"	0	SW	34	Wet, loose, brown, C-M-F SAND.
					35	
SS	6-7-6-8	24"	0	SW	36	Wet, loose, brown, C-M-F SAND, trace silt, trace clay.
					37	
SS	9-9-7-9	24"	0	SW	38	Wet, loose, brown, C-M-F SAND.
					39	
					40	End of Boring

SCHEMATIC
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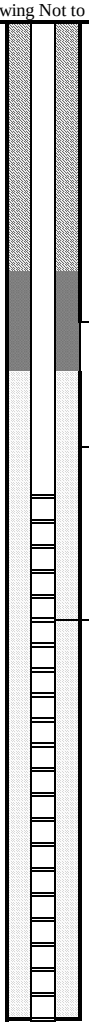


COMMENTS

SAMPLING METHOD
HC = Hand Cleared (post hole)
SS= Split Spoon

COMMENTS:
Flush mount well
Samples collected: (24'-26') @ 09:10. MS/MSD collected here as well.

APPENDIX F

WELL DEVELOPMENT AND GROUNDWATER SAMPLING RECORDS

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-1 **WEATHER:** 70F,cloudy
DATE: 5/22/2012 **TIME:** 1645

DEVELOPER: Allison Menges of Parsons
Lopa Naik of Parsons

DESCRIPTION OF WELL

Total Depth: 35.0 ft Diameter: 2"
Screen Depth: 25-25ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 30.71 ft
One Well Volume:

2-Inch Casing:	4	Feet of Water x 0.16 Gallons/Foot =	0.6	Gallons	2 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 10 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
1645	14.88	7.09	0.56	441	Water Turbid
1650	15.22	6.91	0.554	96.3	Water Clear
1655	15.18	6.89	0.55	54.9	Water Clear
1700	15.75	6.85	0.551	63.3	Water Clear
1705	14.7	6.82	0.545	67.1	Water Clear
1710	14.71	6.81	0.545	46.5	Water Clear
1715	14.48	6.8	0.544	20.6	Water Clear
1720	14.44	6.8	0.54	15.1	Water Clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-3 **WEATHER:** 65F, light rain
DATE: 5/22/2012 **TIME:** 900

DEVELOPER: Allison Menges of Parsons
Lopa Naik of Parsons

DESCRIPTION OF WELL

Total Depth: 34.5 ft Diameter: 2"
Screen Depth: # 34.5 ft
Development Method: Bailer

GROUNDWATER PURGING

Initial Static Water Level: 28.0 ft
One Well Volume:

2-Inch Casing:	6.5	Feet of Water x 0.16 Gallons/Foot =	1.0	Gallons	3.12 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 13 Gallons
Purging Device: Bailer
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
940	16.49	6.91	0.941	298	Water Turbid
950	17.01	7.09	0.002	152	Water Turbid
955	14.43	7.11	0.886	356	Water Turbid
1000	14.44	6.9	0.926	125	Water Turbid
1005	14.19	6.9	0.923	116	Water Turbid
1015	14.09	6.87	0.924	136	Water Turbid
1020	14.84	7.11	0.787	275	Water Turbid
1030	14.63	6.98	0.909	162	Water Turbid
1040	15.18	6.89	0.915	130	Water Turbid
1045	1430	6.92	0.917	87.7	Water Clear
1055	1390	6.99	0.922	72.2	Water Clear
1100	14.15	6.91	0.928	75.2	Water Clear
1105	13.93	6.92	0.926	65.4	Water Clear
1110	13.97	6.95	0.916	46.8	Water Clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-3**
DATE: 5/22/2012

WEATHER: 65F, light rain
TIME: 900

DEVELOPER: Allison Menges of Parsons
Lopa Naik of Parsons

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
1115	13.88	6.92	0.904	46	Water Clear
1120	13.81	6.94	0.903	44.9	Water Clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-5 **WEATHER:** 65F, light rain
DATE: 5/22/2012 **TIME:** 1250

DEVELOPER: Allison Menges of Parsons
Lopa Naik of Parsons

DESCRIPTION OF WELL

Total Depth: 47.9 ft Diameter: 2"
Screen Depth: 37.9-47.9 ft
Development Method: Bailer

GROUNDWATER PURGING

Initial Static Water Level: 27
One Well Volume:

2-Inch Casing:	20.7	Feet of Water x 0.16 Gallons/Foot =	3.3	Gallons	6.9 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 30 Gallons
Purging Device: Bailer
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
920	15.73	8.19	0.174	184	Water slightly turbid
925	14.65	7.58	0.527	723	Water slightly turbid
	14.23	7.35	0.135	865	Water slightly turbid
935	14.19	7.38	1.44	867	Water slightly turbid
940	14.16	7.44	1.46	450	Water slightly turbid
950	14.22	7.45	1.45	392	Water slightly turbid
1000	14.2	7.45	1.44	376	Water slightly turbid
1010	14.11	7.44	1.41	155	Water slightly turbid
1015	14.13	7.43	1.4	146	Water slightly turbid
1025	145.32	7.44	1.38	160	Water slightly turbid
1035	14.35	7.46	1.37	171	Water slightly turbid
1055	14.44	7.47	1.35	121	Water slightly turbid
1105	14.38	7.42	1.34	111	Water slightly turbid
1255				66.2	Water clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-3**
WEATHER: 65F, light rain
DATE: 5/22/2012
TIME: 1250

DEVELOPER: Allison Menges of Parsons
Lopa Naik of Parsons

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
1305				65.2	Water clear
1315				47.1	Water clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-8S** **WEATHER:** 67F,cloudy
DATE: 5/22/2012 **TIME:** 1330

DEVELOPER: Allison Menges of Parsons
Lopa Naik of Parsons

DESCRIPTION OF WELL

Total Depth: 35.0 ft Diameter: 2"
Screen Depth: 25-25ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 27.4
One Well Volume:

2-Inch Casing:	7.15	Feet of Water x 0.16 Gallons/Foot =	1.2	Gallons	3.4 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 30 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
1340	14.07	7.09	0.32	550	Water turibid
1345	14.12	6.95	0.322	362	Water turibid
1350	14.05	6.87	0.326	392	Water turibid
1355	14.08	6.82	0.327	235	Water turibid
1400	14.1	6.83	0.324	202	Water turibid
1405	14.16	6.83	0.322	113	Water turibid
1410	14.23	6.81	0.321	80.3	Water clear
1415	14.28	6.8	0.321	59.2	Water clear
1420	14.45	6.81	0.322	69.4	Water clear
1425	14.48	6.81	0.321	54.6	Water clear
1430	14.49	6.81	0.32	45.5	Water clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-8D** **WEATHER:** 67F,cloudy
DATE: 5/22/2012 **TIME:** 1300

DEVELOPER: Allison Menges of Parsons
Lopa Naik of Parsons

DESCRIPTION OF WELL

Total Depth: 58.4 ft Diameter: 2"
Screen Depth: 50-60 ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 27.65 ft
One Well Volume:

2-Inch Casing:	30.8	Feet of Water x 0.16 Gallons/Foot =	4.9	Gallons	14.7 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 15 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
1330	14.31	7.39	0.304	15.9	Water Clear
1335	13.63	7.06	0.451	5.3	Water Clear
1340	13.5	7.04	0.669	5.7	Water Clear
1345	13.41	7.09	0.69	0	Water Clear
1350	13.39	7.16	0.687	0	Water Clear
1355	13.38	7.2	0.68	0	Water Clear
1400	13.36	7.29	0.677	0	Water Clear
1405	13.36	7.29	0.676	0	Water Clear
1410	13.36	7.3	0.675	0	Water Clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-10S** **WEATHER:** 67F,cloudy
DATE: 5/22/2012 **TIME:** 1520

DEVELOPER: Allison Menges of Parsons
Lopa Naik of Parsons

DESCRIPTION OF WELL

Total Depth: 35 ft Diameter: 2"
Screen Depth: 25-35 ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 29.8
One Well Volume:

2-Inch Casing:	4.69	Feet of Water x 0.16 Gallons/Foot =	0.8	Gallons	2.2 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 20 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
1535	17.60	9.67	0.128	448	Water slightly turbid
1540	15.48	8.61	0.153	265	Water slightly turbid
1545	15.06	7.11	0.12	143	Water slightly turbid
1550	15.01	6.59	0.117	513	Water slightly turbid
1555	14.88	6.44	0.117	292	Water slightly turbid
1600	14.75	6.47	0.118	115	Water Clear
1605	14.78	6.45	0.117	97.6	Water Clear
1610	14.83	6.49	0.117	79.6	Water Clear
1615	14.77	6.58	0.117	44.8	Water Clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-10D** **WEATHER:** 67F,cloudy
DATE: 5/22/2012 **TIME:** 1500

DEVELOPER: Allison Menges of Parsons
Lopa Naik of Parsons

DESCRIPTION OF WELL

Total Depth: 58 ft Diameter: 2"
Screen Depth: 50-60 ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 29.6
One Well Volume:

2-Inch Casing:	28.4	Feet of Water x 0.16 Gallons/Foot =	4.6	Gallons	13.65 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 15 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
1500	14.14	7.55	0.654	619	Water turbid
1505	14.01	7.51	0.654	421	Water turbid
1515	14.2	7.49	0.663	126	Water turbid
1520	14.16	7.53	0.672	38.1	Water clear
1525	14.15	7.54	0.661	25.7	Water clear
1530	14.13	7.54	0.665	12.8	Water clear
1535	14.14	7.51	0.663	11	Water clear
1540	14.01	7.5	0.662	11.6	Water clear
1545	14.02	7.5	0.661	10.8	Water clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-11** **WEATHER:** 60F, partly sunny
DATE: 11/12/2012 **TIME:** 1400

DEVELOPER: Allison Menges of Parsons
of

DESCRIPTION OF WELL

Total Depth: 89 ft. Diameter: 2"
Screen Depth: 79-89 ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 28.52 ft
One Well Volume: (10 Volumes)

2-Inch Casing:	60.5	Feet of Water x 0.16 Gallons/Foot =	9.6	Gallons	96 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 96 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	DO	Comments
1405	13.10	7.30	2.08	OR	2.44	Very turbid
1410	13.05	7.64	1.69	OR	1.63	Very turbid
1415	13.03	8.01	1.42	OR	0.43	Very turbid
1420	13.05	8.1	1.52	OR	1.14	Very turbid
1425	1306	8.22	1.55	OR	0.05	Very turbid
1430	13.06	8.31	1.41	OR	0.07	Very turbid
1435	13.02	8.36	1.27	OR	0.15	Very turbid
1440	13	8.38	1.18	OR	0.28	Very turbid
1445	13.01	8.42	1.13	OR	0.36	Very turbid
1450	12.97	8.42	1.06	391	0.46	Very turbid
1455	13.06	8.46	1.01	OR	0.5	Very turbid
1500	12.99	8.45	0.992	425	0.62	Turbid
1505	12.97	8.42	0.986	162	0.73	Less turbid
1510	12.96	8.41	0.97	95	0.77	Less turbid
1515	12.95	8.4	0.955	62.5	0.81	Clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-12 **WEATHER:** 60F, partly sunny
DATE: 11/12/2012 **TIME:** 1200

DEVELOPER: Allison Menges of Parsons
of

DESCRIPTION OF WELL

Total Depth: 35 ft Diameter: 2"
Screen Depth: 25-35 ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 28.2 ft
One Well Volume: (10 Volumes)

2-Inch Casing:	6.8	Feet of Water x 0.16 Gallons/Foot =	1.0	Gallons	10 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 10 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	DO	Comments
1205	15.35	7.18	0.688	OR	5.36	Turbid
1210	15.25	7.09	0.680	OR	3.5	Turbid
1215	15.06	6.93	0.666	277	1.59	Less turbid
1220	14.94	6.83	0.658	189	1.13	Less turbid
1225	14.85	6.78	0.649	99.2	0.92	Less turbid
1230	14.8	6.74	0.640	82.8	0.93	Less turbid
1235	14.76	6.70	0.632	86.4	0.89	Less turbid
1240	14.71	6.66	0.622	50.7	0.84	Clear
1245	14.65	6.62	0.612	48.4	0.82	Clear
1250	14.6	6.59	0.606	37	0.81	Clear
1255	14.53	6.56	0.601	33.5	0.81	Clear
1300	14.5	6.54	0.597	31.3	0.8	Clear
1305	14.48	6.53	0.596	29.6	0.82	Clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-13** **WEATHER:** 60F, partly sunny
DATE: 11/12/2012 **TIME:** 1205

DEVELOPER: Sara Weishaupt of Parsons
of

DESCRIPTION OF WELL

Total Depth: 35 ft Diameter: 2"
Screen Depth: 25-35 ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 25.7 ft
One Well Volume: (10 Volumes)

2-Inch Casing:	9.3	Feet of Water x 0.16 Gallons/Foot =	1.5	Gallons	16 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 16 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	DO	Comments
1205	16.90	7.95	0.325	OR	8.35	Tan/brown; turbid
1210	16.13	7.16	0.350	OR	7.1	Tan/brown; turbid
1215	15.89	6.93	0.401	522	5.68	Tan/brown; turbid
1220	15.82	6.87	0.423	138	5.06	Clearer
1225	15.78	6.84	0.426	42.4	4.98	Clearer
1235	15.73	6.84	0.426	51.2	4.98	Clearer
1240	15.78	6.84	0.426	31.7	4.98	Clearer
1245	16.05	6.89	0.431	30.4	4.34	Clearer
1250	16.06	6.90	0.434	24.9	4.31	Clearer
1255	16.23	6.87	0.434	20.7	4.09	Clearer

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-14** **WEATHER:** 60F, partly sunny
DATE: 11/12/2012 **TIME:** 1400

DEVELOPER: Sara Weishaupt of Parsons
of

DESCRIPTION OF WELL

Total Depth: 33.9 ft Diameter: 2"
Screen Depth: 25-35 ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 23.4 ft
One Well Volume: (10 Volumes)

2-Inch Casing:	10.5	Feet of Water x 0.16 Gallons/Foot =	1.7	Gallons	17 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 17 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	DO	Comments
1400	14.97	7.49	0.304	OR	12.13	Tan/brown, turbid
1405	23.4	7.31	0.317	525	10.11	Tan/brown, turbid
1410	14.78	7.3	0.317	120	9.91	Tan/brown, turbid
1415	14.75	7.22	0.316	29.5	9.43	Clear
1420	14.8	7.25	0.314	19.5	9.12	Clear
1425	14.79	7.23	0.318	10.7	8.88	Clear
1430	14.76	7.22	0.316	6.22	8.71	Clear
1435	14.79	7.23	0.317	5.28	8.53	Clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: **MW-15** **WEATHER:** 60F, partly sunny
DATE: 11/13/2012 **TIME:** 1220

DEVELOPER: Sara Weishaupt of Parsons
Allison Menges of Parsons

DESCRIPTION OF WELL

Total Depth: 35 ft Diameter: 2"
Screen Depth: 25-35 ft
Development Method: Monsoon Pump

GROUNDWATER PURGING

Initial Static Water Level: 28.2 ft
One Well Volume: (10 Volumes)

2-Inch Casing:	6.8	Feet of Water x 0.16 Gallons/Foot =	1.1	Gallons	11 Gallons
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 15 Gallons
Purging Device: Monsoon Pump
Purge Water Disposition (e.g., contained): 55 Gallon Steel Drum

FIELD MEASUREMENTS

Time	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	DO	Comments
1220	14.29	7.17	1.00	OR	6.68	Turbid
1225	14.5	7.19	1.00	OR	8.18	Turbid
1230	14.73	7.21	1.01	685	8.71	Cloudy
1235	14.82	7.24	1.03	226	8.03	Cloudy
1240	14.84	7.25	1.01	27	7.5	Clear
1245	14.85	7.25	0.984	15.5	6.8	Clear
1250	14.87	7.26	0.969	7.2	6.63	Clear
1255	14.87	7.27	0.969	6.29	6.4	Clear
1300	14.92	7.29	0.963	6.14	3.9	Clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-16 **WEATHER:** Cold, Breezy, Sunny
DATE: 12/4/2015 **TIME:** 07:30

DEVELOPER: Steve Laramee of Geologic
Ellen Paccia of Parsons

DESCRIPTION OF WELL

Total Depth: 36 ft Diameter: 2"
Screen Depth: 36-26 ft
Development Method: Whale Pump

GROUNDWATER PURGING

Initial Static Water Level: 25.53
One Well Volume: (10 Volumes)

2-Inch Casing:	10.47	Feet of Water x 0.16 Gallons/Foot =	1.7	Gallons	16.80
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 22 Gallons
Purging Device: Bailer
Purge Water Disposition (e.g., contained): 55 gallon steel drum.

FIELD MEASUREMENTS

Gallons	Temp. (Degrees C)	pH	Conductivity (mS/cm)	Turbidity (NTUs)	Comments
<0.25					tried whale pump, switched to bailers.
2	8.40	8.09	0.302	OR	
4	13.25	7.64	0.405	OR	
6	13.88	7.57	0.598	OR	
8	14.06	7.54	0.397	OR	
10	14.12	7.50	0.397	OR	
12	14.26	7.47	0.397	OR	
14	14.29	7.47	0.395	OR	
16	14.36	7.46	0.397	OR	
18	14.48	7.46	0.394	OR	
20	14.39	7.46	0.398	OR	
22	14.52	7.43	0.398	OR	

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-17 **WEATHER:** Windy, Part Sun/Part Cloudy
DATE: 12/3/2015 **TIME:**

DEVELOPER: Steve Laramee of Geologic
Ellen Paccia of Parsons

DESCRIPTION OF WELL

Total Depth: 39 ft Diameter: 2"
Screen Depth: 29-39 ft
Development Method: Whale Pump

GROUNDWATER PURGING

Initial Static Water Level: 24.8

One Well Volume:					(10 Volumes)
2-Inch Casing:	14.2	Feet of Water x 0.16 Gallons/Foot =	2.2	Gallons	22.0
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 22.5 Gallons
Purging Device: Whale Pump and Bailer
Purge Water Disposition (e.g., contained): 55 gallon steel drum.

FIELD MEASUREMENTS

Gallons	Temp. (Degrees C)	pH	Conductivity (mS/cm)	Turbidity (NTUs)	Comments
2.5	14.79	7.66	0.439	241	
5.0	14.95	7.49	0.431	156	
7.5	14.81	7.85	0.411	92.3	
10.0	14.78	7.76	0.415	63.5	
12.5	13.70	8.35	0.415	0.0	
15.0	14.08	8.30	0.395	0.0	Whale pump died, switched to bailer
17.5	14.17	8.30	0.393	0.0	
20.0	14.27	8.30	0.390	0.0	
22.5	14.29	8.31	0.388	0.0	

LOW FLOW WELL SAMPLING RECORD

Site Name: *Former Temco Uniforms Site* Well ID: MW-1 Well Diameter: 2 Inches

Samplers: A. Menges / L. Naik Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
(35 - 30.73) x 0.16 = 0.68				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @1315

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	
13:15		300	0.50	6.90	8.36	272.0	0.629	19.00	
13:20		300	1.00	7.02	6.70	156.0	0.589	18.25	
13:25		400	2.50	6.98	5.53	48.1	0.572	17.68	
13:30		400	3.50	6.90	6.12	44.0	0.566	17.73	
13:35		300	4.00	7.02	6.00	34.6	0.564	18.10	
13:40		300	4.50	7.02	6.20	37.4	0.563	18.15	

Sampling Data

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @1340 Total Volume of Water purged: 4.5 gal

Field Parameters

HORRIBA		HACH TEST KITS	
pH	7.02	Alkalinity (g/g)	NA
Spec. Cond.(mS/cm)	0.563	Carbon Dioxide (mg/L)	NA
Turbidity (NTU)	37.4	Ferrous Iron (mg/L)	NA
DO (mg/L)	6.2	Manganese (mg/L)	NA
Temp.(°C)	18.15	Hydrogen Sulfide (mg/L)	NA

* NOTE * HACH test kits are only required for MNA analysis wells.

SAMPLE SET			
Parameter	**Bottle**	**Pres.**	**Method**
TCL VOCs	3-40mL glass vial	HCl	EPA 8260

Comments: Sample ID = MW-01_052312

PARSONS

LOW FLOW WELL SAMPLING RECORD

Site Name: *Former Temco Uniforms Site* Well ID: MW-3 Well Diameter: 2 Inches

Samplers: A. Menges / L. Naik Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
(34.5 - 28.0) x 0.16 = 1.04				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Monsoon Pump Low Flow Date/Time: 5/23/12 @0900

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	
9:00		300	0.50	7.25	7.96	76.9	0.826	18.30	
9:05		300	1.00	7.20	7.22	47.4	0.826	18.34	
9:10		300	1.50	7.21	7.24	33.5	0.827	18.33	
9:15		300	2.00	7.16	7.23	23.7	0.825	18.30	
9:20		300	2.50	7.15	7.22	20.1	0.823	18.35	

Sampling Data

Method: Monsoon Pump Low Flow Date/Time: 5/23/12 @0920 Total Volume of Water purged: 2.5 gal

Field Parameters

HORRIBA		HACH TEST KITS	
pH	7.15	Alkalinity (g/g)	NA
Spec. Cond.(mS/cm)	0.823	Carbon Dioxide (mg/L)	NA
Turbidity (NTU)	20.1	Ferrous Iron (mg/L)	NA
DO (mg/L)	7.2	Manganese (mg/L)	NA
Temp.(°C)	18.35	Hydrogen Sulfide (mg/L)	NA

* NOTE * HACH test kits are only required for MNA analysis wells.

SAMPLE SET			
Parameter	**Bottle**	**Pres.**	**Method**
TCL VOCs	3-40mL glass vial	HCl	EPA 8260

Comments: Sample ID = MW-03_052312

PARSONS

LOW FLOW WELL SAMPLING RECORD

Site Name: *Former Temco Uniforms Site* Well ID: MW-5 Well Diameter: 2 Inches

Samplers: A. Menges / L. Naik Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
(34.5 - 27.55) x 0.16 = 1.2				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @0845

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	
8:45	27.55	300	0.50	8.09	6.18	72.4	1.330	16.62	
8:50	27.55	300	1.00	7.92	8.31	52.5	1.310	16.34	
8:55	27.55	300	1.50	7.77	9.33	38.2	1.280	17.04	
9:00	27.55	300	2.00	7.78	9.56	29.0	1.300	16.76	
9:05	27.55	300	2.50	7.68	10.79	20.8	1.340	15.68	
9:10	27.55	300	3.00	7.60	11.26	16.3	1.350	15.34	

Sampling Data

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @0910 Total Volume of Water purged: 3.0 gal

Field Parameters

HORRIBA		HACH TEST KITS	
pH	7.60	Alkalinity (g/g)	NA
Spec. Cond.(mS/cm)	1.340	Carbon Dioxide (mg/L)	NA
Turbidity (NTU)	16.3	Ferrous Iron (mg/L)	NA
DO (mg/L)	11.3	Manganese (mg/L)	NA
Temp.(°C)	15.34	Hydrogen Sulfide (mg/L)	NA

* NOTE * HACH test kits are only required for MNA analysis wells.

SAMPLE SET			
Parameter	**Bottle**	**Pres.**	**Method**
TCL VOCs	3-40mL glass vial	HCl	EPA 8260

Comments: Sample ID = MW-05_052312

Duplicate Collected from this location

LOW FLOW WELL SAMPLING RECORD

Site Name: *Former Temco Uniforms Site* Well ID: MW-8S Well Diameter: 2 Inches

Samplers: A. Menges / L. Naik Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
(34.5 - 27.35) x 0.16 = 1.2				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @0950

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	
9:50	27.35	300	0.50	8.77	23.42	565.0	0.331	19.98	
9:55	27.35	300	1.00	8.21	13.23	621.0	0.318	18.46	
10:00	27.35	300	1.50	7.64	11.82	214.0	0.314	16.75	
10:05	27.35	300	2.00	7.58	11.29	83.7	0.323	16.62	
10:10	27.35	300	2.50	7.51	10.66	38.4	0.321	16.29	
10:15	27.35	300	3.00	7.42	10.70	28.6	0.319	16.10	
10:20	27.35	300	3.50	7.31	10.99	22	0.316	16.03	

Sampling Data

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @1020 Total Volume of Water purged: 4.0 gal

Field Parameters

HORRIBA		HACH TEST KITS	
pH		Alkalinity (g/g)	NA
Spec. Cond.(mS/cm)		Carbon Dioxide (mg/L)	NA
Turbidity (NTU)		Ferrous Iron (mg/L)	NA
DO (mg/L)		Manganese (mg/L)	NA
Temp.(°C)		Hydrogen Sulfide (mg/L)	NA

* NOTE * HACH test kits are only required for MNA analysis wells.

SAMPLE SET			
Parameter	**Bottle**	**Pres.**	**Method**
TCL VOCs	3-40mL glass vial	HCl	EPA 8260

Comments: Sample ID = MW-8S_052312

PARSONS

LOW FLOW WELL SAMPLING RECORD

Site Name: *Former Temco Uniforms Site* Well ID: MW-8D Well Diameter: 2 Inches

Samplers: A. Menges / L. Naik Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
(58.4 - 27.65) x 0.16 = 4.92				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @1000

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	
10:00		300	0.20	7.42	6.88	16.9	0.315	21.15	
10:05		300	0.50	7.31	5.62	1.3	0.317	20.75	
10:10		300	1.00	7.40	6.00	0.3	0.318	20.11	
10:15		300	1.50	7.38	5.96	0.2	0.319	20.00	

Sampling Data

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @1015 Total Volume of Water purged: 1.5 gal

Field Parameters

HORRIBA		HACH TEST KITS	
pH	7.38	Alkalinity (g/g)	NA
Spec. Cond.(mS/cm)	0.319	Carbon Dioxide (mg/L)	NA
Turbidity (NTU)	0.2	Ferrous Iron (mg/L)	NA
DO (mg/L)	6.0	Manganese (mg/L)	NA
Temp.(°C)	20.00	Hydrogen Sulfide (mg/L)	NA

* NOTE * HACH test kits are only required for MNA analysis wells.

SAMPLE SET			
Parameter	**Bottle**	**Pres.**	**Method**
TCL VOCs	3-40mL glass vial	HCl	EPA 8260

Comments: Sample ID = MW-8D_052312

Collected MS/MSD quantity at this location

PARSONS

LOW FLOW WELL SAMPLING RECORD

Site Name: *Former Temco Uniforms Site* Well ID: MW-10S Well Diameter: 2 Inches

Samplers: A. Menges / L. Naik Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
(34.5 - 29.30) x 0.16 = 1.0				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @1050

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	
10:50	29.30	300	0.50	8.78	11.48	418.0	0.207	17.28	
10:55		300		8.12	11.53	727.0	0.125	17.76	
11:00		300		6.80	11.09	510.0	0.114	16.11	
11:05		300		6.65	10.97	253.0	0.114	15.47	
11:10		300		6.65	11.10	119.0	0.115	15.44	
11:15		300		6.70	10.63	169.0	0.116	15.78	
11:20		300		6.73	10.63	252	0.115	16.02	
11:25		300		6.67	10.70	178.000	0.114	16.20	
11:30		300		6.68	10.88	473.000	0.114	16.22	
11:35		300		6.68	11.12	225.000	0.115	16.19	
11:45		300		6.62	10.83	99.000	0.114	16.43	
11:50		300		6.65	10.88	73.100	0.113	16.51	
				6.57	10.72	49.000	0.108	16.91	

Sampling Data

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @1150 Total Volume of Water purged:

Field Parameters

HORRIBA		HACH TEST KITS	
pH		Alkalinity (g/g)	NA
Spec. Cond.(mS/cm)		Carbon Dioxide (mg/L)	NA
Turbidity (NTU)		Ferrous Iron (mg/L)	NA
DO (mg/L)		Manganese (mg/L)	NA
Temp.(°C)		Hydrogen Sulfide (mg/L)	NA

* NOTE * HACH test kits are only required for MNA analysis wells.

SAMPLE SET			
Parameter	**Bottle**	**Pres.**	**Method**
TCL VOCs	3-40mL glass vial	HCl	EPA 8260

Comments: Sample ID = MW-10S_052312

LOW FLOW WELL SAMPLING RECORD

Site Name: *Former Temco Uniforms Site* Well ID: MW-10D Well Diameter: 2 Inches

Samplers: A. Menges / L. Naik Monitored Natural Attenuation Sample Set (Y/N)? N

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
(58.0 - 29.61) x 0.16 = 4.54				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @1100

Time	DTW	Pump Rate	Vol.	pH	DO	Turbidity	Spec. Cond.	Temp.	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	NTU	mS/cm	°C	
11:00		300	0.20	7.46	6.26	608.0	0.558	17.31	
11:05		300	0.50	7.58	7.03	425.0	0.559	17.30	
11:10		300	1.00	7.59	6.55	237.0	0.623	15.65	
11:15		300	1.50	7.61	6.76	150.0	0.632	15.42	
11:20		300	2.00	7.63	5.72	121.0	0.635	15.65	
11:25		300	2.50	7.65	7.00	83.0	0.630	15.67	
11:30		300	4.00	7.63	6.63	59	0.631	15.37	
11:35		300	5.00	7.65	6.20	42.000	0.638	15.41	
11:40		300	5.50	7.65	6.25	30.000	0.641	15.58	
11:45		300	6.00	7.65	6.30	20.500	0.641	15.76	

Sampling Data

Monsoon Pump

Method: Low Flow Date/Time: 5/23/12 @1145 Total Volume of Water purged: 6.0 gal

Field Parameters

HORRIBA		HACH TEST KITS	
pH	7.65	Alkalinity (g/g)	NA
Spec. Cond.(mS/cm)	0.641	Carbon Dioxide (mg/L)	NA
Turbidity (NTU)	20.5	Ferrous Iron (mg/L)	NA
DO (mg/L)	6.3	Manganese (mg/L)	NA
Temp.(°C)	15.76	Hydrogen Sulfide (mg/L)	NA

* NOTE * HACH test kits are only required for MNA analysis wells.

SAMPLE SET			
Parameter	**Bottle**	**Pres.**	**Method**
TCL VOCs	3-40mL glass vial	HCl	EPA 8260

Comments: Sample ID = MW-10D_052312

Collected MS/MSD quantity at this location

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	8/29/16 @ 1255		
Weather:	Sunny, Mid 80's		
Samplers:	Aaron Feshbach-Meriney	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-1		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	32.38				
Depth to Well Bottom (Ft.):	34.52				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	2.14	x 0.16 =	0.35	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:					
Method:	Low Flow Monsoon				

SAMPLE DESCRIPTION

Odor:	None
Other:	

FIELD TESTS

Temperature:	18.79	Turbidity:	38.1
pH:	5.75	Dissolved O2:	1.21
Conductivity:	0.761	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS Pump Depth is 2" off bottom of well

* Used LaMotte Turbidimeter 2020 for Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-1 **WEATHER:** Sunny, Mid 80's
DATE: 42611 **TIME:** 1255

DEVELOPER: Allison Menges of PARSONS
of

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1220	33.15	100	0.50	5.84	1.28	0.775	22.32	0.0	
1225	33.26	100	1.00	5.77	1.49	0.763	19.26	72.3	
1230	33.30	100	1.50	5.76	1.55	0.757	19.39	36.3	
1235	33.30	100	2.00	5.70	1.21	0.758	19.35	32.8	
1240	33.30	100	2.50	5.72	1.16	0.758	19.37	38.6	
1245	33.31	100	3.00	5.76	1.10	0.760	19.15	41.2	
1250	33.31	100	3.50	5.75	1.21	0.761	18.79	36.1	
1255	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 8/30/16 *Did Not Sample
Weather: Sunny, 90's
Samplers: Aaron Feshbach-Meriney of PARSONS
of PARSONS

SAMPLE ID: MW-3
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 29.19
Depth to Well Bottom (Ft.): 45.11

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	15.92	x 0.16 =	2.6	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged: none
Method: Low Flow Monsoon Pump

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature: none
pH: none
Conductivity: none
Turbidity: none
Dissolved O2: none
Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: 8260 TCL VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS Did not sample. Pump couldn't fit down well, obstruction @ about 7 ft
(Possibly Casing Integrity)

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-3 **WEATHER:**
DATE: **TIME:**

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	09-1-16 @ 0905		
Weather:	Mid 80's, Rain		
Samplers:	Kevin McMullen	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-5		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	29.67				
Depth to Well Bottom (Ft.):	34.2				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	4.53	x 0.16 =	0.73	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:	7				
Method:	Low Flow Monsoon				

SAMPLE DESCRIPTION

Odor:	None
Other:	

FIELD TESTS

Temperature:	13.53	Turbidity:	1.54
pH:	6.44	Dissolved O2:	6.72
Conductivity:	0.306	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-5 **WEATHER:** Rain, Mid 80's
DATE: 9/1/2016 **TIME:** 0825

DEVELOPER: _____ of PARSONS
_____ of _____

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
0830	29.71	175	0.80	14.54	6.85	0.303	14.33	134.0	
0835	29.71	175	1.70	6.24	6.73	0.307	13.85	46.5	
0840	29.71	175	2.50	6.31	6.76	0.306	13.78	10.7	
0845	29.71	175	3.30	6.38	6.71	0.305	13.69	6.6	
0850	29.71	175	4.28	6.45	6.75	0.306	13.58	3.3	
0855	29.71	175	5.88	6.44	6.73	0.307	13.53	2.7	
0900	29.71	175	6.33	6.44	6.72	0.306	13.51	1.9	
0905	29.71	175	7.00	6.44	6.72	0.3	13.53	1.5	

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 9/1/2016 *Did Not Sample
Weather: Rain, 70's muggy
Samplers: Aaron Feshbach-Meriney of PARSONS
of PARSONS

SAMPLE ID: MW-7
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC):
Depth to Well Bottom (Ft.):

CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	0	x 0.16 =	0	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged:
Method: Low Flow Monsoon

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature: Turbidity:
pH: Dissolved O2:
Conductivity: Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: 8260 TCL VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

Not enough water in well to pump. The water that is available is sediment heavy sludge
Can't even surge to develop the well

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: _____ **WEATHER:** _____
DATE: _____ **TIME:** _____

DEVELOPER: _____ of PARSONS
_____ of _____

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	8/30/16 @ 1030		
Weather:	Sunny, 90's No Wind		
Samplers:	Aaron Feshbach-Meriney	of	PARSONS
		of	
SAMPLE ID:	MW-8S		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	28.96				
Depth to Well Bottom (Ft.):	33.94				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	4.98	x 0.16 =	0.8	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:					
Method:	Low Flow Monsoon				

SAMPLE DESCRIPTION

Odor:	Slight Odor
Other:	

FIELD TESTS

Temperature:	13.86	Turbidity:	12.86
pH:	6.38	Dissolved O2:	7.99
Conductivity:	0.184	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8620 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-8S **WEATHER:** Sunny, 90's
DATE: 8/30/16 **TIME:** 1030

DEVELOPER: Allison Menges of PARSONS
of

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
0945	29.25	200	1.00	7.33	9.06	0.178	13.55	1603.0	
0950	29.21	190	2.00	6.98	8.78	0.185	13.49	52.0	
0955	29.21	190	3.20	6.66	8.16	0.184	13.22	24.0	
1000	29.21	190	4.00	6.53	8.09	0.184	13.40	14.7	
1005	29.21	190	4.50	6.48	8.01	0.184	13.42	13.1	
1010	29.21	190	5.20	6.33	8.00	0.184	15.23	12.8	outlier temp
1015	29.21	190	6.50	6.40	8.00	0.183	13.91	13.06	
1020	29.21	190	7.00	6.38	8.00	0.183	13.85	12.97	
1025	29.21	190	8.00	6.38	7.99	0.184	13.86	12.9	
1030	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 8/30/16 @ 1150
Weather: Sunny, 90's
Samplers: Aaron Feshbach-Meriney of PARSONS
of PARSONS

SAMPLE ID: MW-8D
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 29.3
Depth to Well Bottom (Ft.): 58.45

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	29.15	x 0.16 =	4.7	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged:
Method: Low Flow Monsoon Pump

SAMPLE DESCRIPTION

Odor: None
Other:

FIELD TESTS

Temperature:	16.46	Turbidity:	21
pH:	7.2	Dissolved O2:	5.92
Conductivity:	0.737	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: 8620 TCL VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-8D **WEATHER:** Sunny, 90's
DATE: 8/30/2016 **TIME:** 1150

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1050	29.33	200	0.30	6.29	8.03	0.583	17.17	826.0	
1055	29.33	200	1.00	6.76	6.06	0.601	17.40	78.0	
1100	29.33	200	1.50	6.92	5.95	0.620	17.66	45.0	
1105	29.33	200	2.00	7.01	5.63	0.618	18.34	73.6	
1110	29.33	200	2.50	7.06	5.66	0.634	17.80	73.8	
1115	29.33	200	3.00	7.08	5.64	0.646	17.82	62.0	
1120	29.33	200	3.70	7.12	6.07	0.685	16.38	43.7	
1125	29.33	200	4.00	7.14	5.94	0.706	16.17	35.2	
1130	29.33	200	4.50	7.15	5.89	0.713	16.57	28.3	
1135	29.33	200	5.00	7.17	5.89	0.722	16.40	21.1	
1140	29.33	200	5.50	7.19	5.70	0.724	16.90	21.7	
1145	29.33	200	6.00	7.20	5.92	0.737	16.46	21.0	
1150	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	9/1/2016 @ 1050		
Weather:	Rainy, 70's		
Samplers:	Aaron Feshbach-Meriney	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-9		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	31.27				
Depth to Well Bottom (Ft.):	34.08				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	2.81	x 0.16 =	0.45	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:					
Method:	Low Flow Monsoon				

SAMPLE DESCRIPTION

Odor:	Yes
Other:	

FIELD TESTS

Temperature:	12.32	Turbidity:	56.2
pH:	6.33	Dissolved O2:	9.48
Conductivity:	0.482	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-9 **WEATHER:** Rainy, 70's
DATE: 9/1/16 **TIME:** 1050

DEVELOPER: _____ of PARSONS
_____ of _____

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
0930	Start Developing Well								
1010	Set up purge equipment								
1015	32.89	250	2.00	6.30	9.81	0.512	12.90	87.0	
1020	32.93	250	3.20	6.38	9.70	0.502	12.33	62.7	
1025	32.93	250	4.40	6.36	9.62	0.498	12.30	50.1	
1030	32.94	250	5.60	6.35	9.59	0.491	12.27	55.9	
1035	32.94	250	7.00	6.32	9.55	0.486	12.18	57.2	
1040	32.94	250	7.90	6.30	9.51	0.482	12.28	56.1	
1045	32.94	250	9.60	6.33	9.48	0.482	12.32	56.2	
1050	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	8/29/16 @ 1450		
Weather:	Sunny, Mid 80's		
Samplers:	Aaron Feshbach-Meriney	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-10S		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	30.9				
Depth to Well Bottom (Ft.):	33.95				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	3.05	x 0.16 =	0.49	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:					
Method:	Low Flow Monsoon				

SAMPLE DESCRIPTION

Odor:	None
Other:	

FIELD TESTS

Temperature:	12.71	Turbidity:	9.9
pH:	6.32	Dissolved O2:	8.64
Conductivity:	0.244	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-10S **WEATHER:** Sunny, Mid 80's
DATE: 8/29/16 **TIME:** 1450

DEVELOPER: _____ of PARSONS
_____ of _____

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1400	32.41	200	0.50	6.29	9.16	0.247	14.54	3514.0	
1405	32.35	200	2.00	6.18	9.03	0.251	12.71	690.0	
1410	32.30	200	4.00	6.26	8.63	0.251	12.55	97.6	
1415	32.27	200	5.00	6.17	8.89	0.252	12.45	41.2	
1420	32.23	200	6.50	6.30	8.68	0.252	12.47	21.5	
1425	32.23	200	7.50	6.21	8.71	0.250	12.27	17.2	
1430	32.23	200	9.00	6.39	8.90	0.249	12.31	11.3	
1435	32.23	200	10.00	6.33	8.25	0.246	12.33	9.4	
1440	32.23	200	11.50	6.35	8.79	0.245	12.21	10.1	
1445	32.24	200	13.00	6.32	8.64	0.244	12.71	9.9	
1450	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	8/29/16 @ 1559		
Weather:	Sunny, Mid 80's		
Samplers:	Aaron Feshbach-Meriney	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-10D		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	31.21				
Depth to Well Bottom (Ft.):	57				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	25.79	x 0.16 =	4.2	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:					
Method:	Low Flow Monsoon Pump				

SAMPLE DESCRIPTION

Odor:	None
Other:	

FIELD TESTS

Temperature:	14.22	Turbidity:	29.9
pH:	7.23	Dissolved O2:	6.6
Conductivity:	0.714	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS

* LaMotte Turbidimeter 2020 used for all Turbidity
Left dedicated tubing in the well
Visbly Turbid @ start of purge

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-10D **WEATHER:** Sunny, Mid 80's
DATE: 8/29/2016 **TIME:** 1559

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1514	31.28	100	0.00	6.07	7.04	0.532	18.93	768	
1519	31.28	100	1.00	6.53	6.40	0.686	15.17	780	
1524	31.28	100	1.50	6.86	6.46	0.702	14.32	96	Water visibly
1529	31.28	100	2.00	7.02	6.40	0.715	14.24	78	Cleared up
1534	31.28	100	3.00	7.04	6.41	0.713	13.93	31	
1539	31.28	100	4.00	7.14	6.37	0.694	14.20	30.8	
1544	31.28	100	5.00	7.20	6.81	0.670	14.41	30.6	
1549	31.28	100	6.00	7.20	6.64	0.700	14.33	30.1	
1554	31.28	100	7.00	7.23	6.60	0.714	14.22	29.9	
1559	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	8/30/16 @ 1500		
Weather:	Sunny, 90's		
Samplers:	Aaron Feshbach-Meriney	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-11		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	30.2				
Depth to Well Bottom (Ft.):	84.89				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	54.69	x 0.16 =	8.76	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:					
Method:	Low Flow Monsoon				

SAMPLE DESCRIPTION

Odor:	None
Other:	

FIELD TESTS

Temperature:	17.48	Turbidity:	19.1
pH:	7.51	Dissolved O2:	0.81
Conductivity:	0.933	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCS
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-11 **WEATHER:** Slightly OverCast, 90's
DATE: 8/30/16 **TIME:** 1500

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1410	31.41	275	0.2	7.64	2.24	0.796	22.18	1845.0	very turbid
1415	31.55	275	1.0	7.52	1.04	0.835	19.00	2162.0	
1420	31.70	175	2.0	7.43	0.83	0.896	17.78	109.0	turbidity clears up
1425	29.99	175	2.5	7.44	0.78	0.908	17.97	44.5	
1430	30.01	175	3.0	7.47	0.77	0.919	17.54	44.8	
1435	30.02	175	4.0	7.48	0.80	0.924	17.15	25.3	
1440	30.02	175	4.6	7.50	0.79	0.930	17.23	22.4	
1445	30.02	175	5.0	7.49	0.82	0.935	17.51	18.8	
1450	30.02	175	5.5	7.51	0.83	0.930	17.21	19.5	
1455	30.02	175	6.0	7.51	0.81	0.933	17.48	19.1	
1500	Collect Sample								

PARSONS
)UNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	09-1-16 @ 1025		
Weather:	High 80's, Rain		
Samplers:	Kevin McMullen	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-12		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	29.21				
Depth to Well Bottom (Ft.):	34.7				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	5.49	x 0.16 =	0.88	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:	8 Gallons				
Method:	Low Flow Monsoon				

SAMPLE DESCRIPTION

Odor:	None
Other:	

FIELD TESTS

Temperature:	15.25	Turbidity:	2.6
pH:	6.62	Dissolved O2:	7.3
Conductivity:	0.601	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-12 **WEATHER:** High 80's, Rain
DATE: 9-1-16 **TIME:** 0945

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
0945	29.25	175	0.75	4.73	8.71	0.715	17.30	3500.0	
0950	29.31	175	1.62	6.61	8.03	0.709	16.11	3096.0	
0955	29.32	175	2.42	6.64	7.74	0.685	15.82	991.0	
1000	29.32	175	3.21	6.64	7.64	0.673	15.42	85.5	
1005	29.32	175	4.02	6.64	7.56	0.646	15.28	33.4	
1010	29.33	175	4.77	6.66	7.39	0.618	15.21	11.0	
1015	29.33	175	5.57	6.65	7.33	0.601	15.24	6.1	
1020	29.33	175	7.01	6.64	7.31	0.600	15.23	3.9	
1025	29.33	175	8.00	6.62	7.30	0.601	15.25	2.6	

PARSONS
)UNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	09-1-16 @ 1140		
Weather:	High 80's, Rain		
Samplers:	Kevin McMullen	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-13		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	26.61				
Depth to Well Bottom (Ft.):	34.65				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	8.04	x 0.16 =	1.29	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:	10 Gallons				
Method:	Low Flow Monsoon Pump				

SAMPLE DESCRIPTION

Odor:	None
Other:	

FIELD TESTS

Temperature:	14.51	Turbidity:	3.94
pH:	6.52	Dissolved O2:	6.27
Conductivity:	0.826	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-13 **WEATHER:** High 80's, Rain
DATE: 9-1-16 **TIME:** 1055

DEVELOPER: Sara Weishaupt of PARSONS
of

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1055	26.74	175	0.8	6.63	7.96	0.743	15.20	2549.00	
1100	26.74	175	1.9	6.55	7.05	0.778	14.56	952.00	
1105	26.74	175	2.9	6.50	6.62	0.831	14.38	64.10	
1110	26.77	175	3.9	6.53	6.51	0.840	14.39	20.30	
1115	26.77	175	4.9	6.48	6.29	0.835	14.53	10.16	
1120	26.75	175	5.9	6.49	6.32	0.831	14.56	6.57	
1125	26.75	175	6.9	6.49	6.33	0.830	14.55	9.76	Raise Pump Rate/
1130	26.75	200	8.0	6.47	6.28	0.828	14.53	4.27	Rise in Turbidity
1135	26.75	200	9.1	6.51	6.27	0.828	14.50	4.11	
1140	26.75	200	10.0	6.52	6.27	0.826	14.51	3.94	

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	9/1/16 @ 1215		
Weather:	Rainy, 70's humid		
Samplers:	Aaron Feshbach-Meriney	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-14		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	24.36				
Depth to Well Bottom (Ft.):	33.41				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	9.05	x 0.16 =	1.448	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:					
Method:	Low Flow Monsoon Pump				

SAMPLE DESCRIPTION

Odor:	Slight
Other:	

FIELD TESTS

Temperature:	13.56	Turbidity:	14.1
pH:	6.45	Dissolved O2:	5.9
Conductivity:	0.779	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * "LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-14 **WEATHER:** Rain, 70's
DATE: 9/1/16 **TIME:** 1215

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1125	24.42	175	1.0	6.22	6.89	0.807	13.70	error	high turbidity
1130	24.42	175	1.7	6.35	6.83	0.786	13.45	3234.0	
1135	24.42	175	2.5	6.43	6.56	0.787	13.46	729.0	
1140	24.42	175	3.1	6.46	6.35	0.795	13.43	120.0	clearing up turbidity
1145	24.42	175	4.2	6.47	6.22	0.800	13.35	44.0	
1150	24.42	175	5.0	6.43	6.02	0.794	13.40	26.5	
1155	24.42	175	6.0	6.48	6.06	0.786	13.39	20.5	
1200	24.42	175	6.9	6.46	5.95	0.783	13.46	15.4	
1205	24.42	175	7.6	6.46	5.88	0.781	13.56	12.2	
1210	24.42	175	8.0	6.45	5.90	0.779	13.56	14.1	
1215	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 8/31/16 @ 0905
Weather: Overcast, 80's
Samplers: Aaron Feshbach-Meriney of PARSONS
of PARSONS

SAMPLE ID: MW-15
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 29.35
Depth to Well Bottom (Ft.): 35.02

CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	5.67	x 0.16 =	0.9072	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged:
Method: Low Flow Monsoon Pump

SAMPLE DESCRIPTION

Odor: None
Other:

FIELD TESTS

Temperature:	13.18	Turbidity:	6.2
pH:	6.97	Dissolved O2:	5.16
Conductivity:	0.821	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: 8260 TCL VOCs

QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-15 **WEATHER:** Overcast, Mid 80's
DATE: 8/31/16 **TIME:** 0905

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
0830	29.39	150	0.7	5.76	5.56	0.904	14.11	3295.00	
0835	29.41	150	1.3	6.35	5.10	0.869	13.54	1149.00	
0840	29.41	175.0	3.0	6.65	5.11	0.862	13.27	116.00	
0845	29.41	175	4.0	6.75	5.07	0.855	13.25	27.10	
0850	29.41	175	6.0	6.91	5.09	0.843	13.21	6.41	
0855	29.41	175	7.0	6.94	5.17	0.834	13.20	6.26	
0900	29.41	175	8.5	6.97	5.16	0.821	13.18	6.20	
0905	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	8/31/16 @ 1315		
Weather:	Overcast, 80's		
Samplers:	Aaron Feshbach-Meriney	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-16		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	25.35				
Depth to Well Bottom (Ft.):	35.03				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	9.68	x 0.16 =	1.55	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:					
Method:	Low Flow Monsoon				

SAMPLE DESCRIPTION

Odor:	None
Other:	

FIELD TESTS

Temperature:	14.53	Turbidity:	6.45
pH:	6.42	Dissolved O2:	5.19
Conductivity:	0.567	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-16 **WEATHER:** Overcast, 80's
DATE: 8/31/16 **TIME:** 1315

DEVELOPER: _____ of PARSONS
_____ of _____

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1225	25.36	175	0.50	6.96	9.88	0.789	15.48	3887.00	
1230	25.36	175	1.10	6.84	4.94	0.716	14.98	1179.00	
1235	25.36	175	2.30	6.81	5.01	0.711	14.79	47.80	
1240	25.36	175	2.90	6.73	4.99	0.674	15.54	31.10	
1245	25.36	175	3.50	6.68	5.10	0.622	14.77	31.70	
1250	25.36	175	4.00	6.62	5.13	0.609	14.73	15.60	
1255	25.36	175	4.80	6.54	5.49	0.582	14.38	11.00	
1300	25.36	175	5.40	6.51	5.36	0.578	14.42	8.96	
1305	25.36	175	6.80	6.49	5.43	0.578	14.28	7.17	
1310	25.36	175	7.50	6.42	5.19	0.567	14.53	6.45	
1315	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	8/31/16 @ 1050		
Weather:	Overcast, 80's		
Samplers:	Aaron Feshbach-Meriney	of	PARSONS
		of	PARSONS
SAMPLE ID:	MW-17		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	24.15				
Depth to Well Bottom (Ft.):	34.7				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	10.55	x 0.16 =	1.69	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:					
Method:	Low Flow Monsoon				

SAMPLE DESCRIPTION

Odor:	None
Other:	

FIELD TESTS

Temperature:	13.57	Turbidity:	12.9
pH:	7.1	Dissolved O2:	7.56
Conductivity:	0.39	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	8260 TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS * LaMotte Turbidimeter 2020 used for all Turbidity

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-17 **WEATHER:** Overcast, 80's
DATE: 8/31/16 **TIME:** 1050

DEVELOPER: _____ of PARSONS
_____ of _____

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
0955	24.38	200	0.50	7.35	9.64	0.387	14.65	Error	Very High Turbidity
1000	24.38	200	1.20	7.14	7.90	0.383	14.04	2218.0	
1005	24.38	200	2.50	7.11	7.64	0.336	13.74	87.0	Visible Drop
1010	24.38	200	3.80	7.10	7.53	0.389	13.71	51.6	in Turbidity
1015	24.38	200	5.00	7.13	7.47	0.390	13.66	37.8	
1020	24.38	200	5.80	7.12	7.42	0.390	13.68	27.0	
1025	24.38	200	6.50	7.13	7.60	0.389	13.38	24.3	
1030	24.38	200	7.20	7.09	7.95	0.391	13.58	16.4	
1035	24.38	200	8.50	7.10	7.58	0.391	13.50	13.8	
1040	24.38	200	9.30	7.11	7.45	0.392	13.70	13.1	
1045	24.38	200	10.20	7.10	7.56	0.390	13.57	12.9	
1050	Collect Sample								

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	11/13/12 9:35		
Weather:	16.22° C		
Samplers:	Sara Weishaupt	of	PARSONS
	Allison Menges	of	PARSONS
SAMPLE ID:	MW-1		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	31.37				
Depth to Well Bottom (Ft.):	34.5				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	3.13	x 0.16 =	0.51	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:	5 gal				
Method:	Low Flow				

SAMPLE DESCRIPTION

Odor:	
Other:	

FIELD TESTS

Temperature:	16.22	Turbidity:	13
pH:	6.03	Dissolved O2:	7.43
Conductivity:		Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-1 **WEATHER:** 16.22° C, partly cloudy
DATE: 11/13/2012 **TIME:** 9:35

DEVELOPER: Allison Menges of PARSONS
of

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
0900	31.50	500	0.50	5.82	8.62	0.569	15.57	93.0	water clear
0905	31.50	500	1.00	5.89	8.47	0.560	15.79	11.1	water clear
0910	31.50	500	1.50	6.05	7.57	0.553	16.38	18.7	water clear
0915	31.55	500	2.00	6.04	7.21	0.555	16.48	7.6	water clear
0920	31.65	500	2.50	6.02	6.69	0.557	16.37	15.2	water clear
0925	31.70	500	3.00	6.02	7.97	0.565	16.22	17.2	water clear
0930	31.70	500	3.50	6.03	7.43	0.568	16.22	13.0	water clear

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	11/13/12 @1220		
Weather:	12.68° F,cloudy		
Samplers:	Sara Weishaupt	of	PARSONS
	Allison Menges	of	PARSONS
SAMPLE ID:	MW-3		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	28.6				
Depth to Well Bottom (Ft.):	34.5				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	5.9	x 0.16 =	1	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:	8 gal				
Method:	Low Flow Monsoon Pump				

SAMPLE DESCRIPTION

Odor:	
Other:	

FIELD TESTS

Temperature:	12.68	Turbidity:	4.32
pH:	6.89	Dissolved O2:	16.83
Conductivity:	0.441	Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	TCL VOCs
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-3 **WEATHER:** 12.68° F,cloudy
DATE: 11/13/2012 **TIME:** 12:20

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1220	28.60		0.00	8.25	29.47	0.367	10.94	479.0	milky white color
1225	28.70		2.00	7.19	18.71	0.431	12.52	82.0	clearer
1230	28.70		2.50	7.04	17.17	0.429	12.63	37.8	clear
1235	28.70		3.50	7.01	17.06	0.431	12.63	28.9	
1240	28.70		4.50	6.98	16.52	0.431	12.67	19.0	
1245	28.70		5.50	6.94	16.31	0.434	12.69	14.0	
1250	28.70		6.30	6.92	16.70	0.439	12.65	9.02	
1255	28.70		8.00	6.90	16.85	0.441	12.68	5.72	

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 11/13/12 @1450
Weather: 14.71° C, cloudy
Samplers: Allison Menges of PARSONS
of

SAMPLE ID: MW-8S
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 29
Depth to Well Bottom (Ft.): 34.5

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	5.5	x 0.16 =	0.88	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged: 7 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature:	14.71	Turbidity:	18.7
pH:	6.54	Dissolved O2:	7.89
Conductivity:		Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: TCL VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-8S **WEATHER:** 14.71° C, cloudy
DATE: 11/13/2012 **TIME:** 14:50

DEVELOPER: Allison Menges of PARSONS
of

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp °C	Turb. NTU	Comments
1405	28.10		0.50	7.75	9.62	0.202	13.23	OR	water turbid
1410	28.10		1.00	7.36	9.13	0.201	13.79	OR	water turbid
1415	28.15		1.50	6.91	8.61	0.201	14.47	315.0	water cloudy
1420	28.15		2.50	6.71	8.37	0.204	14.63	87.0	water clear
1425	28.20		3.50	6.60	8.24	0.202	14.60	46.3	water clear
1430	28.15		4.50	6.57	8.03	0.200	14.50	24.7	water clear
1435	28.10		5.00	6.56	7.88	0.202	14.48	24.80	water clear
1440	28.10		5.50	6.55	7.90	0.203	14.64	26.00	water clear
1445	28.10		6.00	6.54	7.9	0.201	14.71	18.7	water clear

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 11/13/12 @1550
Weather: 11.99° C
Samplers: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

SAMPLE ID: MW-8D
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 28.3
Depth to Well Bottom (Ft.): 59.8

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	31.5	x 0.16 =	5.1	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged: 7 gal
Method: Low Flow Monsoon Pump

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature:	11.99	Turbidity:	23.1
pH:	7.41	Dissolved O2:	12.47
Conductivity:		Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: TCL VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-8D **WEATHER:** 11.99° C
DATE: ######## **TIME:** 15:50

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp °C	Turb. NTU	Comments
1420	28.30		0.00	7.27	23.61	0.890	9.82	768	
1425	28.40		1.00	7.06	18.54	0.895	10.91	643	
1430	28.40		2.00	7.04	17.08	0.931	11.47	373	
1445	28.40		2.50	7.09	16.24	0.944	11.63	249	
1440	28.40		3.00	7.13	15.71	0.952	11.54	167	
1445	28.40		3.50	7.17	15.09	0.955	11.54	121	
1450	28.40		4.00	7.21	15.20	0.953	11.54	89.60	
1455	28.40		5.00	7.25	14.72	0.952	11.48	63.20	
1500	28.40		5.30	7.26	15.51	0.947	11.53	55.4	
1505	28.40		5.50	7.29	15.04	0.953	11.58	113	
1510	28.40		6.00	7.32	14.53	0.942	11.67	101	
1515	28.40		6.50	7.34	14.20	0.937	11.70	81.2	
1520	28.40		6.75	7.42	14.39	0.927	11.56	53.6	
1525	28.40		7.00	7.34	13.71	0.921	11.61	50.4	
1530	28.40		7.25	7.40	13.54	0.915	11.61	45.6	
1535	28.40		7.50	7.40	13.29	0.905	11.67	42.2	
1540	28.40		7.75	7.39	12.98	0.905	11.84	33.6	
1545	28.40		8.00	7.40	12.50	0.905	11.98	26.4	

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 11/13/12 @1030
Weather: 12.85° C
Samplers: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

SAMPLE ID: MW-10D
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 30.2
Depth to Well Bottom (Ft.): 57.8

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	27.6	x 0.16 =	4.5	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged: 4.5 gal
Method: Low Flow Monsoon Pump

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature:	12.85° C	Turbidity:	13.2
pH:	7.81	Dissolved O2:	12.3
Conductivity:		Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: TCL VOCs
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-10D **WEATHER:** 12.85° C
DATE: ######## **TIME:** 10:30

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
0915	30.2		0.00	6.35	14.78	0.684	11.89		Turbid
0920	30.3		1.00	6.91	13.64	0.871	12.09		
0925	30.3		1.50	7.26	13.17	0.087	12.41		
0930	30.3		1.75	7.33	13.11	0.876	12.52		
0935	30.3		2.00	7.44	12.63	0.918	12.70		
0940	30.3		2.25	7.52	12.42	0.953	12.72		
0945	30.3		2.50	7.62	12.90	0.964	12.90		
0950	30.3		3.00	7.64	12.67	0.978	12.86		
0955	30.3		4.00	7.68	11.90	0.973	13.00		
1000	30.3		5.00	7.72	12.47	0.973	12.98		
1005	30.3		5.50	7.76	12.32	0.966	12.86		
1010	30.3		6.50	7.75	12.44	0.961	13.02		
1015	30.3		7.00	7.70	12.44	0.969	12.85		
1020	30.3		7.50	7.79	12.30	0.969	12.88		
1025	30.3		8.00	7.80	12.31	0.968	12.86		

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 11/15/12 @1120
Weather: 12.85° C
Samplers: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

SAMPLE ID: MW-11
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 28.25
Depth to Well Bottom (Ft.): 89

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	60.75	x 0.16 =	9.72	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged: 30 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature:	14.30° C	Turbidity:	571
pH:	8.04	Dissolved O2:	1.18
Conductivity:		Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: TCL VOCs, Methane-methane ethene-acetylene, nitrate, sulfate and chloride, dissolved organic carbon
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS MS/MSP taken.
- Pump speen fluctuating, wate level changes per reading
- Water is milky color. Very turbid.

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-11 **WEATHER:**
DATE: ######## **TIME:** 11:20

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
0930	28.25		0.0	7.18	1.72	0.647	13.94	OR	Water Turbid
0935	33.95		2.0	7.30	1.82	0.650	13.99	OR	Water Turbid
0940	34.50		4.0	7.40	1.48	0.650	14.03	OR	Water Turbid
0945	32.75		5.0	7.70	0.92	0.652	14.02	OR	Water Turbid
0950	32.10		6.0	7.81	0.71	0.658	13.96	OR	Water Turbid
0955	31.35		7.0	7.89	0.65	0.657	13.89	OR	Water Turbid
1000	31.35		8.0	7.93	0.40	0.655	13.90	OR	Water Turbid
1005	31.35		9.0	7.95	0.61	0.653	13.97	925	Water Turbid
1010	31.50		10.0	7.97	0.68	0.647	14.00	788.0	Water Turbid
1015	31.20		11.0	7.99	0.81	0.641	13.96	642	Water Turbid
1020	32.35		12.0	8.01	0.91	0.640	14.09	893	Water Turbid
1025	32.95		13.0	9.02	0.97	0.637	14.29	715.0	Water Turbid
1030	33.35		14.0	9.01	0.91	0.630	14.25	OR	Water Turbid
1035	32.65		15.0	9.01	0.89	0.629	14.27	975	Water Turbid
1040	32.70		18.0	9.01	0.98	0.628	14.33	776	Water Turbid
1045	33.70		20.0	8.03	1.07	0.625	14.31	756	Water Turbid
1050	33.80		21.5	8.03	1.10	0.624	14.28	889	Water Turbid
1055	33.90		24.0	8.04	1.12	0.622	14.29	836	Water Turbid
1100	33.80		25.0	8.04	1.16	0.620	14.24	730	Water Turbid
1105	33.90		27.5	8.05	1.18	0.619	14.25	697	Water Turbid
1110	34.00		28.5	8.05	1.19	0.617	14.30	640	Water Turbid
1115	34.00		30.0	8.04	1.18	0.615	14.30	624	Water Turbid
1120	34.00		32.0	8.04	1.18	0.614	14.30	571	Sample

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 11/14/12 @1120
Weather: 12.85° C
Samplers: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

SAMPLE ID: MW-11
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 29.4
Depth to Well Bottom (Ft.): 89

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	59.6	x 0.16 =	9.54	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged: 30 gal
Method: Low Flow

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature: Turbidity: 571
pH: Dissolved O2: 1.18
Conductivity: Other:

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: TCL VOCs, Methane-methane ethene-acetylene, nitrate, sulfate and chloride, dissolved organic carbon
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS MS/MSD taken

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-11 **WEATHER:**
DATE: ######## **TIME:** 11:20

DEVELOPER: Allison Menges of PARSONS
of

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp ◦C	Turb. NTU	Comments
1050			1.0	6.76		0.97	11.65	OR	water turbid
1055	30.25		1.5	6.93		1.04	11.33	OR	water turbid
1100	30.45		2.0	7.22		1.11	11.97	OR	water turbid
1105	30.25		2.5	7.39		1.09	12.56	OR	water turbid
1110	30.25		3.0	7.45		1.07	12.73	780	water turbid
1115	30.35		3.8	7.48		1.06	12.75	404	water cloudy
1120	30.25		4.0	7.49		1.08	12.78	292	water cloudy
1125	30.35		4.5	7.51		1.11	12.84	212	water cloudy
1130	30.30		5.0	7.53		1.12	12.91	308	water cloudy
1135	30.30		5.5	7.56		1.12	12.97	139	water slightly cloudy
1140	30.30		6.0	7.59		1.11	12.97	91.2	water slightly cloudy
1145	30.25		6.5	7.60		1.10	12.98	120.0	water slightly cloudy
1150	30.25		7.0	7.61		1.09	13.02	101	water slightly cloudy
1155	30.25		7.5	7.62		1.08	13.02	80.9	water clear
1200	30.25		8.0	7.63		1.08	13.02	59.8	water clear
1205	30.25		8.5	7.63		1.07	13.04	69.6	water clear
1210	30.30		9.0	7.63		1.06	13.04	139	water slightly cloudy
1215			9.5						pump failed
1220			10.0						pump failed
1225			10.5						pump failed
1230									pump failed
1510	30.20								pump restarted
									pump failed

PARSONS
)UNDWATER SAMPLING RECORD

SITE NAME:	NYSDEC TEMCO		
PROJECT NUMBER:	447275		
Sampling Date/Time:	11/14/12 @0915		
Weather:	58.8° F,cloudy		
Samplers:	Sara Weishaupt	of	PARSONS
	Allison Menges	of	PARSONS
SAMPLE ID:	MW-12		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	28.18				
Depth to Well Bottom (Ft.):	35				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	6.82	x 0.16 =	1.1	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:	8 gal				
Method:	Low Flow				

SAMPLE DESCRIPTION

Odor:	
Other:	

FIELD TESTS

Temperature:	14.24	Turbidity:	11.2
pH:	5.81	Dissolved O2:	1.12
Conductivity:		Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	TCL VOCs, Methane-methane ethene-acetylene, nitrate, sulfate and chloride, dissolved organic carbon
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	
Chain of Custody No.:	
Shipped Via:	
Laboratory	

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-12 **WEATHER:** 14.24° C
DATE: 11/14/2012 **TIME:** 9:15

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp °C	Turb. NTU	Comments
825	28.15		0.5	5.55	3.18	0.824	12.00	OR	water turbid
830	28.20		1.0	5.66	2.93	0.826	12.33	OR	water turbid
835	28.25		1.5	5.48	2.28	0.822	13.15	OR	water turbid
840	28.25		2.0	5.82	1.79	0.802	13.93	711.0	water cloudy
845	28.25		2.5	5.83	1.57	0.786	14.08	364.0	water cloudy
850	28.20		3.0	5.85	1.45	0.780	14.07	140.0	water slightly cloudy
855	28.25		3.5	5.84	1.32	0.771	14.11	66.2	water clear
900	28.25		4.0	5.83	1.27	0.766	14.24	40.3	water clear
905	28.25		4.5	5.82	1.2	0.752	14.71	28.2	water clear
910	28.25		5.0	5.81	1.12	0.797	14.24	15.5	water clear
915	28.25		5.5	5.81	1.12	0.732	14.24	11.2	water clear

PARSONS
)UNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 11/14/12 @0825
Weather: 15.64° C,cloudy
Samplers: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

SAMPLE ID: MW-13
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 25.7
Depth to Well Bottom (Ft.): 35

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	9.3	x 0.16 =	1.49	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged: 10 gal
Method: Low Flow Monsoon Pump

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature:	15.64	Turbidity:	16
pH:	6.91	Dissolved O2:	4.01
Conductivity:		Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: dissolved organic carbon

QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-13 **WEATHER:** 15.64° C
DATE: ######## **TIME:** 9:35

DEVELOPER: Sara Weishaupt of PARSONS
of

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp °C	Turb. NTU	Comments
825	25.7		0.0	6.03	7.99	0.301	12.48	OR	turbid
830	25.8		0.5	6.70	7.12	0.359	13.67	OR	
835	25.8		0.8	6.78	6.40	0.376	15.50	OR	
840	25.8		2.0	6.85	5.67	0.397	15.38	OR	
845	25.8		2.5	6.85	5.38	0.402	15.60	712	
850	25.8		3.0	6.86	5.00	0.415	15.54	434	Clearer
855	25.8		3.5	6.87	4.85	0.420	15.60	246	
900	25.8		4.0	6.88	4.52	0.434	15.66	134	
905	25.8		5.0	6.89	4.59	0.434	15.70	71.8	
910	25.8		6.0	6.89	4.44	0.433	15.72	51.2	
915	25.8		7.5	6.88	4.36	0.439	15.76	37.8	
920	25.8		8.0	6.89	4.23	0.430	15.71	27.1	
925	25.8		8.5	6.88	4.23	0.442	15.79	26.0	
930	25.8		9.5	6.9	4.06	0.442	15.64	18.2	

PARSONS
)UNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 11/14/12 @1140
Weather: 15.64° C,cloudy
Samplers: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

SAMPLE ID: MW-14
Sampling Method: Low Flow Monsoon Pump

WELL PURGING

Static Water Level (TOC): 23.45
Depth to Well Bottom (Ft.): 33.9

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	10.45	x 0.16 =	1.672	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged: 9 gal
Method: Low Flow Monsoon Pump

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature:	14.28	Turbidity:	6.97
pH:	7.28	Dissolved O2:	8.03
Conductivity:		Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: dissolved organic carbon

QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS DUP_111412 collected @ 0801

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-14 **WEATHER:** 14.28° C
DATE: ######## **TIME:** 11:40

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp °C	Turb. NTU	Comments
1050	23.5		0.0	7.46	8.09	0.354	13.41	OR	Tan, turbid
1055	23.5		1.5	7.41	7.42	0.363	13.32	OR	
1100	23.5		2.0	7.48	10.19	0.360	13.85	OR	
1105	23.5		3.0	7.37	9.79	0.347	14.20	OR	
1110	23.5		4.0	7.30	9.65	0.343	14.19	723	
1115	23.5		5.0	7.28	9.25	0.343	14.29	181	clear
1120	23.5		6.5	7.26	8.95	0.340	14.24	44.2	
1125	23.5		7.0	7.25	8.72	0.340	14.23	25.2	
1130	23.5		7.5	7.28	8.42	0.345	14.25	14.2	
1135	23.5		8.0	7.30	8.25	0.346	14.24	11.1	

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275
Sampling Date/Time: 11/14/12 @1405
Weather: 14.87° C,cloudy
Samplers: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

SAMPLE ID: MW-15
Sampling Method: Low Flow Monsoon Pump

WELL PURGING

Static Water Level (TOC): 28.3
Depth to Well Bottom (Ft.): 35.3

CALCULATIONS:					
	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing:	Ft. of Water in Well	7	x 0.16 =	1.12	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons

Volume Purged: 9 gal
Method: Low Flow Monsoon Pump

SAMPLE DESCRIPTION

Odor:
Other:

FIELD TESTS

Temperature:	14.87	Turbidity:	4.48
pH:	7.76	Dissolved O2:	6.56
Conductivity:		Other:	

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:

QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated:
Chain of Custody No.:
Shipped Via:
Laboratory

COMMENTS / MISCELLANEOUS DUP_111412 collected @ 0801

PARSONS

GROUNDWATER SAMPLING RECORD

SITE NAME: NYSDEC TEMCO
PROJECT NUMBER: 447275

WELL NUMBER: MW-15 **WEATHER:** 14.87° C
DATE: 11/14/2012 **TIME:** 14:40

DEVELOPER: Sara Weishaupt of PARSONS
Allison Menges of PARSONS

Time 24 hr	DTW ft.	Pump Rate ml/min	Vol gal.	pH	DO	Spec. Cond. mS/cm	Temp °C	Turb. NTU	Comments
1405	28.3		0.0	7.64	7.85	0.884	14.31		
1410	28.35		1.5	7.69	8.36	0.863	14.55		
1420	28.31		4.5	7.71	7.89	0.850	14.68		
1425	28.31		6.5	7.72	7.61	0.841	14.70		
1430			7.5	7.75	6.90	0.825	14.78		
1435	28.31		8.5	7.75	6.65	0.820	14.82		

APPENDIX G

STRUCTURAL REPORT

STRUCTURAL EVALUATION OF BUILDING

FOR

NYSDEC

TEMCO UNIFORMS SITE

29 Samsondale Ave

West Haverstraw, NY

PREPARED FOR:

NYSDEC

PREPARED BY

PARSONS

10/14/14

Project No. 447275

September 23, 2014

TABLE OF CONTENTS

1.0 INTRODUCTION

An evaluation of the structural integrity of the building on the former Temco Uniforms site was performed on September 16, 2014. The purpose of the evaluation is to determine whether the buildings can be safely accessed for purposes of soil sampling.

2.0 BUILDING HISTORY

The former Temco Uniforms site is a 2.6 acre parcel located at 29 Samsondale Avenue in West Haverstraw, Rockland County, New York. The site includes an abandoned 32,000 square foot, one story building and is fenced. Surrounding the site are residences, Samsondale Avenue, and a railroad track. The NYSDEC site number is 344054.

Dry cleaning operations were conducted previously at the site which has reportedly been vacant since May 2002.

3.0 FIELD INVESTIGATION

The field investigation consists of visual observations made during the site visit on September 16, 2014 by Parsons' Richard Budde and Dennis Miller. John Miller of NYSDEC was also present and conditions were reviewed with him. Observations were made from the outside of the building from ground level and the interior from the ground level.

Observations were focused on the structural stability of the building and safety related aspects for access into the building. The condition of the various parts of the building again was focused on the structural stability and not the aesthetics of the part and included:

- The structural condition of exterior masonry walls included straightness, any cracks that may indicate failure of portions of the wall, and condition of lintels over doors and windows.
- Roof beams, whether the roof support beams were straight or sagging.
- Observation of roof deck for sagging.
- Condition of interior roof structure.
- Any dangerous conditions that present a safety concern.

The structural investigation does not include assessment of any environmental hazards such as asbestos, but does include some observations of materials that exist that should be evaluated for hazardous substances.

4.0 BUILDING CONDITION SUMMARY

Building construction consists of:

- Concrete foundations below grade for all walls and interior steel columns.
- Slab on grade in the interior.
- Masonry exterior walls consisting of concrete block, or concrete block with brick façade.
- Masonry interior walls consisting of concrete block, or concrete block with brick façade. The wall separating the north side and south side of the building was once the exterior wall of the north side of the building.
- The roof is flat and minimally sloped for drainage.
- Roof joist are approximate 4" x 12" wood beams spaced at 16" on center with a tongue and grove solid wood deck on the north side and plywood deck on the south side. Joists span from masonry walls to steel beams running east to west that are supported by pipe columns. The approximate joist span is 17'-6" on the north side and 22'-6" on the south side.
- Roof is a built up roof.
- Fiberglass insulation between the roof joists.
- Ceiling wallboard appears to be "homasote" type material and not a gypsum wallboard.
- Windows and doors have been mostly removed and the openings boarded up with plywood.

Building observations:

- The masonry exterior and interior walls appear straight and solid.
- Steel beams and columns are in good shape with surface rust in places.

- The building has extensive leaking throughout the entire building. The moisture from above and the moisture on the interior have caused the ceiling board and insulation to fall to the floor in most of the building. Picture 1

- The corrugated roof at the angle section in the northeast corner has blown off exposing the roof joist. Some of the roof joists are cracked and could collapse. Picture 2

- There are areas where the wood joists have rotted out due to leaking and the roof has locally collapsed at two places in the north section of the building. Areas adjacent to the collapsed sections have cracked joists that could collapse at any time. Refer to Sketch 1 for locations. Pictures 3, 4, and 5

- There are areas where the wood joists have cracked, and are sagging badly. The cracking is probably due to leaking that weakened the joist. Pictures 6, 7, 8 and 9

- Areas of the plywood deck in the south section of the building have disintegrated due to leaking, exposing the underside of the built up roof membrane. The roof joists appear to be solid, however since they have been exposed to water, they may be weakened. Picture 10

- The entire area is covered with debris from the collapsed ceiling boards and insulation. This presents a hazardous condition for tripping, possible puncture from nails and inhalation hazard if dust is stirred up. Picture 11

- Previous wells, MW6 and MW7 are located in the center of the north building section, and the northeast corner of the building respectively. In addition there is evidence of previous geoprobes in the northeast corner of the building. See Site Plan for well locations.

- The exterior of the building is a brick façade on concrete masonry blocks. Doors and window have been removed and are boarded up. An awning at the northwest corner has partially collapsed and the roof over the loading dock on the south side has areas of rot and has the potential of collapsing. Pictures 12 and 13

- Refer to figure 1 for locations of roof collapse, and cracked wood joist areas.

5.0 CONCLUSION

- There is a large area where the roof has already collapsed on the north side building and nearby the roof joists are cracked and distressed. Further collapse in these areas could

propagate into roof areas that seem solid, and this could happen at any time. Therefore it is our opinion that the building is unsafe for work in the interior.

- The south side building has no current collapsed roof, but has leaks throughout. While in better condition than the north side building there is evidence of cracked joists that present a safety concern. Since soil borings are not planned for this area of the building, access to this area is of little use. In our opinion this area of the building is unsafe for work in the interior.

- The area of anticipated borings or soil vapor sample points was at the northeast corner of the building. The roof structure in this area appears to be safe, however just to the south of this area is a section of collapsed roof and cracked beams. Also the roof in this area has been exposed to water and has probably been weakened. Pictures 14 and 15

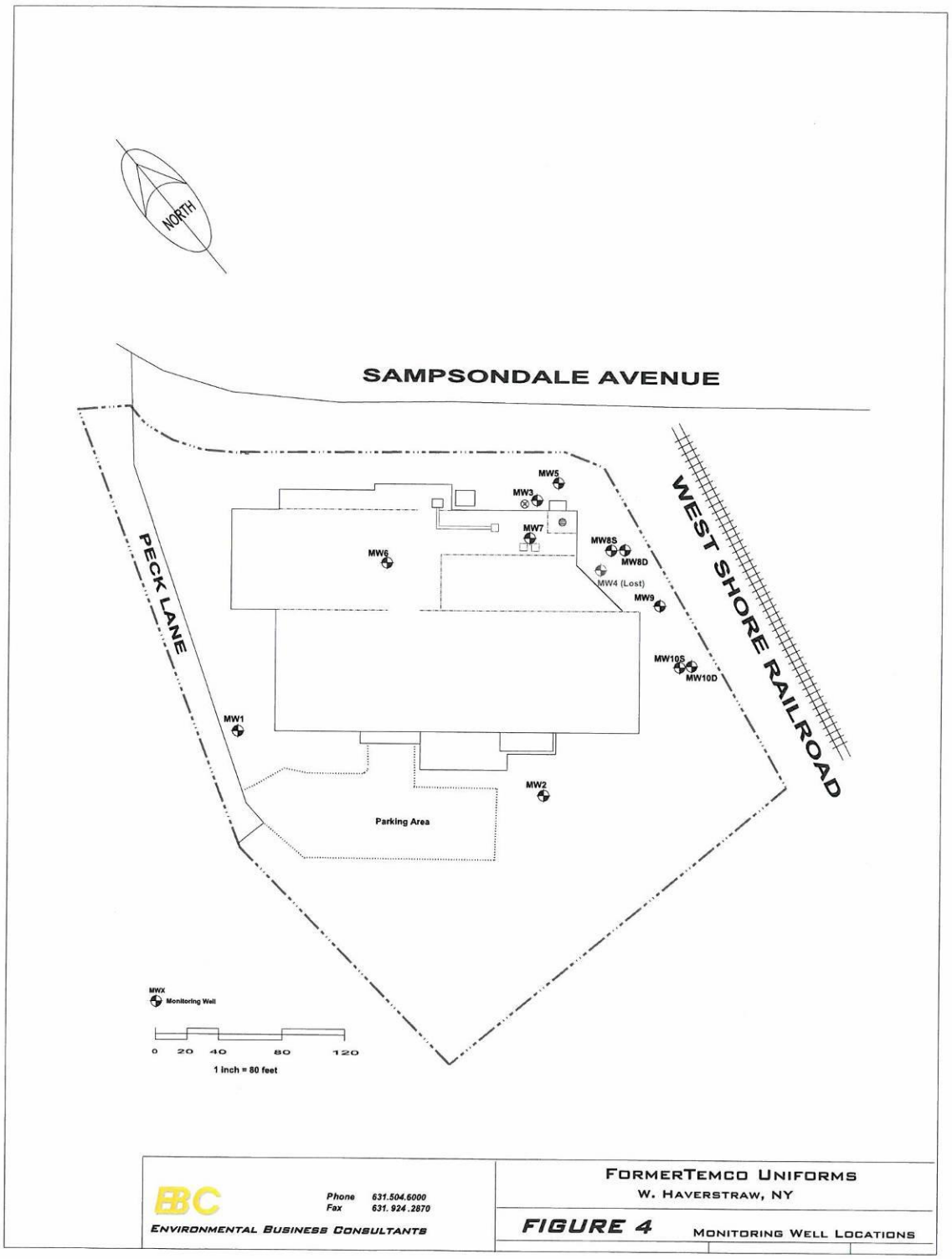
- Areas where the roof has locally collapsed, where the joists are cracked or where the joists are sagging are unsafe under or near. It is possible that these areas could collapse further at any time.

- Loose ceiling board, piping, light fixtures, and insulation could fall at any time.

- The debris now on the floor may be hazardous.

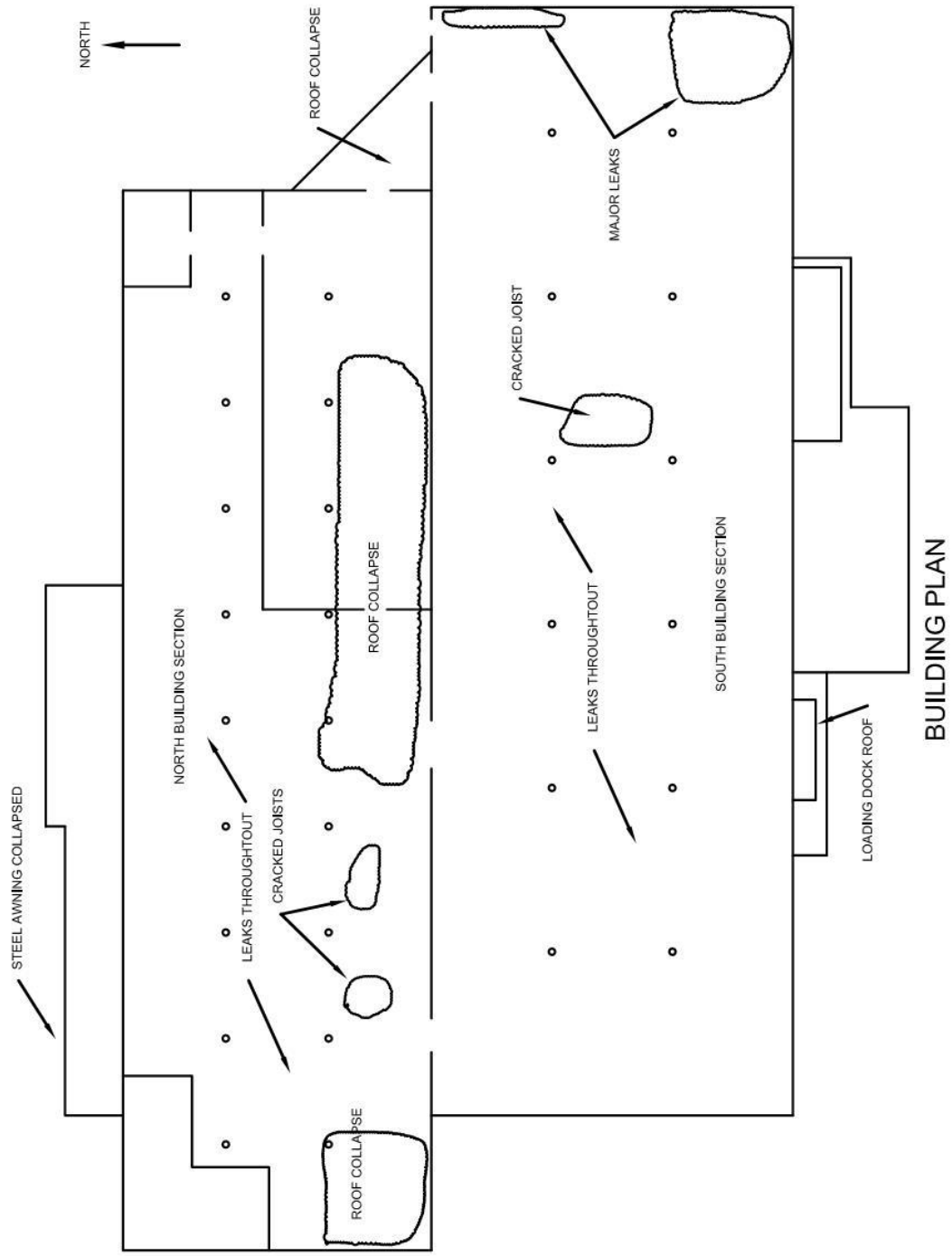
- Snow accumulation could cause further collapse of the roof.

APPENDIX 1 – SITE PLAN


NORTH
SAMPSONDALE AVENUE
PECK LANE
WEST SHORE RAILROAD
MW5
MW3
MW7
MW8S
MW8D
MW6
MW4 (Lost)
MW9
MW10S
MW10D
MW1
MW2
Parking Area
MWX
Monitoring Well
0 20 40 80 120
1 inch = 80 feet
EBC
Phone 631.504.6000
Fax 631. 924 .2870
ENVIRONMENTAL BUSINESS CONSULTANTS
FORMERTEMCO UNIFORMS
W. HAVERSTRAW, NY
FIGURE 4
MONITORING WELL LOCATIONS

Site Plan

APPENDIX 2 – BUILDING PLAN



BUILDING PLAN

APPENDIX 3 –PHOTOS

Picture 1 – Roof Leaks and Falling Ceiling Board

Picture 2 – Roof at Angle Building Section

Picture 3 – Collapsed Roof Area

Picture 4 – Collapsed Roof Area

Picture 5 – Cracked Joists Adjacent to Roof Collapse

Picture 6 – Cracked Joists

Picture 7 – Cracked Joists

Picture 8 – Cracked Joist at Support

Picture 9 – Cracked Joists

Picture 10 – Plywood Deck Disintigration

Picture 11 – Debris From Ceiling

Picture 12 – Collapsed Awning

Picture 13 – Roof at Loading Dock

Picture 14 – Area of Planned Borings (Closeup)

Picture 15 – Area of Planned Borings