Midler City Industrial Park

Site No. C734103

Fourth Annual Periodic Review Report

Prepared by

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EXECUTIVE SUMMARY

Effectiveness of the Remedial Program

Data and discussion presented in this report indicate that chlorinated volatile organic compounds (CVOCs) in groundwater at the Midler City Industrial Park site (Site No. C734103) continue to decrease. Current concentrations are significantly less than those observed at the commencement of the Remedial Investigation and ensuing in-situ thermal treatment of significant source areas, and, with one exception (MW-10D), have declined significantly since the end of the cool-down period (assumed to be December 2008). The decrease in contaminant levels in most wells, combined with the lines of evidence associated with reductive dechlorination, indicate that MNA continues to be the appropriate remedial technology for site groundwater.

Compliance

There are no areas of non-compliance regarding the major elements of the Site Management Plan that require corrective measures.

Recommendations

Relative to institutional controls and engineering controls (ICs/ECs) for the site, no changes are recommended.

SECTION 1 - INTRODUCTION AND HISTORICAL OVERVIEW

C&S Engineers, Inc., on behalf of our client Pioneer Midler Avenue, LLC, submits this fourth Annual Periodic Review Report (PRR) for the site known as Midler City Industrial Park - Site No. C734103.

The Midler City Industrial Park site encompasses approximately 22 acres and is located in the eastern portion of the City of Syracuse, as shown on Figure 1. Further detail concerning the property boundary is shown on Figure ASB-01 in the December 2007 *Final Engineering Report* for the site.

Developed as an industrial facility in the late nineteenth century and utilized as such through the mid-twentieth century, the Midler City Industrial Park is relatively flat and is bounded as follows:

- North by Interstate Route 690.
- East by undeveloped property owned by the City of Syracuse.
- South by property owned by CSX Transportation.
- West by Midler Avenue.

The site was one of the last undeveloped accessible tracts of land adjacent to the highly urbanized Erie Boulevard corridor. Currently, a Lowe's home center and a branch of SEFCU occupy much of the site. Vacant outparcels remain available for development.

During the RI and demolition activities that occurred in 2004-2006, areas impacted by petroleum and chlorinated volatile organic compounds were discovered. The main CVOCs found at the site were tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride (VC), cis-1,2-dichloroethene (cis-1,2-DCE), and trans-1,2-dichloroethene (trans-1,2-DCE). The occurrence of CVOCs was found within the marl and peat layers and extended to depths of approximately 26 feet below ground surface. The source of the CVOCs is attributed to past manufacturing and or waste management practices of the former Prosperity Laundry Equipment Company. No.6 fuel oil and other petroleum hydrocarbons were discovered during earthwork where several underground storage tanks were once present for the boiler house and beneath certain floor slabs of the manufacturing complex where equipment was once located. Those areas of petroleum contamination were excavated and disposed of off-site. Clean-up objectives for petroleum impacted media were consistent with NYSDEC TAGM 4046/STARS which were in effect at the time the work was completed.

An IRM was conducted from 2006-2007 to remove CVOCs from four source areas identified during the RI. The technology adopted to remove CVOCs was ISTD. The smallest of the four source areas ("B-5" Area) was excavated and the impacted materials were placed within the two largest areas ("B-1" and "B-3" Areas) for CVOC removal via ISTD. The layout of the ISTD system in each of the source areas is shown on Figure 4. Based upon the high organic content of subsurface soils (10.8% average), a site specific soil clean-up objective of 31,200 µg/kg total CVOCs was established consistent with TAGM 4046 guidance which was in affect at the time of the IRM. As a result of the ISTD treatment, approximately 86,000 pounds of CVOCs were removed from the subsurface and treated on site via thermal oxidation. Further information regarding remedial efforts is presented in the December 2007 IRM report prepared by C&S.

Monitored Natural Attenuation (MNA), using protocol established by the United States Environmental Protection Agency (USEPA), was the final remedy selected for the site relative to groundwater, given:

- The significant source removal effort;
- Presence of soils with high organic content (10.8% average);
- Nature of CVOCs over 40 years of site inactivity;
- 40 years of site inactivity;
- Evidence of reductive dechlorination;
- Characteristics of groundwater including Oxidation-Reduction Potential (ORP), methane/ethane/ethene concentrations; and,
- The presence of *Dehalococcoides*, a genus of bacteria that obtains energy via the oxidation of hydrogen gas and subsequent reductive dehalogenation of halogenated organic compounds.

The groundwater MNA program commenced in 2008 and has been documented in a series of periodic data reports since that time. Evaluation of the data has been presented in reports to the

NYSDEC entitled *First Annual Site Monitoring Report* (February 2009), *Second Annual Periodic Review Report* (April 2010), and *Third Annual Site Monitoring Report* (March 2011),. The quarterly groundwater monitoring program continued through the third quarter of 2010 with results transmitted to NYSDEC Region 7 on a regular basis.

Based on the progress of CVOC attenuation observed, the New York State Department of Environmental Conservation (NYSDEC) Region 7 office, in a letter dated September 14, 2010 agreed to reduce the frequency of groundwater sampling and analysis to twice per year, with those events occurring in Spring and Fall 2011. That same letter also allowed the deletion of monitoring well MW-2D from the sampling program. A copy of that letter is provided in Appendix A. Implementation of the modified groundwater monitoring program began in 2011 with full annual reporting as specified in the December 2007 Remedial Work Plan, Site Management Plan and, as required by the Brownfield Cleanup Agreement for the site. This *Fourth Annual Periodic Review Report* constitutes the first such report under the modified program.

Elevated groundwater temperatures recorded during the first year after the shutdown of the ISTD system were determined to be the result of the heating process which took place over a period of approximately 11 months. The *Remedial Work Plan* issued in December 2007 established that the cool-down period would be considered complete when the range of groundwater temperatures recorded at the monitoring wells stabilized to within five degrees Fahrenheit (F) of each other. The 2011 data revealed that for the May 2011 sampling event, all six of the monitoring wells (9D, 10D, 13D, 14D, 15D, and 16D) were within approximately five degrees F of each other. For the December 2011 sampling event, all of the monitoring wells except for MW-16D were also within approximately five degrees F of each other; monitoring well MW-16D exhibited a groundwater temperature that was 3.5 degrees F greater than the 5 degree range of the other locations. The summary water temperature data suggest that the cool down period has run its course, and that the somewhat higher groundwater temperatures noted consistently for MW-16D, and less consistently at MW-13D and MW-14D, are indicative of the natural static conditions at the site.

SECTION 2 - EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Natural Attenuation Parameters

Samples collected during 2011 were analyzed for a variety of parameters associated with MNA including inorganic parameters, microbial indicators, and CVOCs. The resultant data were examined for evidence indicating overall reduction of contaminant levels. In addition, degeredation rate constants were calculated using USEPA protocol.

Groundwater quality data (relative to chlorinated compounds) for each of the wells are presented on tables shown in Appendix B-1. Data Usability Summary reports for the 2011 groundwater quality monitoring are provided in Appendix B-2. Analytical results for the MNA parameters

are shown on the table that is Appendix B-3 of this report. Appendix B-4 presents the groundwater contour maps for each sampling event conducted in 2011.

Other parameters of interest during 2011 include:

- Oxidation-reduction Potential - The ORP measurements generally remained at levels of -300 mV or less. The exception is MW-16D where -278 mV was recorded in December 2011. Values larger (more negative) than -100 mV are indicative of an environment that is conducive to support reductive dechlorination.
- Dissolved Oxygen - Other than limited instances, the presence of dissolved oxygen in each of the monitoring wells continues to be essentially non-existent and indicative of a reducing environment.
- Methane - Concentrations of 3 mg/l or less were recorded during 2011 in MW-9D and MW-10D. Concentrations exceeding 9 mg/l are consistent in the remaining four wells.
- Sulfate - In MW-9D, MW-10D, and MW-15D concentrations exceeding 380 mg/l were recorded in 2011. Lower concentrations ranging from 60 mg/l to 122 mg/l were found in wells MW-13D, MW-14D, and MW-16D, which is a similar range to that recorded during 2010. According to USEPA MNA guidance, sulfate in excess of 20 mg/l may cause competitive exclusion of dechlorination. However, in many plumes with high concentrations of sulfate, reductive dechlorination still occurs. Based on CVOC data collected at the Midler Avenue site, it would appear the reductive dechlorination is occurring.
- Dehalococcoides (Dhc) - Concentrations exceeding 1 $x10^6$ gene copies per liter of this microbe were found during 2011 in MW-10D, MW-13D, MW-14D and MW-16D. The notable increase in the estimated percentage of Dhc within the overall microbial population at MW-13D that was observed in 2010 remained evident at that location during the 2011 sampling events.
- Vinyl chloride reductase (vcrA) - vcrA concentrations generally vary in proportion with Dhc concentrations. The variation of vcrA in MW-13D was similar as noted above for Dhc in MW-13D.

Evaluation of Rate Constants

The February 2009 *First Annual Site Monitoring Report* developed rate constants from cool-down period data which were determined to be of minimal relevance with respect to long-term natural attenuation trends. The USEPA instructs in that, to make a statistically valid projection of the rate of monitored natural attenuation, monitoring periods of at least three years should be considered. With data from twelve sampling events since 2008 (which includes data from the cool down period) we offer the following observations and calculations regarding the apparent rate of CVOC reduction at each of the site monitoring wells during the 1,396 day (3.82 years) period extending from February12, 2008 through December 7, 2011.

Concentration Versus Time Rate Constants

The following discussion refers to first order rate constants derived from a comparison of individual CVOC analytical results for each monitoring well. In this evaluation all of the data since 2008 were considered to see if a "best fit" linear relationship was evident. These data include the "cool down" data. By using all the data, there was much scatter and in some instances the resultant trend line suggested that concentrations of certain CVOCs were increasing. Nevertheless, groundwater quality has generally improved and at certain wells, detected CVOCs do not exceed Class GA Groundwater Standards.

The following is an evaluation of rate constant trend lines; these will become more statistically valid as more data are generated.

MW-2D - Since the CVOCs of interest have been reported at estimated concentrations below their respective NYSDEC Class GA Standards and, the September 2010 letter from NYSDEC Region 7 removed this well from future sampling, there are no 2011 groundwater quality data associated with this location and an evaluation of the data relative to first order rate constants was not performed.

MW-9D - Trans-1,2-DCE and cis-1,2-DCE have both been reported at concentrations less than the Class GA groundwater standard of 5 µg/l since October 2008. Given the data, further evaluation of first order rate constants for these two CVOCs was not performed. For vinyl chloride, the concentration declined from 4 µg/l in February 2008 to 3.0 µg/l in May 2011 (in December 2011, VC was "non-detect" at 10 ug/l). This resulted in a trendline that suggests the Class GA groundwater standard of 2 µg/l would be met in approximately five years.

MW-10D - The data indicate a positive slope for vinyl chloride over the monitoring period, as the concentration of that compound increased from 96 µg/l in February 2008 to 120 µg/l in December 2011. However, the December 2011 concentration of vinyl chloride remains lower than the reported concentrations during the period from October 2008 through October 2010. Also cis-1,2-DCE data resulted in a positive slope since there was an increase from 200 µg/l in February 2008 to 440 µg/l in December 2011. The trans-1,2-DCE concentration has remained generally stable, from 16 ug/l in February 2008 to 17 ug/l in December 2011.

MW-13D – The vinyl chloride concentration has declined from 3,100 µg/l in February 2008 to 1,800 µg/l in December 2011, resulting in an estimated time of 48 years to achieve the 2 ug/l Class GA Standard. However when all the data are plotted, including the spike in the concentration of vinyl chloride seen in the March 2010 event (7,400 µg/l as compared to 760 µg/l in December 2009), this creates a positive slope.

Cis-1,2-DCE concentrations declined from 430 µg/l to 260 µg/l during the February 2008 through October 2010 timeframe, but a spike in concentration occurred in March 2010, after which the concentrations have been varying with a general trend of decreasing. Given that spikes of both cis-1,2-DCE and vinyl chloride were followed by general decreases in four consecutive sampling events, it would appear that long-term improvements to groundwater quality should continue. This "positive slope" condition appears to be a function of a small data set generated during a short time frame.

Trans-1,2-DCE concentrations declined from 36 µg/l to 13 µg/l during the February 2008 to May 2011 time period (in December 2011, trans-1,2-DCE was "non-detect" at 50 ug/l) which resulted in a theoretical "Time to Meet Standard" of approximately three years. With regard to PCE and TCE, neither of these compounds was detected in either of the 2011 sampling events for this location, thus no further evaluation of the data relative to prediction of "Time to Meet Standards" was performed.

MW-14D - Since March 2010 concentrations of both cis-1,2-DCE and trans-1,2-DCE, as well as PCE and TCE, have declined to less than the Class GA Groundwater Standard (5 µg/l) for these compounds. VC concentrations have declined from 12,000 µg/l to 3.6 µg/l during the period from February 2008 through the 2011 sampling events, resulting in a theoretical time of approximately three years to achieve the 2 µg/l Class GA Standard for that compound.

MW-15 and MW-16D – No rate constants have been established for these wells since the CVOC concentrations have been generally less than their respective Class GA groundwater Standards. In December 2011, the concentration of cis-1,2-Dichloroethene exhibited a slight rise to 6.4 ug/l, indicating a slightly "positive slope condition", when compared with the 6 ug/l concentration for that compound in February 2008.

For future sampling, the analytical laboratory will be requested to provide lower detection limits, when possible, to document that specific CVOCs are not present above their respective Class GA Groundwater Standard.

Conclusions

Data and discussion presented in the preceding text and accompanying data tables confirm that CVOCs in groundwater continue to decrease. Current concentrations are consistently less than those observed at the commencement of the RI and ensuing in-situ thermal treatment of significant source areas, and with the exception of MW-10D and MW-13D, have declined significantly since the end of the cool-down period. The decrease in contaminant levels in most wells combined with the lines of evidence associated with reductive dechlorination, indicate that MNA continues to be the appropriate remedial technology for site groundwater.

SECTION 3 - IC/EC PLAN COMPLIANCE REPORT

Residual subsurface contamination remained after completion of the IRM performed under the BCP. Engineering Controls were incorporated into the site remedy to provide proper management of this contamination to ensure protection of public health and the environment. A site-specific Environmental Easement has been recorded with the Onondaga County Clerk that provides an enforceable means to ensure the continued and proper management of residual contamination and protection of public health and the environment. It requires strict adherence to ICs and ECs placed on this Site by NYSDEC by the grantor of the Environmental Easement and any and all successors and assigns of the grantor.

Site Specific Engineering Controls

As described in the December 2007 Site Management Plan (SMP), as approved by NYSDEC, the following site specific ECs have been implemented.

Sub-slab depressurization systems (SSDSs) - SSDSs have been installed and maintained on both the Lowe's home center and SEFCU branch building. A site plan showing the location of the monitoring points for each building is provided in Appendix C of this report. Inspection of the systems is performed on a regular basis by Pioneer Midler Avenue, LLC as documented on the forms in Appendix C of this PRR. No operational problems occurred with the systems during calendar year 2011.

If in the future additional buildings are constructed on the site, similar type SSDS will be designed, installed, and maintained. The designs and system performance requirements will be in accordance with applicable regulations and/or guidance.

Public water supply - The site and surrounding properties receive their domestic water from municipal service connections supplied by the City of Syracuse. The source of the municipal water supply is surface water from Skaneateles Lake, Otisco Lake, and Lake Ontario. The Lowe's home center and SEFCU branch office are connected to and obtain potable water from the municipal water supply described above. Currently there are no other buildings or users of water on the site.

Paved and concrete surfaces -- To the extent reasonable, surfaces outside of the building footprints were paved or covered with conventional asphalt or concrete. Areas beneath the asphalt and/or concrete pavement received one foot of clean Type 1 or 2 crushed limestone from an approved quarry (i.e., T. H. Kinsella, Hansen). Areas beyond the footprint of the buildings and limits of paved areas received either a combination of clean crushed limestone fill, and/or clean topsoil to a depth of one foot. The clean crushed limestone fill and/or topsoil has been maintained to avoid direct contact with pre-existing urban fill material and native soils. As required by the Site Management Plan, Pioneer Midler Avenue, LLC performs a visual inspection of the site twice each year. Those inspections completed during 2011 are documented on the forms shown in Appendix D of this PRR.

Site-Specific Institutional Controls

As described in the December 2007 Site Management Plan (SMP) the following site specific ICs have been implemented.

Environmental Easement - Pioneer has granted the NYSDEC an environmental easement for the Site to ensure that use restrictions or engineering controls remain in place and will be binding to future owners and lessees, or until modified, extinguished, or amended by a written instrument executed by the Commissioner of the NYSDEC. No changes to the Environmental Easement occurred during 2011.

Groundwater Use Restriction - The use or discharge of untreated groundwater for any purpose will not be permitted at the Site. As stated above, each building is connected to City of Syracuse municipal water supply.

Soil Management Plan - A site-specific Soil Management Plan (SoMP) dated December 2007 was been approved by NYSDEC and has been implemented at this Site. The objective of the SoMP is to set guidelines for management of soil material during any future activities which would breach the cover system at the site. No excavation, construction, or dewatering activities were conducted at the site during 2011.

Recommendations

Relative to the SoMP, no changes to the plan are recommended for 2012.

SECTION 4 - MONITORING PLAN COMPLIANCE REPORT

The December 2007 *Monitoring Plan* and the December 2007 *Remedial Work Plan* described the measures for evaluating the performance and effectiveness of Monitored Natural Attenuation. The elements of these plans, relative to groundwater monitoring, consisted of sampling and laboratory analysis for chlorinated volatile organic compounds via EPA Method 8260. Additionally, each sample was further evaluated for the following MNA parameters:

- ORP
- Temperature
- pH
- Dissolved oxygen
- Ferric iron
- Ferrous iron
- Total Iron
- Sulfate
- Sulfide
- Dissolved Organic Carbon
- Dissolved Inorganic Carbon
- Dissolved methane
- Dissolved ethene
- Dissolved ethane
- Microbial analysis to determine presence and concentration of Dhc populations and gene analysis to determine presence/concentrations of Dhc capable of dechlorinating vinyl chloride to ethene

Groundwater data (quality and water levels) are tabulated and entered into the cumulative summary tables after each sampling event. That information, accompanied by a Data Usability Summary Report (DUSR) and groundwater contour map, is submitted to NYSDEC Region 7 following each monitoring event. The cumulative groundwater data tables (groundwater quality and MNA parameters) are shown in Appendix B-1 and Appendix B-3, respectively, of this PRR.

Data Usability Summary Reports for the 2011 groundwater quality samples are provided in Appendix B-2. Also, groundwater contour maps for each 2011 sampling event are shown in Appendix B-4.

Conclusions

In 2011, site monitoring was implemented in a manner consistent with the NYSDEC-approved Site Management Plan. The results of the monitoring indicate that the selected site remedy remains appropriate.

SECTION 5 - OPERATION AND MAINTENANCE PLAN

The December 2007 *Operation and Maintenance Plan* for the site describes the measures necessary to operate and maintain mechanical components of the SSDS systems installed at each of the buildings. The *Operation & Maintenance Plan* also included a description of visual inspections to be conducted to document the condition of the exterior paved surfaces.

SSDS Operation and Maintenance

During 2011 verification of normal operating status was conducted on an approximately weekly basis. This verification, performed by Pioneer Midler Avenue, LLC, is by visual observation of the magnehelic gauge attached to each discharge stack. These observations are recorded and kept on file. Copies of the inspection forms for 2011 are presented in Appendix C of this PRR.

Routine maintenance is performed every 12 months and includes:

- Visual inspection of above grade components
- Verification that no building intakes have been added within ten feet of the SSDS ventilation stacks
- Verification that floor penetrations are not leaking and if leaks are detected appropriate repairs are to be completed.

As appropriate, preventative maintenance, repairs, and/or adjustments will be made to the system to ensure its continued effectiveness. If significant changes are made to the building, the system will be modified and/or expanded to ensure the system is functioning properly.

No operational problems or significant building modifications have occurred with the systems installed at the SEFCU branch and Lowe's home center during 2011.

Pavement and Concrete Surfaces

All paved and concreted surfaces are maintained such that extensive perforations or cracks are sealed or repaired on an on-going basis. The Property Manager performs a semiannual

inspection of these surfaces. Documentation of the visual inspections performed in 2011 is presented in Appendix D of this PRR.

Conclusions

Operations and Maintenance for the site in 2011 was implemented in a manner consistent with the NYSDEC-approved O&M Plan and no changes to the plan are recommended at this time.

SECTION 6 - OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

Compliance with Site Management Plan

During calendar year 2011, all the requirements of the *Site Management Plan* prepared in 2007 and amended in September 2010 were satisfied and no changes or modifications are contemplated at this time,. .

Performance and Effectiveness of the Remedy

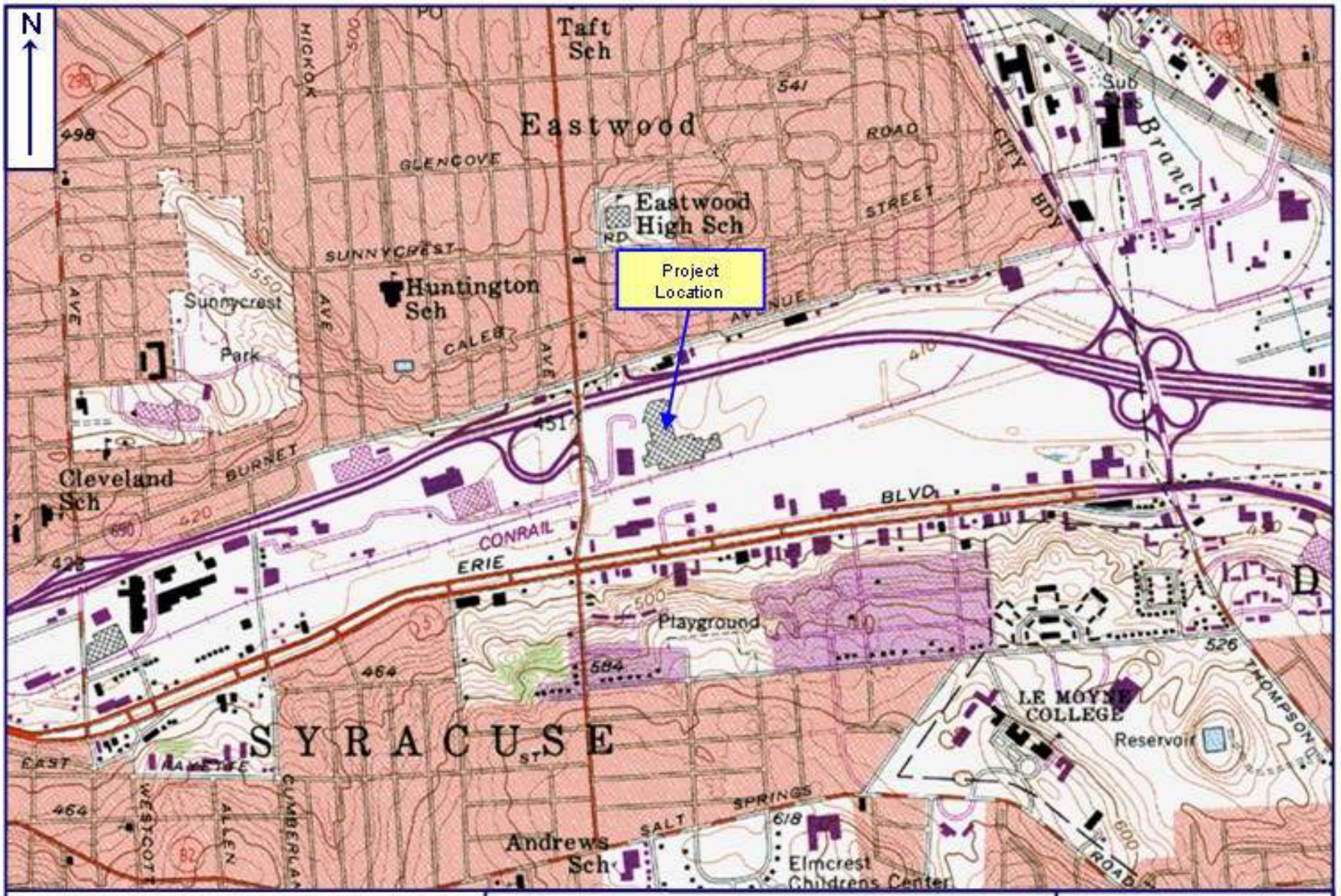
Data from site monitoring confirm that CVOCs in groundwater continue to decrease. Current CVOC concentrations are greatly reduced compared to those observed at the commencement of the Remedial Investigation and ensuing in-situ thermal treatment, and, with one exception (MW-10D), have declined significantly since the end of the cool-down period. The decrease in contaminant levels (in most wells) combined with the lines of evidence associated with reductive dechlorination, indicate that MNA continues to be the appropriate remedial technology for site groundwater.

Future PRR Submittals

The PRR for calendar year 2012 will be issued during the first quarter of 2013.

FIGURE 1

SITE LOCATION MAP



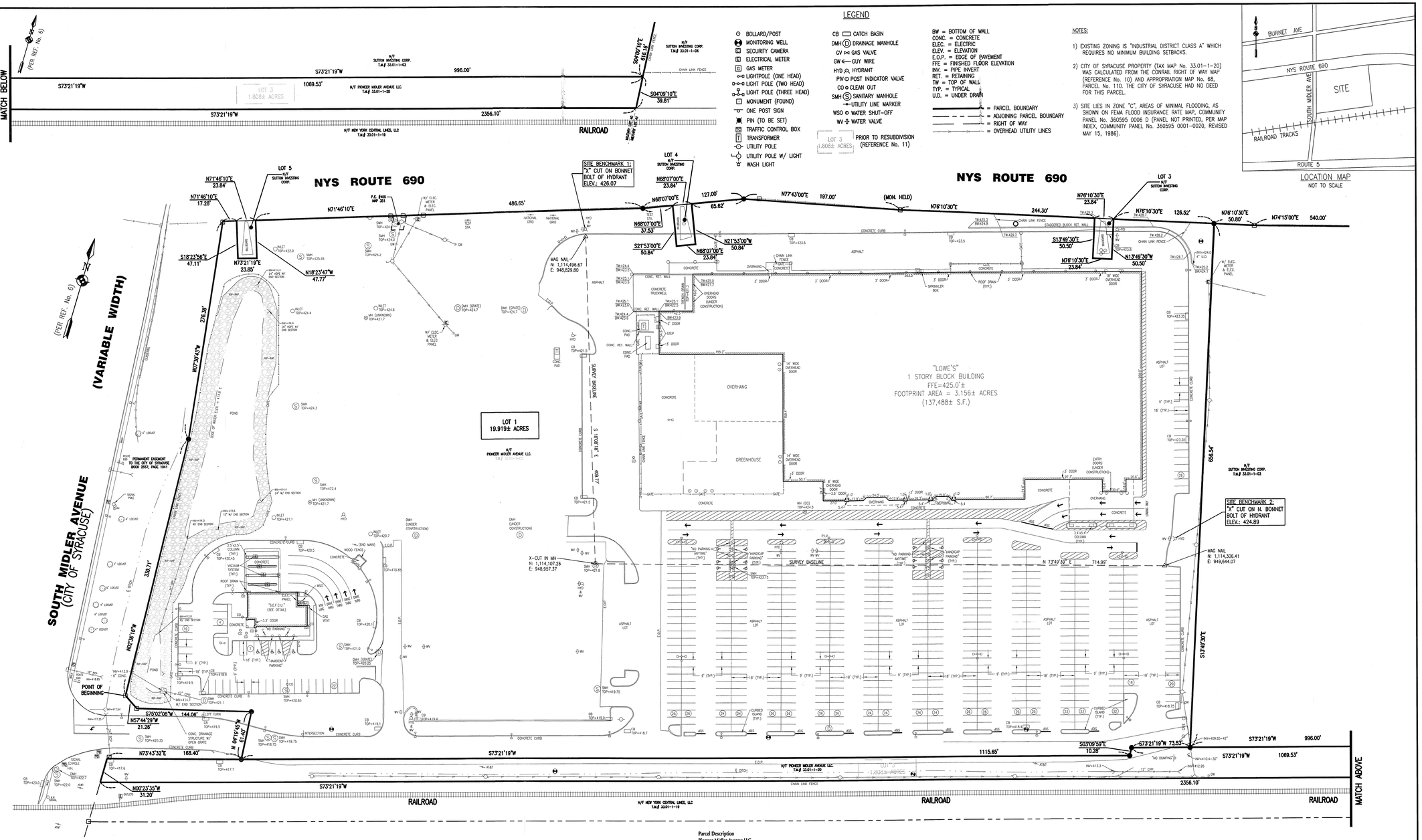
Source: USGS Topographic Maps (Terrain Navigator)
Syracuse East, NY

Figure 1
Site Location Map
Pioneer Milder LLC Brownfield Project
City of Syracuse, Onondaga County, New York

C&S COMPANIES
ENGINEERS
DESIGN BUILD
TECHNICAL RESOURCES
OPERATIONS

FIGURE 2

ASB-01 FROM DECEMBER 2007 FINAL ENGINEERING REPORT



REFERENCES:

1) DEED FILED IN THE ONONDAGA COUNTY CLERKS OFFICE DATED JUNE 2, 1961. BOOK 2046, PAGE 402 OF DEEDS.
2) APPROPRIATION MAP No. 66, PARCEL No's 106, 107, 108, AND 118, TITLED "SOUTH MIDLER AVENUE BRIDGE REMOVAL, CITY OF SYRACUSE–B.I.N. 2208650," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.
3) APPROPRIATION MAP No. 68, PARCEL No. 110, TITLED "SOUTH MIDLER AVENUE BRIDGE REMOVAL, CITY OF SYRACUSE–B.I.N. 2208650," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.
4) APPROPRIATION MAP No. 71, PARCEL No's 115 AND 116, TITLED "SOUTH MIDLER AVENUE BRIDGE REMOVAL, CITY OF SYRACUSE–B.I.N. 2208650," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.
5) APPROPRIATION MAP No. 67, PARCEL No 109, TITLED "SOUTH MIDLER AVENUE BRIDGE REMOVAL, CITY OF SYRACUSE–B.I.N. 2208650," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.
6) APPROPRIATION MAP No. 354, PARCEL No's 448, 449, 450, AND 451, TITLED "INTERSTATE ROUTE 570–1–4.0, FORMAN AVENUE TO ERICKSON STREET, CITY OF SYRACUSE," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.
7) APPROPRIATION MAP No. 351, PARCEL No's 445 AND 455, TITLED "INTERSTATE ROUTE 570–1–4.0, FORMAN AVENUE TO ERICKSON STREET, CITY OF SYRACUSE," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.
8) APPROPRIATION MAP No. 529, PARCEL No 631, TITLED "INTERSTATE ROUTE CONNECTION No 570–1–4.1, ERICKSON STREET TO CITY LINE," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.
9) APPROPRIATION MAP No. 3–C, PARCEL No 664, TITLED "INTERSTATE ROUTE CONNECTION No 570–1–4.1, ERICKSON STREET TO CITY LINE," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.
10) CONRAIL RIGHT OF WAY MAP V73/6 (FORMERLY NEW YORK CENTRAL RAILROAD,) DATED 5/5/92.
11) "RESUBDIVISION OF THE PIONEER MIDLER AVENUE SUBDIVISION, KNOWN AS 101–153 SIMON DRIVE", PREPARED BY BERGMANN ASSOCIATES, LAST REVISED 11/22/06 AND FILED IN THE ONANDAGA COUNTY CLERK'S OFFICE AS MAP No. 10571.

Parcel Description
Pioneer Midler Avenue LLC
Syracuse, NY

All that tract or parcel of land situate in the City of Syracuse, Onondaga County, State of New York, being part of Military Lot Number 40 of the former Town of Dewitt, bounded and described as follows:

Beginning at a concrete monument on the easterly right of way line of South Midler Avenue as appropriated to the State of New York (Map No. 66, Parcel No. 106 & 107); thence, along the easterly line of said appropriated Parcel No. 106 the following two courses and distances:
North 02°-36'-16" West, a distance of 330.71 feet to a point; thence,
North 02°-30'-43" West, a distance of 276.38 feet to a concrete monument on the southerly right of way line of New York State Route 690 (as appropriated to the State of New York - Map No. 354, Parcel No. 450 & 451; and Map No. 351, Parcel No. 445); thence,
North 71°-46'-10" East, along the southerly right of way line of said Route 690, a distance of 17.28 feet to the northwest corner of Proposed Lot 5; thence, the following three courses and distances along said Lot 5:
South 18°-23'-56" East, a distance of 47.11 feet to a point; thence,
North 73°-21'-19" East, a distance of 23.85 feet to a point; thence,
North 18°-23'-47" West, a distance of 47.77 feet to a point on the southerly right of way line of said Route 690; thence,
North 71°-46'-10" East, along said southerly right of way line of Route 690, a distance of 486.65 feet to an angle point; thence,
North 68°-07'-00" East, continuing along said southerly right of way line of Route 690, a distance of 37.53 feet to the northwest corner of proposed Lot 4; thence, the following three courses and distances along said Lot 4:
South 21°-53'-00" East, a distance of 50.84 feet to a point; thence,
North 68°-07'-00" East, a distance of 23.84 feet to a point; thence,
North 21°-53'-00" West, a distance of 50.84 to a point on the southerly right of way line of said NYS Route 690; thence, continuing along said southerly right of way line of Route 690 the following three courses and distances:
North 68°-07'-00" East, a distance of 65.62 feet to an angle point; thence,
North 77°-43'-00" East, a distance of 197.00 feet to a concrete monument; thence,
North 76°-10'-30" East, a distance of 244.30 feet to the northwest corner of proposed Lot 3; thence, the following three courses and distances along said Lot 3:
South 13°-49'-30" East, a distance of 50.50 feet to a point; thence,
North 76°-10'-30" East, a distance of 23.84 feet to a point; thence,
North 13°-49'-30" West, a distance of 50.50 to a point on the southerly right of way line of said NYS Route 690; thence,
North 76°-10'-30" East, along said southerly right of way line of Route 690, a distance of 126.52 feet to a point; thence,
South 13°-49'-30" East, a distance of 656.54 feet to a point on the northerly line of lands now or formerly of the City of Syracuse (Tax Map No. 33.01-1-20); thence,
North 73°-21'-19" East, on said northerly line, a distance of 996.00 feet to a point on the easterly line of said property of the City of Syracuse; thence,
South 04°-09'-10" East, a distance of 39.81 feet to a point on the northerly line of lands now or formerly of New York Central Lines, LLC; thence,
South 73°-21'-19" West, on said northerly line, a distance of 2356.10 feet to a point on the easterly right of way line of South Midler Avenue; thence,
North 00°-23'-35" West, on said easterly right of way line, a distance of 31.20 feet to a concrete monument; thence,
North 73°-43'-32" East, a distance of 168.40 feet to a point; thence,
North 04°-19'-45" West, a distance of 61.40 feet to the northeast corner of aforesaid appropriation to the State of New York (Map No. 66, Parcel No. 107) ; thence, the following two (2) courses and distances on said appropriation:
South 75°-02'-08" West, a distance of 144.06 feet to a concrete monument; thence,
North 57°-44'-29" West, a distance of 21.26 feet to the Point of Beginning.

Said parcel containing 21.727 acres, more or less.

THE UNDERSIGNED HEREBY CERTIFIES TO

(1) PIONEER MIDLER AVENUE, LLC;

THAT THIS SURVEY WAS ACTUALLY MADE UPON THE GROUND; THAT IT AND THE INFORMATION, COURSES, ANGLES AND DISTANCES SHOWN THEREON ARE CORRECT; THAT THIS SURVEY CORRECTLY SHOWS THE LOCATION OF ALL BUILDINGS, STRUCTURES AND OTHER IMPROVEMENTS ON THE PREMISES, INCLUDING, WITHOUT LIMITAION, ALL STREETS, EASEMENTS, RIGHTS–OF–WAY AND UTILITY LINES; AND THAT, EXCEPT AS SHOWN, THERE ARE NO (a) EASEMENTS RIGHTS–OF–WAY ACROSS THE PREMISES; (b) PARTY WALLS, (c) ENCROACHMENTS ON ADJOINING PREMISES, STREETS OR ALLEYS OF ANY OF SAID BUILDINGS, STRUCTURES OR IMPROVEMENTS, OR (d) OBSERVABLE ENCROACHMENTS UPON THE PREMISES BY ANY BUILDING, STRUCTURE OR OTHER IMPROVEMENTS SITUATED ON ANY ADJOINING PREMISES; PHYSICAL EVIDENCE OF BOUNDARY LINES ON ALL SIDES OF THE PREMISES IS AS STATED ON THE SURVEY; AND THAT THE IMPROVEMENTS DO NOT VIOLATE ANY SET–BACK OR OTHER BUILDING LINES.

I HEREBY CERTIFY THAT THIS SURVEY HAS BEEN MADE USING THE LATEST RECORDED PLAT OR DEED, THAT THERE ARE NO OBSERVABLE ENCROACHMENTS OTHER THAN THOSE SHOWN, AND THAT THE SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WE, BERGMANN ASSOCIATES, INC., DO HEREBY CERTIFY THAT THIS INSTRUMENT SURVEY MAP WAS MADE FROM THE NOTES OF AN INSTRUMENT SURVEY LAST DATED 12/06/07 AND FROM THE REFERENCES LISTED HEREON.

KEVIN M. SULLIVAN, L.S. No. 049963 — DATE 12/21/07

ASBUILT PARKING CHART

TOTAL AREA SQ. FT.	REQUIRED RATIO	REQUIRED PARKING SPACES	PARKING SPACES PROVIDED
LOWE'S – 137,488	5.5/1,000 s.f.	759	537 (INC. 12 HANDICAP)
S.E.F.C.U. – 2,923	5.5/1,000 s.f.	16	43 (INC. 4 HANDICAP)

PROPOSED RETAIL DEVELOPMENT
621 S. MIDLER AVENUE
SYRACUSE, NY

PIONEER MIDLER AVENUE LLC.
250 SOUTH CLINTON
SYRACUSE, NY 13202

PIONEER COMPANIES

PREPARED BY:

BERGMANN associates
Engineers / Architects / Surveyors

REVISIONS

NO.	DATE	DESCRIPTION	REV.	CK'D
1	12/21/07	ADD SURVEY BASELINE AND BENCHMARKS	CCW	KMS

NOTE:
Unauthorized alteration or addition to this drawing is a violation of the New York State Education Law Article 145, Section 7209.

ALTA/ACSM LAND TITLE ASBUILT SURVEY MAP

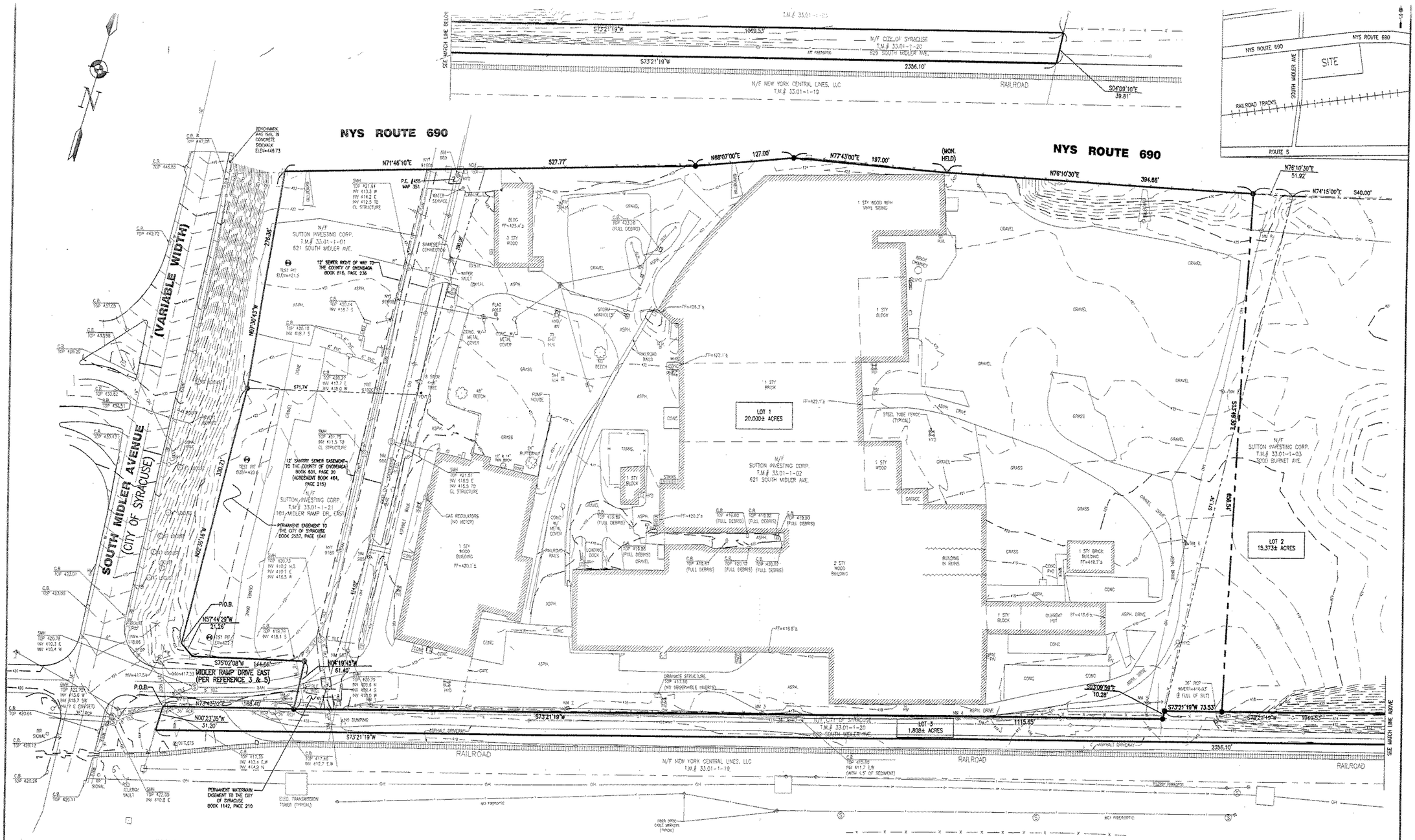
STATE OF NEW YORK KEVIN M. SULLIVAN LICENSED LAND SURVEYOR 049963 12/21/07

Project Manager: **K. Sullivan**
Designed by:
Drawn by: **C. Wood**
Checked by: **K. Sullivan**
Date Issued: **December 7, 2007**
Scale: **1" = 60'**
File Name: **I:\dev\pioneer\midler\6197asbuilt .dwg**

ASB-01

FIGURE 3

RE-SUBDIVIDION MAP - 2006



LEGEND

- DECIDUOUS TREE
- ONE-POST SIGN
- TWO-POST SIGN
- REBAR FOUND
- IRON PIPE FOUND
- CONCRETE MONUMENT
- CORNER TO BE SET
- WALKWAY LIGHT
- ELECTRIC TRANSFORMER
- LIGHT POLE
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- TRAFFIC CONTROL BOX
- TELEPHONE BOX
- ELECTRIC METER
- GAS METER
- GAS MARKER
- GV GAS VALVE
- HANDHOLES
- 420.5 SPOT ELEVATION
- 420 EXISTING CONTOUR LINE
- WV WATER VALVE
- HYD HYDRANT
- CATCH BASIN
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- UNKNOWN MANHOLE
- TRAFFIC MANHOLE
- BOLLARD/POST
- TEST PIT LOCATION
- GUY WIRE
- SAN SANITARY SEWER
- ST STORM SEWER
- E ELECTRIC LINE
- FO FIBER OPTIC LINE
- T TELEPHONE LINE
- W WATER LINE
- G GAS LINE
- OH OVERHEAD ELECTRIC
- X FENCE LINE
- GUIDE RAIL
- EDGE WOODS
- EASEMENT LINE
- PROPERTY LINE
- TAX PARCEL LINE
- RIGHT-OF-WAY LINE
- PROPOSED SUBDIVISION LINE

NOTES:

1) UTILITIES SHOWN WERE PLOTTED FROM RECORD INFORMATION ACQUIRED FROM THE UTILITY PROVIDERS SERVICING THIS AREA. THEY ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR THEIR COMPLETENESS.

2) EXISTING ZONING IS "INDUSTRIAL DISTRICT CLASS A" WHICH REQUIRES NO MINIMUM BUILDING SETBACKS.

3) CITY OF SYRACUSE PROPERTY (TAX MAP No's. 33.01-1-20) WAS CALCULATED FROM THE CONRAIL RIGHT OF WAY MAP (REFERENCE No. 10) AND APPROPRIATION MAP No. 66, PARCEL No. 110. THE CITY OF SYRACUSE HAD NO DEED FOR THIS PARCEL.

4) SITE IS NOT WITHIN A FLOOD HAZARD ZONE PER COMMUNITY PANEL No. 3605950060

REFERENCES:

1) DEED FILED IN THE ONONDAGA COUNTY CLERKS OFFICE DATED JUNE 2, 1961. BOOK 2046, PAGE 402 OF DEEDS.

2) APPROPRIATION MAP No. 66, PARCEL No's 105, 107, 108, AND 118, TITLED "SOUTH MIDLER AVENUE BRIDGE REMOVAL, CITY OF SYRACUSE-B.I.N. 2208650," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.

3) APPROPRIATION MAP No. 68, PARCEL No. 110, TITLED "SOUTH MIDLER AVENUE BRIDGE REMOVAL, CITY OF SYRACUSE-B.I.N. 2208650," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.

4) APPROPRIATION MAP No. 71, PARCEL No's 115 AND 118, TITLED "SOUTH MIDLER AVENUE BRIDGE REMOVAL, CITY OF SYRACUSE-B.I.N. 2208650," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.

5) APPROPRIATION MAP No. 67, PARCEL No. 109, TITLED "SOUTH MIDLER AVENUE BRIDGE REMOVAL, CITY OF SYRACUSE-B.I.N. 2208650," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.

6) APPROPRIATION MAP No. 354, PARCEL No's 448, 449, 450, AND 451, TITLED "INTERSTATE ROUTE 570-1-4.0, FORMAN AVENUE TO ERICKSON STREET, CITY OF SYRACUSE," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.

7) APPROPRIATION MAP No. 351, PARCEL No's 443 AND 455, TITLED "INTERSTATE ROUTE 570-1-4.0, FORMAN AVENUE TO ERICKSON STREET, CITY OF SYRACUSE," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.

REFERENCES: CONTINUED

8) APPROPRIATION MAP No. 529, PARCEL No 531, TITLED "INTERSTATE ROUTE CONNECTION No 570-1-4.1, ERICKSON STREET TO CITY LINE," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.

9) APPROPRIATION MAP No. 3-C, PARCEL No 664, TITLED "INTERSTATE ROUTE CONNECTION No 570-1-4.1, ERICKSON STREET TO CITY LINE," TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, REGION 3, SYRACUSE, NY.

10) CONRAIL RIGHT OF WAY MAP V73/5 (FORMERLY NEW YORK CENTRAL RAILROAD,) DATED 5/5/92.

11) ABSTRACT OF TITLE PREPARED BY TICOR TITLE INSURANCE COMPANY, TITLE No. 530420350.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA, ACSM AND NSPS IN 1999, AND INCLUDES ITEMS 1-11 AND 13 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA, NSPS, AND ACSM AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT THE SURVEY MEASUREMENTS WERE MADE IN ACCORDANCE WITH THE "MINIMUM ANGLE, DISTANCE, AND CLOSURE REQUIREMENTS FOR SURVEY MEASUREMENTS WHICH CONTROL LAND BOUNDARIES FOR ALTA/ACSM LAND TITLE SURVEYS."

THE UNDERSIGNED HEREBY CERTIFIES TO
1) LOWE'S HOME CENTERS, INC
2) TICOR TITLE INSURANCE COMPANY
THAT THIS SURVEY WAS ACTUALLY MADE UPON THE GROUND; THAT IT AND THE INFORMATION, COURSES, ANGLES AND DISTANCES SHOWN THEREON ARE CORRECT; THAT THIS SURVEY CORRECTLY SHOWS THE LOCATION OF ALL BUILDINGS, STRUCTURES AND OTHER IMPROVEMENTS ON THE PREMISES, INCLUDING, WITHOUT LIMITATION, ALL STREETS, EASEMENTS, RIGHTS-OF-WAY AND UTILITY LINES; AND THAT, EXCEPT AS SHOWN, THERE ARE NO (a) EASEMENTS RIGHTS-OF-WAY ACROSS THE PREMISES; (b) PARTY WALLS, (c) ENCROACHMENTS ON ADJOINING PREMISES, STREETS OR ALLEYS OF ANY OF SAID BUILDINGS, STRUCTURES OR IMPROVEMENTS, OR (d) OBSERVABLE ENCROACHMENTS UPON THE PREMISES BY ANY BUILDING, STRUCTURE OR OTHER IMPROVEMENTS SITUATED ON ANY ADJOINING PREMISES; PHYSICAL EVIDENCE OF BOUNDARY LINES ON ALL SIDES OF THE PREMISES IS AS STATED ON THE SURVEY; AND THAT THE IMPROVEMENTS DO NOT VIOLATE ANY SET-BACK OR OTHER BUILDING LINES.

I HEREBY CERTIFY THAT THIS SURVEY HAS BEEN MADE USING THE LATEST RECORDED PLAT OR DEED, THAT THERE ARE NO OBSERVABLE ENCROACHMENTS OTHER THAN THOSE SHOWN, AND THAT THE SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WE, BERGMANN ASSOCIATES, INC., DO HEREBY CERTIFY THAT THIS INSTRUMENT SURVEY MAP WAS MADE FROM THE NOTES OF AN INSTRUMENT SURVEY DATED 12/23/03 AND FROM THE REFERENCES LISTED HEREIN.

Kevin M. Sullivan 8/16/04

KEVIN M. SULLIVAN, L.S. No. 049963 DATE

DEVELOPMENT
621 S. MIDLER AVENUE
SYRACUSE, NY

PIONEER MIDLER AVENUE LLC.
250 SOUTH CLINTON
SYRACUSE, NY 13202

PIONEER
COMPANIES

PREPARED BY:

BERGMANN
associates
Engineers / Architects / Surveyors

REVISIONS

NO.	DATE	DESCRIPTION	REV.	CK'D

NOTE:
Unauthorized alteration or addition to this drawing is a violation of the New York State Education Law Article 145, Section 7209.

AUG 17 2004

ALTA/ACSM LAND TITLE SURVEY

STATE OF NEW YORK
KEVIN M. SULLIVAN
049963
LICENSED LAND SURVEYOR

Project Manager: K. Sullivan
Designed by:
Drawn by: C. Wood
Checked by: K. Sullivan
Date Issued: August 13, 2004
Scale: 1" = 60'

Project Number: 8197.00
File Name: f:\dwg\pioneer\midler\8197base.dwg
Drawing Number: EX-1

1 of 1

FIGURE 4

ISTD LAYOUT PLAN

SPARGE POINT

AREA B3

SPARGE POINT

ISTD ELECTRICAL DISTRIBUTION GEAR

ISTD OFF GAS TREATMENT EQUIPMENT

AREA B1

B-1 SHEET PILE

SPARGE POINT

AREA MW-3D

MW3D-SHEET PILE

656.54'

671.74'

APPROX. SCALE
0 30 60 90 FEET

LEGEND

- ISTD HEATER WELL (18 FT. TREATMENT DEPTH)
- ISTD HEATER WELL (20 FT. TREATMENT DEPTH)
- ISTD HEATER WELL (25 FT. TREATMENT DEPTH)
- ISTD HORIZONTAL VACUUM SCREENS
- ISTD MANIFOLD PIPE
- ISTD TREATMENT ZONE
- ISTD TEMPERATURE MONITORING POINT
- ISTD SURFACE COVER PERIMETER
- ISTD SURVEY POINTS (H-5S)
- SPARGE POINTS
- SHEET PILE

C&S ENGINEERS, INC.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone 315-455-2000
Fax 315-455-9667
www.cscos.com

DATE: APRIL 2006
SCALE: AS SHOWN
FILE NO. C81.002.001

Pioneer Midler Avenue LLC
Interim Remedial Measure Report
Heater Well Layout & ISTD Enhancements

Figure 2

Oct 15, 2007 - 2:30pm
F:\Project\C81 - Pioneer Development\Cadd IRM Reports\Figure 2.dwg

APPENDIX A

SEPTEMBER 14, 2010 LETTER CONCERNING REDUCTION OF GROUNDWATER SAMPLING FREQUENCY

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 7
615 Erie Boulevard West, Syracuse, New York 13204-2400
Phone: (315) 426-7551 • **Fax:** (315) 426-7499
Website: www.dec.ny.gov

Alexander B. Grannis
Commissioner

September 14, 2010

Mr. Jed Schneider
Pioneer Midler Avenue, LLC
250 South Clinton Street, Suite 200
Syracuse, New York 13202-1258

Re: Midler City Industrial Park
Site No. C734103
Groundwater Sampling Frequency

Dear Mr. Schneider:

The New York State Department of Environmental Conservation (NYSDEC) has reviewed your August 3, 2010 letter requesting that the groundwater sampling frequency be reduced from quarterly to bi-annually (spring and fall). This request is hereby approved. In addition, based on the analytical data (i.e. non-detect levels of contaminants of concern since 2005), MW-2D can be removed from the list of wells sampled.

Respectfully,

Karen A. Cahill
Project Manager
Division of Environmental Remediation

cc: T. Barba/S. Vinci, C&S
R. Jones, DOH

ec: M. Peachey, DEC
G. Townsend, DEC

APPENDIX B-1

GROUNDWATER QUALITY SUMMARY THROUGH DECEMBER 2011

Pioneer Midler Avenue LLC

Summary of Groundwater VOC Data

Parameter	Units	NYSDEC GA		MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D
Sample Date		Std	Guid	01/31/05	5/2/2006	08/23/07	02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	06/07/10
Chloromethane	ug/l			10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	0.48 J
Bromomethane	ug/l			10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Vinyl chloride	ug/l	2		10 U	50 U	10 U	10 U	10 U	0.15 J	10 U	0.19 J	0.19 J	0.15 J	0.28 J	0.55 J	1.1 J
Chloroethane	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Methylene chloride	ug/l	5		10 U	50 U	10 U	10 U	10 U	0.19 U	10 U	10 U	0.13 U	0.28 JB	0.32 JB	0.24 J B	0.18 JB
Acetone	ug/l		50	10 U	50 U	10 U	10 U	10 U	0.39 U	10 U	1 U	0.38 U	0.55 JB	0.41 JB	0.71 J B	2.6 JB
Carbon disulfide	ug/l	60		10 U	50 U	10 U	10 U	10 U	0.17 U	10 U	10 U	0.66 J	0.26 J	0.75 J	0.67 J	0.27 J
1,1-Dichloroethene	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,1-Dichloroethane	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Chloroform	ug/l	7		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,2-Dichloroethane	ug/l	0.6		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
MEK(2-Butanone)	ug/l		50	15	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,1,1-Trichloroethane	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Carbon tetrachloride	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Bromodichloromethane	ug/l		50	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,2-Dichloropropane	ug/l	1		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
cis-1,3-Dichloropropene	ug/l	0.4		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Trichloroethene	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Dibromochloromethane	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,1,2-Trichloroethane	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Benzene	ug/l	1		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
trans-1,3-Dichloropropene	ug/l	0.4		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Bromoform	ug/l		50	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
MIBK(4-Methyl-2-pentanone)	ug/l			10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
2-Hexanone	ug/l		50	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Tetrachloroethene	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Toluene	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	0.13 U	10 U	0.11 U	10 U	0.14 J	0.12 J
1,1,2,2-Tetrachloroethane	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Chlorobenzene	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Ethylbenzene	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Styrene	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Total Xylenes	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 U	10 U
Dichlorodifluoromethane	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Trichlorofluoromethane	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,1,2-Tricloro-1,2,2,-triflouroethane	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
trans-1,2-Dichloroethene	ug/l	5		10 U	50 U	10 U	10 U	10 U	0.15 J	10 U	10 U	0.1 J	0.17 J	10 U	0.14 J	10 U
Methyl tert butyl ether	ug/l	10		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
cis-1,2-Dichloroethene	ug/l	5		10 U	50 U	2.0 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.2 J	0.52 J
Cyclohexane	ug/l			10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Methylcyclohexane	ug/l			10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,2-Dibromoethane	ug/l			10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Isopropylbenzene	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,3-Dichlorobenzene	ug/l	3		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,4-Dichlorobenzene	ug/l	3		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,2-Dichlorobenzene	ug/l	3		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,2-Dibromo-3-chloropropane	ug/l	0.04		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
1,2,4-Trichlorobenzene	ug/l	5		10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U
Methyl acetate	ug/l			10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U

Notes: - indicates value exceeds Class GA Standard or Guidance level.

Data Qualifiers:
ND - Not Detected, U-undetected,
J or E - Estimated value,
RE - re-extraction, D-Diluted
B-Analyte found in associated blank as well as in the sample.
M- Manual Integrated Compound

Pioneer Midler Avenue LLC

Summary of Groundwater VOC Data

Parameter	Units	NYSDEC GA		MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Sample Date		Std	Guid	08/23/07	02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/03/09	09/30/09	12/21/09	03/02/10	06/07/10	10/26/10	05/12/11	12/07/12
Chloromethane	ug/l			10 U	10 U	10 U	0.1 J	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Bromomethane	ug/l			10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Vinyl chloride	ug/l	2		6 J	4 J	5 J	4.4 J	4 J	4.4 J	3.3 J	3.4 J	3.1 J	3.6	3.1 J	3.5	3	10 U
Chloroethane	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Methylene chloride	ug/l	5		10 U	10 U	10 U	0.19 U	10 U	10 U	0.15 U	0.28 U	0.31 JB	0.21 JB	0.14 JB	0.33 JB	0.28 J B	10 U
Acetone	ug/l		50	10 U	0.7 J	2 U	1 U	10 U	10 U	0.41 U	1.7 JB	0.6 JB	0.69 JB	3 JB	0.45 JB	0.91 J B	10 U
Carbon disulfide	ug/l	60		10 U	10 U	10 U	0.23 U	10 U	10 U	10 U	0.31 J	1.3 J	0.41 J	0.38 J	1 U	0.48 J	10 U
1,1-Dichloroethene	ug/l	5		10 U	10 U	10 U	11 U	10 U	10 U	10 U	0.13 J	0.1 J	0.13 J	10 U	1 U	1 U	10 U
1,1-Dichloroethane	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Chloroform	ug/l	7		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dichloroethane	ug/l	0.6		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
MEK(2-Butanone)	ug/l		50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,1,1-Trichloroethane	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Carbon tetrachloride	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Bromodichloromethane	ug/l		50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dichloropropane	ug/l	1		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
cis-1,3-Dichloropropene	ug/l	0.4		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Trichloroethene	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.1 J	10 U	0.17 J	1 U	10 U
Dibromochloromethane	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,1,2-Trichloroethane	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Benzene	ug/l	1		10 U	10 U	10 U	0.15 J	10 U	0.18 J	0.11 J	0.12 J	0.14 J	0.13 J	10 U	0.16 J	1 U	10 U
trans-1,3-Dichloropropene	ug/l	0.4		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Bromoform	ug/l		50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
MIBK(4-Methyl-2-pentanone)	ug/l			10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
2-Hexanone	ug/l		50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Tetrachloroethene	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Toluene	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.14 J	10 U	1 U	10 U	1 U	1 U	10 U
1,1,2,2-Tetrachloroethane	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Chlorobenzene	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Ethylbenzene	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Styrene	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Total Xylenes	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3	10 U	3 U	3 U	10 U
Dichlorodifluoromethane	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Trichlorofluoromethane	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,1,2-Tricloro-1,2,2,-triflouroethane	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
trans-1,2-Dichloroethene	ug/l	5		10 U	10 U	10 U	0.36 J	10 U	0.35 J	0.32 J	0.38 J	0.36 J	0.32 J	0.41 J	0.28 J	0.18 J	10 U
Methyl tert butyl ether	ug/l	10		10 U	10 U	10 U	0.33 J	10 U	0.25 J	0.34 J	0.31 J	0.32 J	0.36 J	0.29 J	0.32 J	0.15 J	10 U
cis-1,2-Dichloroethene	ug/l	5		6 J	5 J	5 J	4.3 J	4 J	4.4 J	3.2 J	3.5 J	3.5 J	3.9	3.1 J	3.9	2.3	4.8 J
Cyclohexane	ug/l			10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Methylcyclohexane	ug/l			10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dibromoethane	ug/l			10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Isopropylbenzene	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,3-Dichlorobenzene	ug/l	3		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,4-Dichlorobenzene	ug/l	3		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dichlorobenzene	ug/l	3		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dibromo-3-chloropropane	ug/l	0.04		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2,4-Trichlorobenzene	ug/l	5		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Methyl acetate	ug/l			10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	0.1 J	10 U

Notes: - indicates value exceeds Class GA Standard or Guidance level.

Data Qualifiers:
ND - Not Detected, U-undetected,
J or E - Estimated value,
RE - re-extraction, D-Diluted
B-Analyte found in associated blank as well as in the sample.
M- Manual Integrated Compound

Pioneer Midler Avenue LLC

Summary of Groundwater VOC Data

Parameter	Units	NYSDEC GA		MW-10D DL		MW-10D DL		MW-10D		MW-10D		MW-10D		MW-10D		MW-10D		MW-10D		MW-10D		MW-10D		MW-10D		MW-10D DL		MW-10D DL	
Sample Date		Std	Guid	01/31/05		05/02/06		08/23/07		02/12/08		06/02/08		10/06/08		12/23/08		03/02/09		06/02/09		09/30/09		12/21/09		03/02/10		06/07/10		10/26/10		05/12/11		12/07/11	
Chloromethane	ug/l			80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Bromomethane	ug/l			80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	0.47	J	20	U
Vinyl chloride	ug/l	2		32	DJ	58	D	78		96		82		160		76		170		160		180		170		150		170		140		93		120	
Chloroethane	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Methylene chloride	ug/l	5		80	U	40	U	2	J	20	U	20	U	0.16	U	20	U	0.11	U	1	U	2.2	JB	0.86	JB	0.99	J B	1.5	JB	1.7	JB	6.1	B	20	U
Acetone	ug/l		50	80	U	40	U	20	U	20	U	2	U	0.74	U	20	U	0.68	U	1.8	U	1.5	JB	1.6	JB	1.9	J B	3.2	JB	1.7	JB	3.2	J B	20	U
Carbon disulfide	ug/l	60		80	U	40	U	20	U	20	U	20	U	0.49	U	20	U	10	U	0.72	U	0.61	J	3.5	J	0.37	J	0.51	J	2	U	1.1	J B	20	U
1,1-Dichloroethene	ug/l	5		80	U	40	U	28		20	U	20	U	0.33	J	20	U	0.65	J	0.43	J	0.56	J	0.41	J	0.38	J	0.52	J	0.51	J	4	U	20	U
1,1-Dichloroethane	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	0.67	J	20	U
Chloroform	ug/l	7		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,2-Dichloroethane	ug/l	0.6		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
MEK(2-Butanone)	ug/l		50	80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,1,1-Trichloroethane	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Carbon tetrachloride	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Bromodichloromethane	ug/l		50	80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,2-Dichloropropane	ug/l	1		80	U	40	U	20	`	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
cis-1,3-Dichloropropene	ug/l	0.4		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Trichloroethene	ug/l	5		80	U	40	U	20	U	1	J	2	J	1.1	J	1	J	0.69	J	0.41	J	0.53	J	0.59	J	0.59	J	0.52	J	0.88	J	4	U	20	U
Dibromochloromethane	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,1,2-Trichloroethane	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Benzene	ug/l	1		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
trans-1,3-Dichloropropene	ug/l	0.4		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Bromoform	ug/l		50	80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
MIBK(4-Methyl-2-pentanone)	ug/l			80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
2-Hexanone	ug/l		50	80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Tetrachloroethene	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Toluene	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	0.14	U	20	U	0.21	J	0.22	J	2	U	20	U	2	U	4	U	20	U
1,1,2,2-Tetrachloroethane	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Chlorobenzene	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Ethylbenzene	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Styrene	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Total Xylenes	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	6	U	20	U	6		12	U	20	U
Dichlorodifluoromethane	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Trichlorofluoromethane	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,1,2-Tricloro-1,2,2,-triflouroethane	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
trans-1,2-Dichloroethene	ug/l	5		46	DJ	22	DJ	25		16	J	19	J	13		25		18		14	J	13	J	12	J	12		11	J	14		19		17	J
Methyl tert butyl ether	ug/l	10		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
cis-1,2-Dichloroethene	ug/l	5		700	D	420	D	220		200		320		190		340		200		220		280		200		210		190		290		380		440	
Cyclohexane	ug/l			80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Methylcyclohexane	ug/l			80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,2-Dibromoethane	ug/l			80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Isopropylbenzene	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,3-Dichlorobenzene	ug/l	3		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,4-Dichlorobenzene	ug/l	3		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,2-Dichlorobenzene	ug/l	3		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,2-Dibromo-3-chloropropane	ug/l	0.04		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
1,2,4-Trichlorobenzene	ug/l	5		80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U
Methyl acetate	ug/l			80	U	40	U	20	U	20	U	20	U	10	U	20	U	10	U	20	U	20	U	20	U	2	U	20	U	2	U	4	U	20	U

Notes: [ ] - indicates value exceeds Class GA Standard or Guidance level.

Data Qualifiers:
ND - Not Detected, U-undetected,
J or E - Estimated value,
RE - re-extraction, D-Diluted
B-Analyte found in associated blank as well as in the sample.
M- Manual Integrated Compound

Pioneer Midler Avenue LLC

Summary of Groundwater VOC Data

Parameter	Units	NYSDEC GA		MW-13D RE		MW-13D		MW-13D		MW-13D DL		MW-13D		MW-13D DL		MW-13D		MW-13D DL		MW-13D		MW-13D DL		MW-13D	
Sample Date		Std	Guid	05/03/06		04/11/07		07/20/07		07/20/07		08/23/07		08/23/07		10/11/07		10/11/07		02/12/08		06/02/08		06/02/08		10/06/08	
Chloromethane	ug/l			50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Bromomethane	ug/l			50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Vinyl chloride	ug/l	2		720	J	2,000		9,500	E	7,200		13,000	E	16,000	D	650	EJ	21,000		3100		450	E	380	D	290	J
Chloroethane	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	3	J	200	U	10	U
Methylene chloride	ug/l	5		50	U	32	B	2.6	JB	800	U	14	J	1,000	U	10	U	49	U	13	J	20	U	200	U	0.2	U
Acetone	ug/l		50	50	U	5,000		24	J	130	J	22	J	1,000	U	10	U	2,000	U	200	U	6	U	200	U	5.5	J
Carbon disulfide	ug/l	60		50	U	40	U	14	J	800	U	100	U	1,000	U	9	J	2,000	U	200	U	20	U	200	U	0.7	U
1,1-Dichloroethene	ug/l	5		50	U	40	U	5.3	J	110	J	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
1,1-Dichloroethane	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Chloroform	ug/l	7		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
1,2-Dichloroethane	ug/l	0.6		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
MEK(2-Butanone)	ug/l		50	50	U	1,300		50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	2	J	200	U	10	U
1,1,1-Trichloroethane	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Carbon tetrachloride	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Bromodichloromethane	ug/l		50	50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
1,2-Dichloropropane	ug/l	1		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
cis-1,3-Dichloropropene	ug/l	0.4		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	560	J	200	U	20	U	200	U	10	U
Trichloroethene	ug/l	5		50	U	40	U	91		98	J	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	0.17	J
Dibromochloromethane	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
1,1,2-Trichloroethane	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Benzene	ug/l	1		50	U	37	J	16	J	15	J	100	U	1,000	U	8	J	2,000	U	200	U	6	J	200	U	5.5	J
trans-1,3-Dichloropropene	ug/l	0.4		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Bromoform	ug/l		50	50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
MIBK(4-Methyl-2-pentanone)	ug/l			50	U	170	J	23	J	800	U	44	J	1,000	U	14		2,000		200	U	2	J	200	U	4.3	J
2-Hexanone	ug/l		50	50	U	200	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Tetrachloroethene	ug/l	5		50	U	40	U	160		160	J	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Toluene	ug/l	5		50	U	40		18	J	16	J	17	J	1,000	U	10	U	2,000	U	10	J	6	J	200	U	9.2	J
1,1,2,2-Tetrachloroethane	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Chlorobenzene	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Ethylbenzene	ug/l	5		50	U	40	U	0.86	J	800	U	100	U	1,000	U	1	J	2,000	U	200	U	20	U	200	U	0.49	J
Styrene	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Total Xylenes	ug/l	5		50	U	120	U	4.8	J	800	U	100	U	1,000	U	7	J	2,000	J	200	U	20	U	200	U	2.6	J
Dichlorodifluoromethane	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	310	EJ	2,000	EJ	200	U	20	U	200	U	10	U
Trichlorofluoromethane	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
1,1,2-Tricloro-1,2,2,-triflouroethane	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
trans-1,2-Dichloroethene	ug/l	5		13	J	95		150		93	J	93	J	1,000	U	60		2,000		36	J	9	J	200	U	10	
Methyl tert butyl ether	ug/l	10		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
cis-1,2-Dichloroethene	ug/l	5		630		980		3,400	E	3,200		1,600		1,700	D	10	D	2,000	D	430		39		39	DJ	38	
Cyclohexane	ug/l			50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Methylcyclohexane	ug/l			50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	3	J	200	U	4.7	J
1,2-Dibromoethane	ug/l			50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Isopropylbenzene	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	0.23	JM	2,000	JM	200	U	20	U	200	U	10	U
1,3-Dichlorobenzene	ug/l	3		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
1,4-Dichlorobenzene	ug/l	3		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
1,2-Dichlorobenzene	ug/l	3		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
1,2-Dibromo-3-chloropropane	ug/l	0.04		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
1,2,4-Trichlorobenzene	ug/l	5		50	U	40	U	50	U	800	U	100	U	1,000	U	10	U	2,000	U	200	U	20	U	200	U	10	U
Methyl acetate	ug/l			50	U	40	U	50	U	800	U	100	U	1,000	U	5	J	2,000	J	200	U	20	U	200	U	3.3	J

Notes: [ ] - indicates value exceeds Class GA Standard or Guidance level.

Data Qualifiers:
ND - Not Detected, U-undetected,
J or E - Estimated value,
RE - re-extraction, D-Diluted
B-Analyte found in associated blank as well as in the sample.
M- Manual Integrated Compound

Pioneer Midler Avenue LLC

Summary of Groundwater VOC Data

Parameter	Units	NYSDEC GA		MW-13D DL	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D DL	MW-13D DL	MW-13D DL	MW-13D DL	MW-13D DL
Sample Date		Std	Guid	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	03/02/10	06/07/10	10/26/10	05/12/11	12/07/11
Chloromethane	ug/l			20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Bromomethane	ug/l			20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Vinyl chloride	ug/l	2		270 J	150 J	570	1600	580	760	5800 E	7400	1500	510	1000	1800
Chloroethane	ug/l	5		20 U	200 U	15 J	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Methylene chloride	ug/l	5		1.2 U	200 U	4.3 U	17 U	8.8 JB	2.2 JB	3 J B	33 J B	9.8 JB	6.9 B	19 B	50 U
Acetone	ug/l		50	20 U	200 U	23 JB	12 U	7.5 JB	6.3 JB	7.6 B	29 J B	15 JB	2.7 JB	9 J B	50 U
Carbon disulfide	ug/l	60		1.0 U	200 U	200 U	3.5 J	1.9 J	9.5 J	1.4 J	27 J	2.1 J	0.59 J	2.2 J	50 U
1,1-Dichloroethene	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5.1	6.5 J	1.6 J	0.57 J	3.3 J	50 U
1,1-Dichloroethane	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Chloroform	ug/l	7		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,2-Dichloroethane	ug/l	0.6		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
MEK(2-Butanone)	ug/l		50	20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,1,1-Trichloroethane	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Carbon tetrachloride	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Bromodichloromethane	ug/l		50	20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,2-Dichloropropane	ug/l	1		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
cis-1,3-Dichloropropene	ug/l	0.4		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Trichloroethene	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	67	78	2.1 J	5 U	10 U	50 U
Dibromochloromethane	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,1,2-Trichloroethane	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Benzene	ug/l	1		5.0 J	200 U	4.9 J	4 J	3.7 J	4.1 J	5.4	50 U	5.4 J	5.3	3.6 J	50 U
trans-1,3-Dichloropropene	ug/l	0.4		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Bromoform	ug/l		50	20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
MIBK(4-Methyl-2-pentanone)	ug/l			3.7 J	200 U	200 U	4.2 J	50 U	2.1 J	5 U	50 U	100 U	5 U	10 U	50 U
2-Hexanone	ug/l		50	20 U	200 U	200 U	100 U	50 U	50 U	5 U	49 J	100 U	5 U	10 U	50 U
Tetrachloroethene	ug/l	5		20 U	200 U	1.3 U	100 U	50 U	50 U	46	50 U	2 J	5 U	10 U	50 U
Toluene	ug/l	5		9.2 J	200 U	12 J	13 J	7.9 J	5.8 J	7	8.5 J	7.1 J	5.8	4.3 J	50 U
1,1,2,2-Tetrachloroethane	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Chlorobenzene	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Ethylbenzene	ug/l	5		0.42 J	200 U	0.88 J	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Styrene	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Total Xylenes	ug/l	5		2.3 J	200 U	2.6 U	1.5 J	1.3 J	2.3 J	3.9 J	150	100 U	1.8	30 U	50 U
Dichlorodifluoromethane	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Trichlorofluoromethane	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,1,2-Tricloro-1,2,2,-triflouroethane	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
trans-1,2-Dichloroethene	ug/l	5		9.9 J	200 U	6.8 J	7.2 J	8.2 J	11 J	28	36 J	11 J	8.3	13	50 U
Methyl tert butyl ether	ug/l	10		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
cis-1,2-Dichloroethene	ug/l	5		36	50 J	86	81 J	61	120	2900 E	3200	970	260	670	1100
Cyclohexane	ug/l			20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Methylcyclohexane	ug/l			4 J	200 U	4.7 J	100 U	50 U	2.5 J	5 U	50 U	100 U	5 U	10 U	50 U
1,2-Dibromoethane	ug/l			20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Isopropylbenzene	ug/l	5		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,3-Dichlorobenzene	ug/l	3		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,4-Dichlorobenzene	ug/l	3		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,2-Dichlorobenzene	ug/l	3		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,2-Dibromo-3-chloropropane	ug/l	0.04		20 U	200 U	200 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
1,2,4-Trichlorobenzene	ug/l	5		20 U	200 U	0.83 U	100 U	50 U	50 U	5 U	50 U	100 U	5 U	10 U	50 U
Methyl acetate	ug/l			1.7 J	200 U	200 U	100 U	50 U	50 U	5 U	50 U	30 J	5 U	10 U	50 U

Notes: - indicates value exceeds Class GA Standard or Guidance level.

Data Qualifiers:
ND - Not Detected, U-undetected,
J or E - Estimated value,
RE - re-extraction, D-Diluted
B-Analyte found in associated blank as well as in the sample.
M- Manual Integrated Compound

Pioneer Midler Avenue LLC

Summary of Groundwater VOC Data

Parameter	Units	NYSDEC GA		MW-14D DL		MW-14D		MW-14D		MW-14D		MW-14D		MW-14D		MW-14D		MW-14D		MW-14D		MW-14D		MW-14D		MW-14D	
Sample Date		Std	Guid	02/12/08		06/02/08		10/06/08		12/23/08		03/02/09		06/02/09		09/30/09		12/21/09		03/02/10		06/07/10		10/26/10		05/12/11		12/07/11	
Chloromethane	ug/l			1000	U	1000	U	50	U	400	U	10	U	10	U	0.47	J	10	U	1	U	10	U	1	U	1	U	100	U
Bromomethane	ug/l			1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Vinyl chloride	ug/l	2		12000	D	12000		530		400	U	4.5	J	5.4	J	3.7	J	3.1	J	5.3		4.3	J	3.6		3.6		100	U
Chloroethane	ug/l	5		1000	U	1000	U	50	U	400	U	3.7	J	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Methylene chloride	ug/l	5		70	DJ	1000	U	3.2	U	83	J	0.19	U	0.12	U	0.27	JB	0.35	JB	0.25	J B	0.18	JB	0.29	JB	0.3	J B	100	U
Acetone	ug/l		50	2100	D	8000	J	840		170	J	7.8	JB	120	J	2.6	JB	2.4	JB	1.3	B	4	JB	1.5	B	1.2	B	100	U
Carbon disulfide	ug/l	60		1000	U	1000	U	2.7	U	400	U	10	U	10	U	19		2.6	J	1	U	0.68	J	0.53	J	1.4		100	U
1,1-Dichloroethene	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	200	U
1,1-Dichloroethane	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Chloroform	ug/l	7		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
1,2-Dichloroethane	ug/l	0.6		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
MEK(2-Butanone)	ug/l		50	680	DJ	2100	J	290		56	J	2.5	J	10	U	10	U	0.72	J	1	U	10	U	1	U	1	U	100	U
1,1,1-Trichloroethane	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Carbon tetrachloride	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Bromodichloromethane	ug/l		50	1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
1,2-Dichloropropane	ug/l	1		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
cis-1,3-Dichloropropene	ug/l	0.4		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Trichloroethene	ug/l	5		110	DJ	1000	U	50	U	400	U	10	U	0.13	J	0.24	J	0.35	J	0.45	J	0.32	J	0.34	J	0.21	J	100	U
Dibromochloromethane	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
1,1,2-Trichloroethane	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Benzene	ug/l	1		1000	U	1000	U	5.8	J	400	U	3	J	3.6	J	2.7	J	2.9	J	2.7		2.3	J	2.3		1.6		100	U
trans-1,3-Dichloropropene	ug/l	0.4		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Bromoform	ug/l		50	1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
MIBK(4-Methyl-2-pentanone)	ug/l			1000	U	1000	U	17	J	400	U	5.5	J	2.8	J	1.4	J	10	U	0.98	J	0.86	J	0.71	J	1	U	100	U
2-Hexanone	ug/l		50	1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Tetrachloroethene	ug/l	5		1000	U	1000	U	50	U	400	U	0.28	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Toluene	ug/l	5		1000	U	1000	U	24	J	400	U	14		17		14		15		14		13		12		8.9		100	U
1,1,2,2-Tetrachloroethane	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Chlorobenzene	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Ethylbenzene	ug/l	5		1000	U	1000	U	2.3	J	400	U	1.4	J	1.4	J	0.99	J	1.3	J	1.1		0.92	J	1		0.65	J	100	U
Styrene	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Total Xylenes	ug/l	5		1000	U	1000	U	10	J	400	U	6.3	JB	6.9	J	4.9	J	6.2	J	5.2		4.6	J	4.8		3.1		100	U
Dichlorodifluoromethane	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Trichlorofluoromethane	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
1,1,2-Tricloro-1,2,2,-triflouroethane	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
trans-1,2-Dichloroethene	ug/l	5		560	DJ	1200		270		150	J	21		13		6.9	J	4	J	3.4		3.1	J	2		2.4		100	U
Methyl tert butyl ether	ug/l	10		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	0.1	J	10	U	1	U	1	U	100	U
cis-1,2-Dichloroethene	ug/l	5		1000	D	1000	U	50	U	400	U	10	U	0.12	J	0.18	J	0.29	J	0.8	J	0.77	J	0.43	J	0.23	J	100	U
Cyclohexane	ug/l			1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Methylcyclohexane	ug/l			1000	U	1000	U	50	U	400	U	0.83	J	0.75	J	10	U	0.63	J	0.96	J	10	U	0.72	J	1	U	100	U
1,2-Dibromoethane	ug/l			1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Isopropylbenzene	ug/l	5		1000	U	1000	U	50	U	400	U	10	U	0.11	J	10	U	10	U	1	U	10	U	1	U	1	U	100	U
1,3-Dichlorobenzene	ug/l	3		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
1,4-Dichlorobenzene	ug/l	3		1000	U	1000	U	50	U	400	U	0.3	J	0.14	J	10	U	10	U	0.12	J	10	U	1	U	1	U	100	U
1,2-Dichlorobenzene	ug/l	3		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
1,2-Dibromo-3-chloropropane	ug/l	0.04		1000	U	1000	U	50	U	400	U	10	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
1,2,4-Trichlorobenzene	ug/l	5		1000	U	1000	U	50	U	400	U	0.32	U	10	U	10	U	10	U	1	U	10	U	1	U	1	U	100	U
Methyl acetate	ug/l			1000	U	1000	U	30	J	400	U	10	U	10	U	6.3	J	10	U	3.3		10	U	1	U	1	U	100	U

Notes: - indicates value exceeds Class GA Standard or Guidance level.

Data Qualifiers:
ND - Not Detected, U-undetected,
J or E - Estimated value,
RE - re-extraction, D-Diluted
B-Analyte found in associated blank as well as in the sample.
M- Manual Integrated Compound

Pioneer Midler Avenue LLC

Summary of Groundwater VOC Data

Parameter	Units	NYSDEC GA		MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D
Sample Date		Std	Guid	02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	06/07/10	10/26/10	05/12/11	12/07/11
Chloromethane	ug/l			40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Bromomethane	ug/l			40 U	40 U	0.32 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Vinyl chloride	ug/l	2		40 U	40 U	2.7 J	10 U	2.6 J	2.3 J	1.9 J	1.9 J	2.2	2.5 J	1.8	2	10 U
Chloroethane	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Methylene chloride	ug/l	5		4 J	4 U	0.16 U	10 U	10 U	0.11 U	0.28 JB	0.34 JB	0.28 J B	0.18 JB	0.3 JB	0.28 J B	10 U
Acetone	ug/l		50	5 J	40 U	1 U	10 U	10 U	1.6 U	1.6 JB	0.72 JB	1.5 B	2.9 JB	0.6 JB	0.71 J B	10 U
Carbon disulfide	ug/l	60		40 U	40 U	0.35 U	10 U	10 U	1.1 J	3.8 J	1.3 J	0.71 J	0.45 J	0.14 J	0.87 J	10 U
1,1-Dichloroethene	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,1-Dichloroethane	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Chloroform	ug/l	7		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dichloroethane	ug/l	0.6		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
MEK(2-Butanone)	ug/l		50	40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,1,1-Trichloroethane	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Carbon tetrachloride	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Bromodichloromethane	ug/l		50	40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dichloropropane	ug/l	1		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
cis-1,3-Dichloropropene	ug/l	0.4		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Trichloroethene	ug/l	5		40 U	40 U	10 U	10 U	0.25 J	0.21 J	0.2 J	0.23 J	0.27 J	10 U	1 U	0.16 J	10 U
Dibromochloromethane	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,1,2-Trichloroethane	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Benzene	ug/l	1		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
trans-1,3-Dichloropropene	ug/l	0.4		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Bromoform	ug/l		50	40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
MIBK(4-Methyl-2-pentanone)	ug/l			40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
2-Hexanone	ug/l		50	40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Tetrachloroethene	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Toluene	ug/l	5		40 U	40 U	0.11 U	10 U	0.12 U	10 U	0.15 J	10 U	1 U	10 U	1 U	1 U	10 U
1,1,2,2-Tetrachloroethane	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Chlorobenzene	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Ethylbenzene	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Styrene	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Total Xylenes	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	3 U	10 U	1 U	3 U	10 U
Dichlorodifluoromethane	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Trichlorofluoromethane	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,1,2-Tricloro-1,2,2,-triflouroethane	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
trans-1,2-Dichloroethene	ug/l	5		40 U	40 U	0.67 J	10 U	1.1 J	1.2 J	1.2 J	1.2 J	0.91 J	1.1 J	0.58 J	0.86 J	10 U
Methyl tert butyl ether	ug/l	10		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
cis-1,2-Dichloroethene	ug/l	5		6 J	4 J	4.1 J	10 U	4.9 J	4.4 J	4.4 J	4.4 J	4.5	5.3 J	3.6	4	6.4 J
Cyclohexane	ug/l			40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Methylcyclohexane	ug/l			40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dibromoethane	ug/l			40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Isopropylbenzene	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,3-Dichlorobenzene	ug/l	3		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,4-Dichlorobenzene	ug/l	3		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dichlorobenzene	ug/l	3		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2-Dibromo-3-chloropropane	ug/l	0.04		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
1,2,4-Trichlorobenzene	ug/l	5		40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U
Methyl acetate	ug/l			40 U	40 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	10 U

Notes: - indicates value exceeds Class GA Standard or Guidance level.

Data Qualifiers:
ND - Not Detected, U-undetected,
J or E - Estimated value,
RE - re-extraction, D-Diluted
B-Analyte found in associated blank as well as in the sample.
M- Manual Integrated Compound

Pioneer Midler Avenue LLC

Summary of Groundwater VOC Data

Parameter	Units	NYSDEC GA		MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D
Sample Date		Std	Guid	02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	06/07/10	10/26/10	05/12/11	12/07/11
Chloromethane	ug/l			400 U	400 U	10 U	200 U	10 U	10 U	1.9 J	10 U	1 U	10 U	1 U	1 U	25 U
Bromomethane	ug/l			400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Vinyl chloride	ug/l	2		190 J	400 U	1.6 J	200 U	1.9 J	1.6 J	1.9 J	1.9 J	2.6	1.3 J	1.6	1 U	25 U
Chloroethane	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Methylene chloride	ug/l	5		31 J	33 J	0.15 U	200 U	10 U	0.12 U	0.25 JB	0.3 JB	0.29 J B	0.19 JB	0.3 J B	0.27 J B	25 U
Acetone	ug/l		50	81 J	400 U	10 U	200 U	1 U	1.2 U	10 JB	1.6 JB	1.4 B	3.5 JB	1.3 B	0.95 J B	25 U
Carbon disulfide	ug/l	60		400 U	400 U	0.52 U	200 U	10 U	0.68 J	0.36 J	1.5 J	0.58 J B	0.22 J	0.26 J	1.4 B	25 U
1,1-Dichloroethene	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	0.12 J	1 U	10 U	1 U	1 U	50 U
1,1-Dichloroethane	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Chloroform	ug/l	7		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,2-Dichloroethane	ug/l	0.6		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
MEK(2-Butanone)	ug/l		50	400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,1,1-Trichloroethane	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Carbon tetrachloride	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	0.33 J	10 U	1 U	10 U	1 U	1 U	25 U
Bromodichloromethane	ug/l		50	400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,2-Dichloropropane	ug/l	1		400 U	400 U	10 U	200 U	10 U	10 U	0.12 J	10 U	1 U	10 U	1 U	1 U	25 U
cis-1,3-Dichloropropene	ug/l	0.4		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Trichloroethene	ug/l	5		400 U	400 U	10 U	200 U	10 U	0.12 J	10 U	0.21 J	0.26 J	10 U	0.19 J	0.2 J	25 U
Dibromochloromethane	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,1,2-Trichloroethane	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Benzene	ug/l	1		400 U	400 U	0.71 J	200 U	0.58 J	0.36 J	10 U	0.36 J	0.42 J	0.27 J	0.31 J	0.23 J	25 U
trans-1,3-Dichloropropene	ug/l	0.4		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Bromoform	ug/l		50	400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
MIBK(4-Methyl-2-pentanone)	ug/l			400 U	400 U	1.6 J	200 U	10 U	10 U	2.3 J	10 U	1 U	10 U	1 U	1 U	25 U
2-Hexanone	ug/l		50	400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Tetrachloroethene	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Toluene	ug/l	5		400 U	400 U	4.9 J	200 U	3.7 J	3 J	10 U	2 J	2	1.2 J	0.83 J	0.14 J	25 U
1,1,2,2-Tetrachloroethane	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	0.64 J	10 U	1 U	10 U	1 U	1 U	25 U
Chlorobenzene	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	0.2 J	0.2 J	1 U	10 U	1 U	1 U	25 U
Ethylbenzene	ug/l	5		400 U	400 U	0.35 J	200 U	0.37 J	0.22 J	10 U	0.2 J	0.24 J	10 U	1 U	0.12 J	25 U
Styrene	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Total Xylenes	ug/l	5		400 U	400 U	1.3 J	200 U	1 JB	0.9 J	0.31 J	0.59 J	0.82 J	0.34 J	0.53 J	3 U	25 U
Dichlorodifluoromethane	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Trichlorofluoromethane	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,1,2-Tricloro-1,2,2,-triflouroethane	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
trans-1,2-Dichloroethene	ug/l	5		30 J	400 U	1.6 J	200 U	2.5 J	2.7 J	10 U	2.9 J	2.5	2 J	2.2	2.2	25 U
Methyl tert butyl ether	ug/l	10		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
cis-1,2-Dichloroethene	ug/l	5		64 J	400 U	0.29 J	200 U	10 U	0.13 J	2.8 J	0.3 J	0.38 J	10 U	0.28 J	0.22 J	25 U
Cyclohexane	ug/l			400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Methylcyclohexane	ug/l			400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,2-Dibromoethane	ug/l			400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
Isopropylbenzene	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,3-Dichlorobenzene	ug/l	3		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	0.14 J	25 U
1,4-Dichlorobenzene	ug/l	3		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,2-Dichlorobenzene	ug/l	3		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,2-Dibromo-3-chloropropane	ug/l	0.04		400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U
1,2,4-Trichlorobenzene	ug/l	5		400 U	400 U	10 U	200 U	10 U	10 U	0.33 J	10 U	1 U	10 U	1 U	1 U	25 U
Methyl acetate	ug/l			400 U	400 U	10 U	200 U	10 U	10 U	10 U	10 U	1 U	10 U	1 U	1 U	25 U

Notes: - indicates value exceeds Class GA Standard or Guidance level.

Data Qualifiers:
ND - Not Detected, U-undetected,
J or E - Estimated value,
RE - re-extraction, D-Diluted
B-Analyte found in associated blank as well as in the sample.
M- Manual Integrated Compound

APPENDIX B-2

DATA USABILITY SUMMARY REPORTS FOR 2011 GROUNDWATER QUALITY SAMPLES

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

June 20, 2011

Mr. Wayne N. Randall
C&S Companies
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212

Re: DUSR and Data Validation Report
Midler Ave. Project
May 2011 Ground Water Sampling Event

Dear Mr. Randall:

The data usability summary report (DUSR) and data validation QA/QC review for the May 2011 ground water sampling event are enclosed with this letter. The data were acceptable for TestAmerica Connecticut SDG number 220-15492-1 with minor issues outlined in the QA/QC review. There were no data that were flagged as unusable (R) in these data packs.

A list of data validation acronyms and qualifiers is attached to assist you in interpreting the data validation reviews. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist C&S Companies.

Sincerely,
Alpha Geoscience

Donald Anné

Donald Anné
Senior Chemist

DCA:dca
enclosures

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Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.

R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.

N = Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.

J = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

ALPHA GEOSCIENCE

Geology
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Data Usability Summary Report for
TestAmerica Connecticut, SDG No. 220-15492-1

6 Ground Water Samples and 1 Trip Blank
Collected May 12, 2011

Prepared by: Donald Anné
June 20, 2011

The data packages contain the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data packs contained the results for 6 ground water samples and 1 trip blank analyzed for volatiles.

The overall performances of the analyses are acceptable. TestAmerica Connecticut did fulfill the requirements of the analytical method.

The data are acceptable with some issues that are identified in the accompanying data validation review. The following data were flagged:

- The positive volatile results for acetone and methylene chloride were flagged as "not detected" (U) in all 6 ground water samples and the trip blank because the levels reported in the samples were not significantly greater (more than 10 times) than the highest associated blank level.

- The positive volatile results for carbon disulfide were flagged as "not detected" (U) in samples MW-13DDL, MW-8D, MW-10D, and MW-10DDL because the levels reported in the samples were not significantly greater (more than 5 times) than the highest associated blank level.

- The volatile result for vinyl chloride and cis-1,2-dichloroethene in sample MW-13D and 1,2-dichloroethene in sample MW-10D were quantitated using data that were extrapolated beyond the highest calibration standard and flagged "E" by the laboratory. The results for vinyl chloride and cis-1,2-dichloroethene marked "E" in the samples were qualified as estimated (J).

All data are considered usable, with estimated (J) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

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ALPHA GEOSCIENCE

Geology
Hydrology
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Water Supply

QA/QC Review of Volatiles Data for
TestAmerica Connecticut, SDG No. 220-15492-1

6 Ground Water Samples and 1 Trip Blank
Collected May 12, 2011

Prepared by: Donald Anné
June 20, 2011

Holding Times: Samples were analyzed within NYSDEC ASP holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The compounds with ASP criteria for minimum RRFs met those requirements. The %RSD for bromomethane was above the maximum criteria (20.5%) for MSY on 01-26-11, but was not above 40%. No action is taken on two or fewer compounds not meeting criteria, provide the %RSDs were not above 40% and the RRFs were not below 0.010.

The average RRFs for target compounds were above the allowable minimum (0.010), as required.

The %RSDs for acetone and methylene chloride were above the allowable maximum (30%) for MSY on 01-26-11. Positive results for acetone and methylene chloride should be considered estimated (J) in associated samples.

Continuing Calibration: The compounds with ASP criteria for minimum RRF50s met those requirements. The %D for bromomethane was above the maximum criteria (20.5%) on 05-24-11 (Y5149.D), but was not above 40%. No action is taken on two or fewer compounds not meeting criteria, provide the %Ds were not above 40% and the RRF50s were not below 0.010.

The RRF50s for target compounds were above the allowable minimum (0.010), as required.

The %Ds for methyl acetate, cyclohexane, methyl ethyl ketone, and methylcyclohexane were above the allowable maximum (25%) on 05-23-11 (Y5127.D). The %Ds for bromomethane, methyl acetate, cyclohexane, and methylcyclohexane were above the allowable maximum (25%) on 05-24-11 (Y5149.D). Positive results for these compounds should be considered estimated (J) in associated samples.

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Blanks: Method blank MB 220-51186/3 contained traces of carbon disulfide (0.115 ug/L), acetone (0.879 ug/L), and methylene chloride (2.58 ug/L). Method blank MB 220-51189/3 contained traces of acetone (0.357 ug/L) and methylene chloride (2.80 ug/L). The trip blank contained a trace of carbon disulfide (0.14 ug/L). Positive results for acetone and methylene chloride that are less than ten times the highest blank level should be reported as not detected (U) in associated samples. Positive results for carbon disulfide that are less than five times the highest blank level should be reported as not detected (U) in associated samples.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for environmental samples.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for spiked compounds were below the allowable maximums and the percent recoveries were within QC limits for MS/MSD sample MW-16D.

Laboratory Control Sample: The percent recoveries for spiked compounds were within QC limits for aqueous samples LCS 220-51186/2, LCS 220-51189/2, and MSB 220-51186/6.

Compound ID: Checked compounds were within GC/MS quantitation and qualitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in SW846.

There are results for vinyl chloride and cis-1,2-dichloroethene in sample MW-13D, and cis-1,2-dichloroethene in samples MW-10D that were quantitated by extrapolating data above the highest calibration standard and marked 'E' by the laboratory. The samples were diluted by the laboratory and re-analyzed; therefore, the results that are flagged as 'E' in the undiluted samples should be considered estimated (J). The use of the diluted results for vinyl chloride and cis-1,2-dichloroethene is recommended. It is recommended that the undiluted results for samples be used for all other compounds.

SAMPLE SUMMARY

Client: C&S Engineers, Inc.

Job Number: 220-15492-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-15492-1	MW-16D	Water	05/12/2011 0800	05/16/2011 0855
220-15492-1MS	MW-16D	Water	05/12/2011 0800	05/16/2011 0855
220-15492-1MSD	MW-16D	Water	05/12/2011 0800	05/16/2011 0855
220-15492-2	MW-14D	Water	05/12/2011 1000	05/16/2011 0855
220-15492-3	MW-13D	Water	05/12/2011 0900	05/16/2011 0855
220-15492-4	MW-9D	Water	05/12/2011 1300	05/16/2011 0855
220-15492-5	MW-10D	Water	05/12/2011 1130	05/16/2011 0855
220-15492-6	MW-15D	Water	05/12/2011 1215	05/16/2011 0855
220-15492-7TB	TRIP BLANK	Water	05/12/2011 0000	05/16/2011 0855

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-16D**

Lab Sample ID: 220-15492-1
Client Matrix: Water

Date Sampled: 05/12/2011 0800
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51186	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5153.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/24/2011 1237			Final Weight/Volume:	5 mL
Prep Date:	05/24/2011 1237				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.10	1.0
Chloromethane	1.0	U	0.10	1.0
Vinyl chloride	1.8		0.10	1.0
Bromomethane	1.0	U *	0.10	1.0
Chloroethane	1.0	U *	0.10	1.0
Trichlorofluoromethane	1.0	U	0.10	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.10	1.0
Carbon disulfide	1.4	B	0.10	1.0
Methylene Chloride	0.27	~~J B~~ U	0.10	1.0
Acetone	0.95	~~J B~~ U	0.10	1.0
Methyl acetate	1.0	U	0.10	1.0
trans-1,2-Dichloroethene	2.2		0.10	1.0
Methyl tert-butyl ether	1.0	U	0.10	1.0
1,1-Dichloroethane	1.0	U	0.10	1.0
cis-1,2-Dichloroethene	0.22	J	0.10	1.0
Methyl Ethyl Ketone	1.0	U *	0.10	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1,1-Trichloroethane	1.0	U	0.10	1.0
Carbon tetrachloride	1.0	U	0.10	1.0
Benzene	0.23	J	0.10	1.0
Cyclohexane	1.0	U	0.10	1.0
Methylcyclohexane	1.0	U	0.10	1.0
Trichloroethene	0.20	J	0.10	1.0
1,2-Dichloropropane	1.0	U	0.10	1.0
Bromodichloromethane	1.0	U	0.10	1.0
cis-1,3-Dichloropropene	1.0	U	0.10	1.0
trans-1,3-Dichloropropene	1.0	U	0.10	1.0
1,1,2-Trichloroethane	1.0	U	0.10	1.0
Dibromochloromethane	1.0	U	0.10	1.0
Bromoform	1.0	U	0.10	1.0
Toluene	0.14	J	0.10	1.0
methyl isobutyl ketone	1.0	U	0.10	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,2-Dibromoethane	1.0	U	0.10	1.0
2-Hexanone	1.0	U *	0.10	1.0
Chlorobenzene	1.0	U	0.10	1.0
Ethylbenzene	0.12	J	0.10	1.0
Styrene	1.0	U	0.10	1.0
Isopropylbenzene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.10	1.0
1,3-Dichlorobenzene	0.14	J	0.10	1.0
1,4-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.10	1.0
1,2,4-Trichlorobenzene	1.0	U	0.10	1.0

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-16D**

Lab Sample ID: 220-15492-1
Client Matrix: Water

Date Sampled: 05/12/2011 0800
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51186	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5153.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/24/2011 1237			Final Weight/Volume:	5 mL
Prep Date:	05/24/2011 1237				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	3.0	U	0.10	3.0
Chloroform	1.0	U	0.10	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		76 - 114
Toluene-d8 (Surr)	100		88 - 110
4-Bromofluorobenzene	91		86 - 115

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-14D**

Lab Sample ID: 220-15492-2
Client Matrix: Water

Date Sampled: 05/12/2011 1000
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5133.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1525			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1525				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.10	1.0
Chloromethane	1.0	U	0.10	1.0
Vinyl chloride	3.6		0.10	1.0
Bromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	0.10	1.0
Trichlorofluoromethane	1.0	U	0.10	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.10	1.0
Carbon disulfide	1.4		0.10	1.0
Methylene Chloride	0.30	~~J B~~ U	0.10	1.0
Acetone	1.2	~~B~~ U	0.10	1.0
Methyl acetate	1.0	U *	0.10	1.0
trans-1,2-Dichloroethene	2.4		0.10	1.0
Methyl tert-butyl ether	1.0	U	0.10	1.0
1,1-Dichloroethane	1.0	U	0.10	1.0
cis-1,2-Dichloroethene	0.23	J	0.10	1.0
Methyl Ethyl Ketone	1.0	U	0.10	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1,1-Trichloroethane	1.0	U	0.10	1.0
Carbon tetrachloride	1.0	U	0.10	1.0
Benzene	1.6		0.10	1.0
Cyclohexane	1.0	U	0.10	1.0
Methylcyclohexane	1.0	U	0.10	1.0
Trichloroethene	0.21	J	0.10	1.0
1,2-Dichloropropane	1.0	U	0.10	1.0
Bromodichloromethane	1.0	U	0.10	1.0
cis-1,3-Dichloropropene	1.0	U	0.10	1.0
trans-1,3-Dichloropropene	1.0	U	0.10	1.0
1,1,2-Trichloroethane	1.0	U	0.10	1.0
Dibromochloromethane	1.0	U	0.10	1.0
Bromoform	1.0	U	0.10	1.0
Toluene	8.9		0.10	1.0
methyl isobutyl ketone	1.0	U	0.10	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,2-Dibromoethane	1.0	U	0.10	1.0
2-Hexanone	1.0	U	0.10	1.0
Chlorobenzene	1.0	U	0.10	1.0
Ethylbenzene	0.65	J	0.10	1.0
Styrene	1.0	U	0.10	1.0
Isopropylbenzene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.10	1.0
1,3-Dichlorobenzene	1.0	U	0.10	1.0
1,4-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.10	1.0
1,2,4-Trichlorobenzene	1.0	U	0.10	1.0

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-14D**

Lab Sample ID: 220-15492-2
Client Matrix: Water

Date Sampled: 05/12/2011 1000
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5133.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1525			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1525				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	3.1		0.10	3.0
Chloroform	1.0	U	0.10	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		76 - 114
Toluene-d8 (Surr)	106		88 - 110
4-Bromofluorobenzene	107		86 - 115

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-13D**

Lab Sample ID: 220-15492-3
Client Matrix: Water

Date Sampled: 05/12/2011 0900
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5134.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1550			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1550				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.10	1.0
Chloromethane	1.0	U	0.10	1.0
Vinyl chloride	1000	E J	0.10	1.0
Bromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	0.10	1.0
Trichlorofluoromethane	1.0	U	0.10	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.6		0.10	1.0
Carbon disulfide	1.2		0.10	1.0
Methylene Chloride	0.25	~~J B~~ U	0.10	1.0
Acetone	0.84	~~J B~~ U	0.10	1.0
Methyl acetate	1.0	U *	0.10	1.0
trans-1,2-Dichloroethene	15		0.10	1.0
Methyl tert-butyl ether	1.0	U	0.10	1.0
1,1-Dichloroethane	1.0	U	0.10	1.0
cis-1,2-Dichloroethene	810	E J	0.10	1.0
Methyl Ethyl Ketone	1.0	U	0.10	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1,1-Trichloroethane	1.0	U	0.10	1.0
Carbon tetrachloride	1.0	U	0.10	1.0
Benzene	3.9		0.10	1.0
Cyclohexane	1.0	U	0.10	1.0
Methylcyclohexane	0.79	J	0.10	1.0
Trichloroethene	1.0	U	0.10	1.0
1,2-Dichloropropane	1.0	U	0.10	1.0
Bromodichloromethane	1.0	U	0.10	1.0
cis-1,3-Dichloropropene	1.0	U	0.10	1.0
trans-1,3-Dichloropropene	1.0	U	0.10	1.0
1,1,2-Trichloroethane	1.0	U	0.10	1.0
Dibromochloromethane	1.0	U	0.10	1.0
Bromoform	1.0	U	0.10	1.0
Toluene	4.5		0.10	1.0
methyl isobutyl ketone	1.0	U	0.10	1.0
Tetrachloroethene	0.13	J	0.10	1.0
1,2-Dibromoethane	1.0	U	0.10	1.0
2-Hexanone	1.0	U	0.10	1.0
Chlorobenzene	1.0	U	0.10	1.0
Ethylbenzene	0.30	J	0.10	1.0
Styrene	1.0	U	0.10	1.0
Isopropylbenzene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.10	1.0
1,3-Dichlorobenzene	1.0	U	0.10	1.0
1,4-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.10	1.0
1,2,4-Trichlorobenzene	1.0	U	0.10	1.0

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-13D**

Lab Sample ID: 220-15492-3
Client Matrix: Water

Date Sampled: 05/12/2011 0900
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5134.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1550			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1550				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	1.4	J	0.10	3.0
Chloroform	1.0	U	0.10	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		76 - 114
Toluene-d8 (Surr)	108		88 - 110
4-Bromofluorobenzene	99		86 - 115

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: MW-13D DL

Lab Sample ID: 220-15492-3
Client Matrix: Water

Date Sampled: 05/12/2011 0900
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5141.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1846	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1846				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	10	U	1.0	10
Chloromethane	10	U	1.0	10
Vinyl chloride	1000		1.0	10
Bromomethane	10	U	1.0	10
Chloroethane	10	U	1.0	10
Trichlorofluoromethane	10	U	1.0	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	1.0	10
1,1-Dichloroethene	3.3	J	1.0	10
Carbon disulfide	2.2	J U	1.0	10
Methylene Chloride	19	B U	1.0	10
Acetone	9.0	J B U	1.0	10
Methyl acetate	10	U *	1.0	10
trans-1,2-Dichloroethene	13		1.0	10
Methyl tert-butyl ether	10	U	1.0	10
1,1-Dichloroethane	10	U	1.0	10
cis-1,2-Dichloroethene	670		1.0	10
Methyl Ethyl Ketone	10	U	1.0	10
1,2-Dichloroethane	10	U	1.0	10
1,1,1-Trichloroethane	10	U	1.0	10
Carbon tetrachloride	10	U	1.0	10
Benzene	3.6	J	1.0	10
Cyclohexane	10	U	1.0	10
Methylcyclohexane	10	U	1.0	10
Trichloroethene	10	U	1.0	10
1,2-Dichloropropane	10	U	1.0	10
Bromodichloromethane	10	U	1.0	10
cis-1,3-Dichloropropene	10	U	1.0	10
trans-1,3-Dichloropropene	10	U	1.0	10
1,1,2-Trichloroethane	10	U	1.0	10
Dibromochloromethane	10	U	1.0	10
Bromoform	10	U	1.0	10
Toluene	4.3	J	1.0	10
methyl isobutyl ketone	10	U	1.0	10
Tetrachloroethene	10	U	1.0	10
1,2-Dibromoethane	10	U	1.0	10
2-Hexanone	10	U	1.0	10
Chlorobenzene	10	U	1.0	10
Ethylbenzene	10	U	1.0	10
Styrene	10	U	1.0	10
Isopropylbenzene	10	U	1.0	10
1,1,2,2-Tetrachloroethane	10	U	1.0	10
1,3-Dichlorobenzene	10	U	1.0	10
1,4-Dichlorobenzene	10	U	1.0	10
1,2-Dichlorobenzene	10	U	1.0	10
1,2-Dibromo-3-Chloropropane	10	U	1.0	10
1,2,4-Trichlorobenzene	10	U	1.0	10

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-13D DL**

Lab Sample ID: 220-15492-3
Client Matrix: Water

Date Sampled: 05/12/2011 0900
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5141.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1846	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1846				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	30	U	1.0	30
Chloroform	10	U	1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		76 - 114
Toluene-d8 (Surr)	110		88 - 110
4-Bromofluorobenzene	94		86 - 115

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-9D**

Lab Sample ID: 220-15492-4
Client Matrix: Water

Date Sampled: 05/12/2011 1300
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5139.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1756			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1756				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.10	1.0
Chloromethane	1.0	U	0.10	1.0
Vinyl chloride	3.0		0.10	1.0
Bromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	0.10	1.0
Trichlorofluoromethane	1.0	U	0.10	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.10	1.0
Carbon disulfide	0.48	~~J~~ U	0.10	1.0
Methylene Chloride	0.28	~~J B~~ U	0.10	1.0
Acetone	0.91	~~J B~~ U	0.10	1.0
Methyl acetate	0.10	J *	0.10	1.0
trans-1,2-Dichloroethene	0.18	J	0.10	1.0
Methyl tert-butyl ether	0.15	J	0.10	1.0
1,1-Dichloroethane	1.0	U	0.10	1.0
cis-1,2-Dichloroethene	2.3		0.10	1.0
Methyl Ethyl Ketone	1.0	U	0.10	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1,1-Trichloroethane	1.0	U	0.10	1.0
Carbon tetrachloride	1.0	U	0.10	1.0
Benzene	1.0	U	0.10	1.0
Cyclohexane	1.0	U	0.10	1.0
Methylcyclohexane	1.0	U	0.10	1.0
Trichloroethene	1.0	U	0.10	1.0
1,2-Dichloropropane	1.0	U	0.10	1.0
Bromodichloromethane	1.0	U	0.10	1.0
cis-1,3-Dichloropropene	1.0	U	0.10	1.0
trans-1,3-Dichloropropene	1.0	U	0.10	1.0
1,1,2-Trichloroethane	1.0	U	0.10	1.0
Dibromochloromethane	1.0	U	0.10	1.0
Bromoform	1.0	U	0.10	1.0
Toluene	1.0	U	0.10	1.0
methyl isobutyl ketone	1.0	U	0.10	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,2-Dibromoethane	1.0	U	0.10	1.0
2-Hexanone	1.0	U	0.10	1.0
Chlorobenzene	1.0	U	0.10	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.10	1.0
Isopropylbenzene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.10	1.0
1,3-Dichlorobenzene	1.0	U	0.10	1.0
1,4-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.10	1.0
1,2,4-Trichlorobenzene	1.0	U	0.10	1.0

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-9D**

Lab Sample ID: 220-15492-4
Client Matrix: Water

Date Sampled: 05/12/2011 1300
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5139.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1756			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1756				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	3.0	U	0.10	3.0
Chloroform	1.0	U	0.10	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		76 - 114
Toluene-d8 (Surr)	109		88 - 110
4-Bromofluorobenzene	92		86 - 115

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-10D**

Lab Sample ID: 220-15492-5
Client Matrix: Water

Date Sampled: 05/12/2011 1130
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5136.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1640			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1640				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.10	1.0
Chloromethane	1.0	U	0.10	1.0
Vinyl chloride	97		0.10	1.0
Bromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	0.10	1.0
Trichlorofluoromethane	1.0	U	0.10	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	0.87	J	0.10	1.0
Carbon disulfide	0.62	~~J~~ U	0.10	1.0
Methylene Chloride	0.22	~~J~~B U	0.10	1.0
Acetone	0.61	~~J~~B U	0.10	1.0
Methyl acetate	1.0	U *	0.10	1.0
trans-1,2-Dichloroethene	19		0.10	1.0
Methyl tert-butyl ether	1.0	U	0.10	1.0
1,1-Dichloroethane	1.0	U	0.10	1.0
cis-1,2-Dichloroethene	390	E J	0.10	1.0
Methyl Ethyl Ketone	1.0	U	0.10	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1,1-Trichloroethane	1.0	U	0.10	1.0
Carbon tetrachloride	1.0	U	0.10	1.0
Benzene	1.0	U	0.10	1.0
Cyclohexane	1.0	U	0.10	1.0
Methylcyclohexane	1.0	U	0.10	1.0
Trichloroethene	0.83	J	0.10	1.0
1,2-Dichloropropane	1.0	U	0.10	1.0
Bromodichloromethane	1.0	U	0.10	1.0
cis-1,3-Dichloropropene	1.0	U	0.10	1.0
trans-1,3-Dichloropropene	1.0	U	0.10	1.0
1,1,2-Trichloroethane	1.0	U	0.10	1.0
Dibromochloromethane	1.0	U	0.10	1.0
Bromoform	1.0	U	0.10	1.0
Toluene	1.0	U	0.10	1.0
methyl isobutyl ketone	1.0	U	0.10	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,2-Dibromoethane	1.0	U	0.10	1.0
2-Hexanone	1.0	U	0.10	1.0
Chlorobenzene	1.0	U	0.10	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.10	1.0
Isopropylbenzene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.10	1.0
1,3-Dichlorobenzene	1.0	U	0.10	1.0
1,4-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.10	1.0
1,2,4-Trichlorobenzene	1.0	U	0.10	1.0

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **MW-10D**

Lab Sample ID: 220-15492-5
Client Matrix: Water

Date Sampled: 05/12/2011 1130
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5136.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1640			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1640				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	3.0	U	0.10	3.0
Chloroform	1.0	U	0.10	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		76 - 114
Toluene-d8 (Surr)	108		88 - 110
4-Bromofluorobenzene	93		86 - 115

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: MW-10D DL

Lab Sample ID: 220-15492-5
Client Matrix: Water

Date Sampled: 05/12/2011 1130
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51186	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5160.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/24/2011 1612	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	05/24/2011 1612				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	4.0	U	0.40	4.0
Chloromethane	4.0	U	0.40	4.0
Vinyl chloride	93		0.40	4.0
Bromomethane	0.47	J *	0.40	4.0
Chloroethane	4.0	U *	0.40	4.0
Trichlorofluoromethane	4.0	U	0.40	4.0
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U	0.40	4.0
1,1-Dichloroethene	0.67	J	0.40	4.0
Carbon disulfide	1.1	J B U	0.40	4.0
Methylene Chloride	6.1	B U	0.40	4.0
Acetone	3.2	J B U	0.40	4.0
Methyl acetate	4.0	U	0.40	4.0
trans-1,2-Dichloroethene	19		0.40	4.0
Methyl tert-butyl ether	4.0	U	0.40	4.0
1,1-Dichloroethane	4.0	U	0.40	4.0
cis-1,2-Dichloroethene	380		0.40	4.0
Methyl Ethyl Ketone	4.0	U *	0.40	4.0
1,2-Dichloroethane	4.0	U	0.40	4.0
1,1,1-Trichloroethane	4.0	U	0.40	4.0
Carbon tetrachloride	4.0	U	0.40	4.0
Benzene	4.0	U	0.40	4.0
Cyclohexane	4.0	U	0.40	4.0
Methylcyclohexane	4.0	U	0.40	4.0
Trichloroethene	4.0	U	0.40	4.0
1,2-Dichloropropane	4.0	U	0.40	4.0
Bromodichloromethane	4.0	U	0.40	4.0
cis-1,3-Dichloropropene	4.0	U	0.40	4.0
trans-1,3-Dichloropropene	4.0	U	0.40	4.0
1,1,2-Trichloroethane	4.0	U	0.40	4.0
Dibromochloromethane	4.0	U	0.40	4.0
Bromoform	4.0	U	0.40	4.0
Toluene	4.0	U	0.40	4.0
methyl isobutyl ketone	4.0	U	0.40	4.0
Tetrachloroethene	4.0	U	0.40	4.0
1,2-Dibromoethane	4.0	U	0.40	4.0
2-Hexanone	4.0	U *	0.40	4.0
Chlorobenzene	4.0	U	0.40	4.0
Ethylbenzene	4.0	U	0.40	4.0
Styrene	4.0	U	0.40	4.0
Isopropylbenzene	4.0	U	0.40	4.0
1,1,2,2-Tetrachloroethane	4.0	U	0.40	4.0
1,3-Dichlorobenzene	4.0	U	0.40	4.0
1,4-Dichlorobenzene	4.0	U	0.40	4.0
1,2-Dichlorobenzene	4.0	U	0.40	4.0
1,2-Dibromo-3-Chloropropane	4.0	U	0.40	4.0
1,2,4-Trichlorobenzene	4.0	U	0.40	4.0

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: MW-10DDL

Lab Sample ID: 220-15492-5
Client Matrix: Water

Date Sampled: 05/12/2011 1130
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51186	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5160.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/24/2011 1612	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	05/24/2011 1612				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	12	U	0.40	12
Chloroform	4.0	U	0.40	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		76 - 114
Toluene-d8 (Surr)	102		88 - 110
4-Bromofluorobenzene	88		86 - 115

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: MW-15D

Lab Sample ID: 220-15492-6
Client Matrix: Water

Date Sampled: 05/12/2011 1215
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5140.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1821			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1821				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.10	1.0
Chloromethane	1.0	U	0.10	1.0
Vinyl chloride	2.0		0.10	1.0
Bromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	0.10	1.0
Trichlorofluoromethane	1.0	U	0.10	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.10	1.0
Carbon disulfide	0.87	J	0.10	1.0
Methylene Chloride	0.28	~~J B~~ U	0.10	1.0
Acetone	0.71	~~J B~~ U	0.10	1.0
Methyl acetate	1.0	U *	0.10	1.0
trans-1,2-Dichloroethene	0.86	J	0.10	1.0
Methyl tert-butyl ether	1.0	U	0.10	1.0
1,1-Dichloroethane	1.0	U	0.10	1.0
cis-1,2-Dichloroethene	4.0		0.10	1.0
Methyl Ethyl Ketone	1.0	U	0.10	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1,1-Trichloroethane	1.0	U	0.10	1.0
Carbon tetrachloride	1.0	U	0.10	1.0
Benzene	1.0	U	0.10	1.0
Cyclohexane	1.0	U	0.10	1.0
Methylcyclohexane	1.0	U	0.10	1.0
Trichloroethene	0.16	J	0.10	1.0
1,2-Dichloropropane	1.0	U	0.10	1.0
Bromodichloromethane	1.0	U	0.10	1.0
cis-1,3-Dichloropropene	1.0	U	0.10	1.0
trans-1,3-Dichloropropene	1.0	U	0.10	1.0
1,1,2-Trichloroethane	1.0	U	0.10	1.0
Dibromochloromethane	1.0	U	0.10	1.0
Bromoform	1.0	U	0.10	1.0
Toluene	1.0	U	0.10	1.0
methyl isobutyl ketone	1.0	U	0.10	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,2-Dibromoethane	1.0	U	0.10	1.0
2-Hexanone	1.0	U	0.10	1.0
Chlorobenzene	1.0	U	0.10	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.10	1.0
Isopropylbenzene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.10	1.0
1,3-Dichlorobenzene	1.0	U	0.10	1.0
1,4-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.10	1.0
1,2,4-Trichlorobenzene	1.0	U	0.10	1.0

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: MW-15D

Lab Sample ID: 220-15492-6
Client Matrix: Water

Date Sampled: 05/12/2011 1215
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5140.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1821			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1821				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	3.0	U	0.10	3.0
Chloroform	1.0	U	0.10	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		76 - 114
Toluene-d8 (Surr)	110		88 - 110
4-Bromofluorobenzene	93		86 - 115

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 220-15492-7TB
Client Matrix: Water

Date Sampled: 05/12/2011 0000
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5138.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1730			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1730				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dichlorodifluoromethane	1.0	U	0.10	1.0
Chloromethane	1.0	U	0.10	1.0
Vinyl chloride	1.0	U	0.10	1.0
Bromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	0.10	1.0
Trichlorofluoromethane	1.0	U	0.10	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.10	1.0
Carbon disulfide	0.14	J	0.10	1.0
Methylene Chloride	0.29	~~J B~~ U	0.10	1.0
Acetone	0.31	~~J B~~ U	0.10	1.0
Methyl acetate	1.0	U *	0.10	1.0
trans-1,2-Dichloroethene	1.0	U	0.10	1.0
Methyl tert-butyl ether	1.0	U	0.10	1.0
1,1-Dichloroethane	1.0	U	0.10	1.0
cis-1,2-Dichloroethene	1.0	U	0.10	1.0
Methyl Ethyl Ketone	1.0	U	0.10	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1,1-Trichloroethane	1.0	U	0.10	1.0
Carbon tetrachloride	1.0	U	0.10	1.0
Benzene	1.0	U	0.10	1.0
Cyclohexane	1.0	U	0.10	1.0
Methylcyclohexane	1.0	U	0.10	1.0
Trichloroethene	1.0	U	0.10	1.0
1,2-Dichloropropane	1.0	U	0.10	1.0
Bromodichloromethane	1.0	U	0.10	1.0
cis-1,3-Dichloropropene	1.0	U	0.10	1.0
trans-1,3-Dichloropropene	1.0	U	0.10	1.0
1,1,2-Trichloroethane	1.0	U	0.10	1.0
Dibromochloromethane	1.0	U	0.10	1.0
Bromoform	1.0	U	0.10	1.0
Toluene	1.0	U	0.10	1.0
methyl isobutyl ketone	1.0	U	0.10	1.0
Tetrachloroethene	1.0	U	0.10	1.0
1,2-Dibromoethane	1.0	U	0.10	1.0
2-Hexanone	1.0	U	0.10	1.0
Chlorobenzene	1.0	U	0.10	1.0
Ethylbenzene	1.0	U	0.10	1.0
Styrene	1.0	U	0.10	1.0
Isopropylbenzene	1.0	U	0.10	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.10	1.0
1,3-Dichlorobenzene	1.0	U	0.10	1.0
1,4-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dichlorobenzene	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.10	1.0
1,2,4-Trichlorobenzene	1.0	U	0.10	1.0

Client: C&S Engineers, Inc.

Job Number: 220-15492-1
Sdg Number:

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 220-15492-7TB
Client Matrix: Water

Date Sampled: 05/12/2011 0000
Date Received: 05/16/2011 0855

OLM04.2/VOL Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/VOL	Analysis Batch:	220-51189	Instrument ID:	MSY
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Y5138.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/23/2011 1730			Final Weight/Volume:	5 mL
Prep Date:	05/23/2011 1730				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	3.0	U	0.10	3.0
Chloroform	1.0	U	0.10	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		76 - 114
Toluene-d8 (Surr)	109		88 - 110
4-Bromofluorobenzene	93		86 - 115

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1 Analy Batch No.: 47465

SDG No.:

Instrument ID: MSY GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/26/2011 15:38 Calibration End Date: 01/26/2011 18:28 Calibration ID: 9228

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 220-47465/1	Y3939.D
Level 2	IC 220-47465/2	Y3940.D
Level 3	IC 220-47465/3	Y3941.D
Level 4	IC 220-47465/4	Y3942.D
Level 5	IC 220-47465/5	Y3943.D
Level 6	IC 220-47465/6	Y3945.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Monochloropentafluoroethane	0.1523 0.1997	0.1969	0.1930	0.2041	0.2003	Ave		0.1910				10.1					
Dichlorodifluoromethane	2.3157 1.9988	1.7190	2.1187	2.0710	1.9374	Ave		2.0268			0.0100	9.8					
1,1-Difluoroethane	0.7492 0.4696	0.5536	0.5461	0.5258	0.3953	Ave		0.5399				21.9					
Chlorodifluoromethane	4.2197 3.3525	3.6397	3.4856	3.4797	3.2848	Ave		3.5770				9.4					
Chloromethane	1.6408 1.3129	1.3330	1.3535	1.3322	1.2808	Ave		1.3755			0.0100	9.6					
Vinyl chloride	1.4746 1.5127	1.2303	1.3420	1.5177	1.4637	Ave		1.4235			0.1000	8.0		20.5			
Bromomethane	1.9926 1.0885	1.3767	1.2322	1.1842	1.1257	Ave		1.3333			0.1000	25.4	*	20.5			
Chloroethane	0.8457 0.6829	0.7060	0.7531	0.7187	0.6081	Ave		0.7191			0.0100	10.9					
Trichlorofluoromethane	4.5655 3.0529	3.9607	3.8644	3.7649	3.4550	Ave		3.7772			0.0100	13.5					
1,1-Dichloro-1-fluoroethane	4.3889 3.6223	4.0322	3.9244	3.8714	3.6212	Ave		3.9101				7.3					
1,1-Dichloroethene	1.9829 1.6925	1.7288	1.6582	1.6902	1.5913	Ave		1.7240			0.1000	7.8		20.5			
Carbon disulfide	6.3400 5.3389	5.5467	5.3982	5.3875	5.1084	Ave		5.5200			0.0100	7.7					
1,1,2-Trichloro-1,2,2-trifluoroethane	2.1689 2.0301	2.1045	2.0187	2.0407	1.8905	Ave		2.0422			0.0100	4.6					
1,1,1-Trifluoro-2,2-dichloroethane	2.9187 2.6536	2.6930	2.5471	2.6115	2.4024	Ave		2.6377				6.5					
Iodomethane	1.8639 3.1574	2.3589	2.6971	2.9815	2.8203	Ave		2.6465				17.7					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1 Analy Batch No.: 47465

SDG No.:

Instrument ID: MSY GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/26/2011 15:38 Calibration End Date: 01/26/2011 18:28 Calibration ID: 9228

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	0.3954 0.6474	0.4011	0.4786	0.5262	0.4530	Ave		0.4836				19.4					
Methylene Chloride	5.2782 1.7955	2.0321	1.8065	1.7635	1.6289	Ave		2.3841			0.0100	59.7					
Acetone	1.8176 1.1377	1.0099	1.0052	0.9184	0.8234	Ave		1.1187			0.0100	32.0					
trans-1,2-Dichloroethene	2.0094 1.8740	1.7774	1.7092	1.7324	1.6539	Ave		1.7927			0.0100	7.2					
Methyl acetate	4.7109 4.6899	4.3009	4.3011	4.3871	4.1320	Ave		4.4203			0.0100	5.3					
Methyl tert-butyl ether	5.5226 5.7697	5.1778	5.2339	5.3974	5.1462	Ave		5.3746			0.0100	4.5					
2-Methyl-2-propanol	0.1853 0.2391	0.1902	0.1926	0.2009	0.1978	Ave		0.2010				9.7					
1,1-Dichloroethane	3.3541 3.3115	3.1295	3.0381	3.1193	2.9452	Ave		3.1496			0.2000	5.0		20.5			
Acrylonitrile	0.6306 0.6950	0.5796	0.5957	0.6083	0.5993	Ave		0.6181				6.7					
Vinyl acetate	1.2703 1.5617	1.3884	1.4297	1.4996	1.4290	Ave		1.4298				7.0					
cis-1,2-Dichloroethene	1.8788 1.9676	1.6904	1.7482	1.7877	1.7350	Ave		1.8013			0.0100	5.7					
Cyclohexane	0.3123 0.4145	0.3513	0.3608	0.3830	0.3649	Ave		0.3645			0.0100	9.3					
Chloroform	4.2328 3.7080	3.6898	3.5479	3.5766	3.3887	Ave		3.6906			0.2000	7.8		20.5			
Carbon tetrachloride	0.7119 0.5849	0.6145	0.5963	0.5969	0.5470	Ave		0.6086			0.1000	9.1		20.5			
Tetrahydrofuran	0.5466 0.6772	0.5126	0.5722	0.6096	0.5908	Ave		0.5849				9.7					
1,1,1-Trichloroethane	0.7737 0.6505	0.6785	0.6527	0.6569	0.6056	Ave		0.6697			0.1000	8.4		20.5			
Methyl Ethyl Ketone	0.9664 1.1570	0.8093	0.8819	0.8920	0.8680	Ave		0.9291			0.0100	13.2					
Benzene	1.2540 1.1734	1.1220	1.0992	1.1257	1.0620	Ave		1.1394			0.5000	5.9		20.5			
1,2-Dichloroethane	3.3957 3.0010	2.9802	2.9487	2.9572	2.8086	Ave		3.0152			0.1000	6.6		20.5			
Methylcyclohexane	0.3136 0.4123	0.3545	0.3636	0.3809	0.3650	Ave		0.3650			0.0100	8.9					

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1 Analy Batch No.: 47465

SDG No.:

Instrument ID: MSY GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/26/2011 15:38 Calibration End Date: 01/26/2011 18:28 Calibration ID: 9228

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.3914 0.3880	0.3740	0.3690	0.3725	0.3524	Ave		0.3746			0.3000	3.8		20.5			
Dibromomethane	1.6031 1.4433	1.2997	1.3341	1.3548	1.3110	Ave		1.3910				8.3					
1,2-Dichloropropane	0.3042 0.3105	0.2852	0.2819	0.2880	0.2781	Ave		0.2913			0.0100	4.5					
Bromodichloromethane	0.5520 0.4878	0.4805	0.4688	0.4774	0.4496	Ave		0.4860			0.2000	7.2		20.5			
1,4-Dioxane	0.0136 0.0372	0.0228	0.0218	0.0241	0.0297	Ave		0.0249				31.9					
Methyl methacrylate	0.1721 0.2379	0.1814	0.2000	0.2168	0.2127	Ave		0.2035				11.9					
2-Chloroethyl vinyl ether	0.1257 0.1705	0.1458	0.1538	0.1694	0.1679	Ave		0.1555				11.3					
cis-1,3-Dichloropropene	0.4846 0.5320	0.4822	0.4862	0.5087	0.4895	Ave		0.4972			0.2000	3.9		20.5			
Toluene	1.5155 1.6651	1.5589	1.5483	1.5950	1.5074	Ave		1.5650			0.4000	3.7		20.5			
Tetrachloroethene	0.3839 0.3749	0.3737	0.3542	0.3485	0.3345	Ave		0.3616			0.2000	5.2		20.5			
methyl isobutyl ketone	0.2964 0.4062	0.3005	0.3241	0.3491	0.3382	Ave		0.3357			0.0100	12.0					
trans-1,3-Dichloropropene	0.4570 0.5425	0.4869	0.4982	0.5232	0.5062	Ave		0.5023			0.1000	5.9		20.5			
1,1,2-Trichloroethane	0.3291 0.3064	0.2969	0.2969	0.2963	0.2805	Ave		0.3010			0.1000	5.3		20.5			
Ethyl methacrylate	0.2903 0.5106	0.3513	0.3815	0.4320	0.4388	Ave		0.4008				19.2					
Dibromochloromethane	0.4730 0.4633	0.4380	0.4292	0.4472	0.4294	Ave		0.4467			0.1000	4.1		20.5			
1,2-Dibromoethane	0.4206 0.4382	0.3930	0.3996	0.4082	0.3889	Ave		0.4081			0.0100	4.6					
2-Hexanone	0.1989 0.3298	0.2052	0.2256	0.2553	0.2507	Ave		0.2442			0.0100	19.6					
Chlorobenzene	1.2322 1.0973	1.0803	1.0484	1.0518	1.0056	Ave		1.0859			0.5000	7.2		20.5			
Ethylbenzene	0.5267 0.5627	0.5065	0.5139	0.5357	0.5135	Ave		0.5265			0.1000	3.9		20.5			
m-Xylene & p-Xylene	0.5282 0.6681	0.6112	0.6264	0.6507	0.6220	Ave		0.6178			0.3000	7.9		20.5			

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1 Analy Batch No.: 47465

SDG No.:

Instrument ID: MSY GC Column: RTX-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/26/2011 15:38 Calibration End Date: 01/26/2011 18:28 Calibration ID: 9228

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
o-Xylene	0.4788 0.6515	0.5254	0.5554	0.6063	0.5938	Ave		0.5686			0.3000	10.8		20.5			
Bromoform	0.3338 0.3530	0.3171	0.3200	0.3356	0.3288	Ave		0.3314			0.1000	3.9		20.5			
Styrene	0.7189 1.1113	0.9284	0.9945	1.0552	1.0289	Ave		0.9729			0.3000	14.2		20.5			
Isopropylbenzene	1.0191 1.4974	1.2401	1.3058	1.4332	1.3830	Ave		1.3131			0.0100	13.0					
1,1,2,2-Tetrachloroethane	0.5159 0.5132	0.4751	0.4795	0.4840	0.4632	Ave		0.4885			0.3000	4.4		20.5			
1,2,3-Trichloropropane	0.1636 0.1405	0.1359	0.1364	0.1364	0.1300	Ave		0.1405				8.4					
1,3-Dichlorobenzene	0.8437 0.8781	0.8390	0.8317	0.8444	0.8099	Ave		0.8411			0.6000	2.6		20.5			
1,4-Dichlorobenzene	0.7786 0.9084	0.8427	0.8450	0.8799	0.8459	Ave		0.8501			0.5000	5.1		20.5			
1,2-Dichlorobenzene	0.8351 0.8756	0.8040	0.8214	0.8345	0.8083	Ave		0.8298			0.4000	3.1		20.5			
1,2-Dibromo-3-Chloropropane	0.1313 0.1370	0.1142	0.1210	0.1245	0.1208	Ave		0.1248			0.0100	6.6					
1,2,4-Trichlorobenzene	0.5391 0.6297	0.5125	0.5325	0.5647	0.5558	Ave		0.5557			0.2000	7.3		20.5			
1,2-Dichloroethane-d4 (Surr)	3.1814 2.6998	2.6664	2.7109	2.6353	2.5128	Ave		2.7344			0.0100	8.4					
Toluene-d8 (Surr)	1.5335 1.5177	1.3734	1.4437	1.4231	1.3658	Ave		1.4428			0.0100	4.9					
4-Bromofluorobenzene	0.5516 0.5659	0.4992	0.5158	0.5357	0.5220	Ave		0.5317			0.2000	4.6		20.5			

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1

SDG No.:

Lab Sample ID: CCVIS 220-51189/1 Calibration Date: 05/23/2011 10:35

Instrument ID: MSY Calib Start Date: 01/26/2011 15:38

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 01/26/2011 18:28

Lab File ID: Y5127.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Monochloropentafluoroethane	Ave	0.1910	0.2190		57.3	50.0	14.6	
Dichlorodifluoromethane	Ave	2.027	1.895	0.0100	46.8	50.0	-6.5	
1,1-Difluoroethane	Ave	0.5399	0.8862		82.1	50.0	64.1	NA
Chlorodifluoromethane	Ave	3.577	3.963		55.4	50.0	10.8	
Chloromethane	Ave	1.376	1.320	0.0100	48.0	50.0	-4.0	
Vinyl chloride	Ave	1.423	1.576	0.1000	55.3	50.0	10.7	25.0
Bromomethane	Ave	1.333	1.299	0.1000	48.7	50.0	-2.6	25.0
Chloroethane	Ave	0.7191	0.8937	0.0100	62.1	50.0	24.3	
Trichlorofluoromethane	Ave	3.777	3.721	0.0100	49.3	50.0	-1.5	
1,1-Dichloro-1-fluoroethane	Ave	3.910	3.709		47.4	50.0	-5.1	
1,1-Dichloroethene	Ave	1.724	1.683	0.1000	48.8	50.0	-2.4	25.0
Carbon disulfide	Ave	5.520	4.710	0.0100	42.7	50.0	-14.7	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.042	2.161	0.0100	52.9	50.0	5.8	
1,1,1-Trifluoro-2,2-dichloroethane	Ave	2.638	2.756		52.2	50.0	4.5	
Iodomethane	Ave	2.647	3.123		59.0	50.0	18.0	
Acrolein	Ave	0.4836	0.1059		54.8	250	-78.1	NA
Methylene Chloride	Ave	2.384	2.074	0.0100	43.5	50.0	-13.0	
Acetone	Ave	1.119	1.233	0.0100	55.1	50.0	10.2	
trans-1,2-Dichloroethene	Ave	1.793	1.871	0.0100	52.2	50.0	4.4	
Methyl acetate	Ave	4.420	2.589	0.0100	29.3	50.0	-41.4	
Methyl tert-butyl ether	Ave	5.375	5.429	0.0100	50.5	50.0	1.0	
2-Methyl-2-propanol	Ave	0.2010	0.1850		230	250	-8.0	
1,1-Dichloroethane	Ave	3.150	3.376	0.2000	53.6	50.0	7.2	25.0
Acrylonitrile	Ave	0.6181	0.7947		129	100	28.6	NA
Vinyl acetate	Ave	1.430	0.5800		20.3	50.0	-59.4	NA
cis-1,2-Dichloroethene	Ave	1.801	1.953	0.0100	54.2	50.0	8.4	
Cyclohexane	Ave	0.3645	0.4740	0.0100	65.0	50.0	30.1	
Chloroform	Ave	3.691	3.887	0.2000	52.7	50.0	5.3	25.0
Carbon tetrachloride	Ave	0.6086	0.5661	0.1000	46.5	50.0	-7.0	25.0
Tetrahydrofuran	Ave	0.5849	0.8967		153	100	53.3	NA
1,1,1-Trichloroethane	Ave	0.6697	0.6285	0.1000	46.9	50.0	-6.1	25.0
Methyl Ethyl Ketone	Ave	0.9291	1.232	0.0100	66.3	50.0	32.6	
Benzene	Ave	1.139	1.279	0.5000	56.1	50.0	12.2	25.0
1,2-Dichloroethane	Ave	3.015	3.168	0.1000	52.5	50.0	5.0	25.0
Methylcyclohexane	Ave	0.3650	0.4741	0.0100	64.9	50.0	29.9	
Trichloroethene	Ave	0.3746	0.4050	0.3000	54.1	50.0	8.1	25.0
Dibromomethane	Ave	1.391	1.485		53.4	50.0	6.8	
1,2-Dichloropropane	Ave	0.2913	0.3265	0.0100	56.0	50.0	12.1	
Bromodichloromethane	Ave	0.4860	0.4965	0.2000	51.1	50.0	2.2	25.0
Methyl methacrylate	Ave	0.2035	0.2430		119	100	19.4	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1

SDG No.:

Lab Sample ID: CCVIS 220-51189/1 Calibration Date: 05/23/2011 10:35

Instrument ID: MSY Calib Start Date: 01/26/2011 15:38

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 01/26/2011 18:28

Lab File ID: Y5127.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.0249	0.0165		330	499	-33.8	
2-Chloroethyl vinyl ether	Ave	0.1555	0.1609		51.7	49.9	3.5	
cis-1,3-Dichloropropene	Ave	0.4972	0.5689	0.2000	57.2	50.0	14.4	25.0
Toluene	Ave	1.565	1.705	0.4000	54.5	50.0	8.9	25.0
Tetrachloroethene	Ave	0.3616	0.3506	0.2000	48.5	50.0	-3.0	25.0
methyl isobutyl ketone	Ave	0.3357	0.3720	0.0100	55.4	50.0	10.8	
trans-1,3-Dichloropropene	Ave	0.5023	0.5644	0.1000	56.2	50.0	12.4	25.0
1,1,2-Trichloroethane	Ave	0.3010	0.3399	0.1000	56.5	50.0	12.9	25.0
Ethyl methacrylate	Ave	0.4008	0.4458		55.6	50.0	11.2	
Dibromochloromethane	Ave	0.4467	0.4625	0.1000	51.8	50.0	3.5	25.0
1,2-Dibromoethane	Ave	0.4081	0.4180	0.0100	51.2	50.0	2.4	
2-Hexanone	Ave	0.2442	0.2820	0.0100	57.7	50.0	15.5	
Chlorobenzene	Ave	1.086	1.129	0.5000	52.0	50.0	4.0	25.0
Ethylbenzene	Ave	0.5265	0.5804	0.1000	55.1	50.0	10.2	25.0
m-Xylene & p-Xylene	Ave	0.6178	0.7398	0.3000	120	100	19.7	25.0
o-Xylene	Ave	0.5686	0.6548	0.3000	57.6	50.0	15.2	25.0
Bromoform	Ave	0.3314	0.3476	0.1000	52.5	50.0	4.9	25.0
Styrene	Ave	0.9729	1.192	0.3000	61.3	50.0	22.6	25.0
Isopropylbenzene	Ave	1.313	1.551	0.0100	59.1	50.0	18.1	
1,1,2,2-Tetrachloroethane	Ave	0.4885	0.5594	0.3000	57.3	50.0	14.5	25.0
1,2,3-Trichloropropane	Ave	0.1405	0.1469		52.3	50.0	4.5	
1,3-Dichlorobenzene	Ave	0.8411	0.9056	0.6000	53.8	50.0	7.7	25.0
1,4-Dichlorobenzene	Ave	0.8501	0.997	0.5000	58.6	50.0	17.3	25.0
1,2-Dichlorobenzene	Ave	0.8298	0.9582	0.4000	57.7	50.0	15.5	25.0
1,2-Dibromo-3-Chloropropane	Ave	0.1248	0.1274	0.0100	51.0	50.0	2.1	
1,2,4-Trichlorobenzene	Ave	0.5557	0.6061	0.2000	54.5	50.0	9.1	25.0
1,2-Dichloroethane-d4 (Surr)	Ave	2.734	2.319	0.0100	42.4	50.0	-15.2	
Toluene-d8 (Surr)	Ave	1.443	1.240	0.0100	43.0	50.0	-14.1	
4-Bromofluorobenzene	Ave	0.5317	0.4689	0.2000	44.1	50.0	-11.8	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1

SDG No.:

Lab Sample ID: CCVIS 220-51186/1 Calibration Date: 05/24/2011 09:51

Instrument ID: MSY Calib Start Date: 01/26/2011 15:38

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 01/26/2011 18:28

Lab File ID: Y5149.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Monochloropentafluoroethane	Ave	0.1910	0.1982		51.9	50.0	3.7	
Dichlorodifluoromethane	Ave	2.027	1.919	0.0100	47.4	50.0	-5.3	
1,1-Difluoroethane	Ave	0.5399	0.8752		81.1	50.0	62.1	NA
Chlorodifluoromethane	Ave	3.577	3.995		55.8	50.0	11.7	
Chloromethane	Ave	1.376	1.282	0.0100	46.6	50.0	-6.8	
Vinyl chloride	Ave	1.423	1.527	0.1000	53.7	50.0	7.3	25.0
Bromomethane	Ave	1.333	0.8393	0.1000	31.5	50.0	-37.1	25.0
Chloroethane	Ave	0.7191	0.6845	0.0100	47.6	50.0	-4.8	
Trichlorofluoromethane	Ave	3.777	3.789	0.0100	50.2	50.0	0.3	
1,1-Dichloro-1-fluoroethane	Ave	3.910	3.787		48.4	50.0	-3.2	
1,1-Dichloroethene	Ave	1.724	1.684	0.1000	48.9	50.0	-2.3	25.0
Carbon disulfide	Ave	5.520	4.845	0.0100	43.9	50.0	-12.2	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.042	2.180	0.0100	53.4	50.0	6.8	
1,1,1-Trifluoro-2,2-dichloroethane	Ave	2.638	2.751		52.1	50.0	4.3	
Iodomethane	Ave	2.647	1.433		27.1	50.0	-45.8	NA
Acrolein	Ave	0.4836	0.1829		94.7	250	-62.2	NA
Methylene Chloride	Ave	2.384	2.110	0.0100	44.2	50.0	-11.5	
Acetone	Ave	1.119	1.192	0.0100	53.3	50.0	6.6	
trans-1,2-Dichloroethene	Ave	1.793	1.881	0.0100	52.5	50.0	4.9	
Methyl acetate	Ave	4.420	2.490	0.0100	28.2	50.0	-43.7	
Methyl tert-butyl ether	Ave	5.375	5.446	0.0100	50.7	50.0	1.3	
2-Methyl-2-propanol	Ave	0.2010	0.1726		215	250	-14.1	
1,1-Dichloroethane	Ave	3.150	3.406	0.2000	54.1	50.0	8.1	25.0
Acrylonitrile	Ave	0.6181	0.7636		124	100	23.5	
Vinyl acetate	Ave	1.430	0.5775		20.2	50.0	-59.6	NA
cis-1,2-Dichloroethene	Ave	1.801	1.949	0.0100	54.1	50.0	8.2	
Cyclohexane	Ave	0.3645	0.4675	0.0100	64.1	50.0	28.3	
Chloroform	Ave	3.691	3.909	0.2000	53.0	50.0	5.9	25.0
Carbon tetrachloride	Ave	0.6086	0.5748	0.1000	47.2	50.0	-5.6	25.0
Tetrahydrofuran	Ave	0.5849	0.8468		145	100	44.8	NA
1,1,1-Trichloroethane	Ave	0.6697	0.6352	0.1000	47.4	50.0	-5.1	25.0
Methyl Ethyl Ketone	Ave	0.9291	1.155	0.0100	62.1	50.0	24.3	
Benzene	Ave	1.139	1.263	0.5000	55.4	50.0	10.8	25.0
1,2-Dichloroethane	Ave	3.015	3.169	0.1000	52.5	50.0	5.1	25.0
Methylcyclohexane	Ave	0.3650	0.4709	0.0100	64.5	50.0	29.0	
Trichloroethene	Ave	0.3746	0.4004	0.3000	53.4	50.0	6.9	25.0
Dibromomethane	Ave	1.391	1.489		53.5	50.0	7.1	
1,2-Dichloropropane	Ave	0.2913	0.3218	0.0100	55.2	50.0	10.4	
Bromodichloromethane	Ave	0.4860	0.5000	0.2000	51.4	50.0	2.9	25.0
1,4-Dioxane	Ave	0.0249	0.0142		285	499	-42.8	NA

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1

SDG No.:

Lab Sample ID: CCVIS 220-51186/1 Calibration Date: 05/24/2011 09:51

Instrument ID: MSY Calib Start Date: 01/26/2011 15:38

GC Column: RTX-VMS ID: 0.18(mm) Calib End Date: 01/26/2011 18:28

Lab File ID: Y5149.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl methacrylate	Ave	0.2035	0.2351		116	100	15.5	
2-Chloroethyl vinyl ether	Ave	0.1555	0.1355		43.5	49.9	-12.9	
cis-1,3-Dichloropropene	Ave	0.4972	0.5513	0.2000	55.4	50.0	10.9	25.0
Toluene	Ave	1.565	1.676	0.4000	53.5	50.0	7.1	25.0
Tetrachloroethene	Ave	0.3616	0.3439	0.2000	47.6	50.0	-4.9	25.0
methyl isobutyl ketone	Ave	0.3357	0.3517	0.0100	52.4	50.0	4.7	
trans-1,3-Dichloropropene	Ave	0.5023	0.5570	0.1000	55.4	50.0	10.9	25.0
1,1,2-Trichloroethane	Ave	0.3010	0.3366	0.1000	55.9	50.0	11.8	25.0
Ethyl methacrylate	Ave	0.4008	0.4297		53.6	50.0	7.2	
Dibromochloromethane	Ave	0.4467	0.4625	0.1000	51.8	50.0	3.5	25.0
1,2-Dibromoethane	Ave	0.4081	0.4091	0.0100	50.1	50.0	0.2	
2-Hexanone	Ave	0.2442	0.2635	0.0100	53.9	50.0	7.9	
Chlorobenzene	Ave	1.086	1.117	0.5000	51.4	50.0	2.9	25.0
Ethylbenzene	Ave	0.5265	0.5788	0.1000	55.0	50.0	9.9	25.0
m-Xylene & p-Xylene	Ave	0.6178	0.7349	0.3000	119	100	19.0	25.0
o-Xylene	Ave	0.5686	0.6454	0.3000	56.8	50.0	13.5	25.0
Bromoform	Ave	0.3314	0.3462	0.1000	52.2	50.0	4.5	25.0
Styrene	Ave	0.9729	1.172	0.3000	60.2	50.0	20.4	25.0
Isopropylbenzene	Ave	1.313	1.522	0.0100	58.0	50.0	15.9	
1,1,2,2-Tetrachloroethane	Ave	0.4885	0.5482	0.3000	56.1	50.0	12.2	25.0
1,2,3-Trichloropropane	Ave	0.1405	0.1431		50.9	50.0	1.9	
1,3-Dichlorobenzene	Ave	0.8411	0.8987	0.6000	53.4	50.0	6.8	25.0
1,4-Dichlorobenzene	Ave	0.8501	0.9899	0.5000	58.2	50.0	16.4	25.0
1,2-Dichlorobenzene	Ave	0.8298	0.9466	0.4000	57.0	50.0	14.1	25.0
1,2-Dibromo-3-Chloropropane	Ave	0.1248	0.1212	0.0100	48.6	50.0	-2.8	
1,2,4-Trichlorobenzene	Ave	0.5557	0.5918	0.2000	53.2	50.0	6.5	25.0
1,2-Dichloroethane-d4 (Surr)	Ave	2.734	2.521	0.0100	46.1	50.0	-7.8	
Toluene-d8 (Surr)	Ave	1.443	1.327	0.0100	46.0	50.0	-8.1	
4-Bromofluorobenzene	Ave	0.5317	0.5017	0.2000	47.2	50.0	-5.6	25.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 220-51186/3

Matrix: Water Lab File ID: Y5152.D

Analysis Method: OLM04.2/VOL Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2011 11:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.10
74-87-3	Chloromethane	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.10
74-83-9	Bromomethane	1.0	U	1.0	0.10
75-00-3	Chloroethane	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.10
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.10
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.10
75-15-0	Carbon disulfide	0.115	J	1.0	0.10
75-09-2	Methylene Chloride	2.58		1.0	0.10
67-64-1	Acetone	0.879	J	1.0	0.10
79-20-9	Methyl acetate	1.0	U	1.0	0.10
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.10
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.10
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.10
78-93-3	Methyl Ethyl Ketone	1.0	U	1.0	0.10
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.10
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.10
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.10
71-43-2	Benzene	1.0	U	1.0	0.10
110-82-7	Cyclohexane	1.0	U	1.0	0.10
108-87-2	Methylcyclohexane	1.0	U	1.0	0.10
79-01-6	Trichloroethene	1.0	U	1.0	0.10
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.10
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.10
124-48-1	Dibromochloromethane	1.0	U	1.0	0.10
75-25-2	Bromoform	1.0	U	1.0	0.10
108-88-3	Toluene	1.0	U	1.0	0.10
108-10-1	methyl isobutyl ketone	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.10
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 220-51186/3

Matrix: Water Lab File ID: Y5152.D

Analysis Method: OLM04.2/VOL Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2011 11:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	1.0	U	1.0	0.10
108-90-7	Chlorobenzene	1.0	U	1.0	0.10
100-41-4	Ethylbenzene	1.0	U	1.0	0.10
100-42-5	Styrene	1.0	U	1.0	0.10
98-82-8	Isopropylbenzene	1.0	U	1.0	0.10
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.10
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.10
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.10
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.10
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.10
1330-20-7	Xylenes, Total	3.0	U	3.0	0.10
67-66-3	Chloroform	1.0	U	1.0	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		76-114
2037-26-5	Toluene-d8 (Surr)	103		88-110
460-00-4	4-Bromofluorobenzene	88		86-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 220-51189/3

Matrix: Water Lab File ID: Y5131.D

Analysis Method: OLM04.2/VOL Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/23/2011 14:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51189 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.10
74-87-3	Chloromethane	1.0	U	1.0	0.10
75-01-4	Vinyl chloride	1.0	U	1.0	0.10
74-83-9	Bromomethane	1.0	U	1.0	0.10
75-00-3	Chloroethane	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.10
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.10
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.10
75-15-0	Carbon disulfide	1.0	U	1.0	0.10
75-09-2	Methylene Chloride	2.80		1.0	0.10
67-64-1	Acetone	0.357	J	1.0	0.10
79-20-9	Methyl acetate	1.0	U	1.0	0.10
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.10
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.10
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.10
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.10
78-93-3	Methyl Ethyl Ketone	1.0	U	1.0	0.10
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.10
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.10
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.10
71-43-2	Benzene	1.0	U	1.0	0.10
110-82-7	Cyclohexane	1.0	U	1.0	0.10
108-87-2	Methylcyclohexane	1.0	U	1.0	0.10
79-01-6	Trichloroethene	1.0	U	1.0	0.10
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.10
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.10
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.10
124-48-1	Dibromochloromethane	1.0	U	1.0	0.10
75-25-2	Bromoform	1.0	U	1.0	0.10
108-88-3	Toluene	1.0	U	1.0	0.10
108-10-1	methyl isobutyl ketone	1.0	U	1.0	0.10
127-18-4	Tetrachloroethene	1.0	U	1.0	0.10
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut Job No.: 220-15492-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 220-51189/3

Matrix: Water Lab File ID: Y5131.D

Analysis Method: OLM04.2/VOL Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/23/2011 14:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51189 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	1.0	U	1.0	0.10
108-90-7	Chlorobenzene	1.0	U	1.0	0.10
100-41-4	Ethylbenzene	1.0	U	1.0	0.10
100-42-5	Styrene	1.0	U	1.0	0.10
98-82-8	Isopropylbenzene	1.0	U	1.0	0.10
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.10
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.10
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.10
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.10
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.10
1330-20-7	Xylenes, Total	3.0	U	3.0	0.10
67-66-3	Chloroform	1.0	U	1.0	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		76-114
2037-26-5	Toluene-d8 (Surr)	110		88-110
460-00-4	4-Bromofluorobenzene	92		86-115

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-13693-7TB
Client Matrix: Water

Date Sampled: 12/07/2011 0000
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6958.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1253			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1253				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

February 6, 2012

Mr. Wayne N. Randall
C&S Companies
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212

Re: DUSR and Data Validation Report
Midler Ave. Project
December 2011 Ground Water Sampling Event

Dear Mr. Randall:

The data usability summary report (DUSR) and data validation QA/QC review for the December 2011 ground water sampling event are enclosed with this letter. The data were acceptable for TestAmerica Buffalo job number 480-13693-1 with minor issues outlined in the QA/QC review. There were no data that were flagged as unusable (R) in this data pack.

A list of data validation acronyms and qualifiers is attached to assist you in interpreting the data validation reviews. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist C&S Companies.

Sincerely,
Alpha Geoscience

Donald Anné

Donald Anné
Senior Chemist

DCA:dca
enclosures

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Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.

R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.

N = Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.

J = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

Data Usability Summary Report for
TestAmerica Buffalo, Job No. 480-13693-1

6 Ground Water Samples and 1 Trip Blank
Collected December 7, 2011

Prepared by: Donald Anné
February 6, 2012

The data packages contain the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data packs contained the results for 6 ground water samples and 1 trip blank analyzed for volatiles.

The overall performances of the analyses are acceptable. TestAmerica Buffalo did fulfill the requirements of the analytical method.

The data are acceptable with some issues that are identified in the accompanying data validation review. The following data were flagged:

- The volatile result for vinyl chloride and cis-1,2-dichloroethene in sample MW-13D and cis-1,2-dichloroethene in sample MW-10D were quantitated using data that were extrapolated beyond the highest calibration standard and flagged "E" by the laboratory. The results for vinyl chloride and cis-1,2-dichloroethene marked "E" in the samples were qualified as estimated (J).

All data are considered usable, with estimated (J) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

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ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of OLM04.2 Volatiles Data for TestAmerica Buffalo, Job No. 480-13693-1

6 Ground Water Samples and 1 Trip Blank Collected December 7, 2011

Prepared by: Donald Anné
February 6, 2012

Holding Times: Samples were analyzed within NYSDEC ASP holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The compounds with ASP criteria for minimum RRFs and maximum %RSDs met those requirements.

The average RRFs for target compounds were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The compounds with ASP criteria for minimum RRFs and maximum %Ds met those requirements.

The RRF50s for target compounds were above the allowable minimum (0.010) and the %Ds were below the allowable maximum (25%), as required.

Blanks: The analyses of method and trip blanks reported target compounds as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for environmental samples.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for spiked compounds were below the allowable maximums and the percent recoveries were within QC limits for MS/MSD sample MW-16D.

Laboratory Control Sample: The percent recoveries for spiked compounds were within QC limits for aqueous sample LCS 480-44603/3.

679 Plank Road • Clifton Park, New York 12065 • (518) 348-6995 • FAX (518) 348-6966
www.alphageoscience.com

Compound ID: Checked compounds were within GC/MS quantitation and qualitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in SW846.

There are results for vinyl chloride and cis-1,2-dichloroethene in sample MW-13D, and cis-1,2-dichloroethene in samples MW-10D that were quantitated by extrapolating data above the highest calibration standard and marked 'E' by the laboratory. The samples were diluted by the laboratory and re-analyzed; therefore, the results that are flagged as 'E' in the undiluted samples should be considered estimated (J). The use of the diluted results for vinyl chloride and cis-1,2-dichloroethene is recommended. It is recommended that the undiluted results for samples be used for all other compounds.

LETTER OF TRANSMITTAL

ALPHA GEOSCIENCE
679 Plank Road
Clifton Park, NY 12065
(518) 348 -6995 Phone
(518) 348-6966 FAX

TO:
Mr Wayne N. Randall
C&S Companies
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212

FROM:
Don Anne'

DATE:
02/06/12

SUBJECT:
Data Validation
Middler Ave.
December 2011 Ground Water Sampling Event

WE ARE TRANSMITTING THE FOLLOWING ITEMS:

_____ Photographs
_____ Maps/Plans
_____ Report(s)
_____ Letter(s)
_____ Disk(s)
__X__ Other: Data Packs

Originals	Copies	Description of Materials
1		TestAmerica Buffalo Data Pack, SDG number 480-13693-1

These Materials are Transmitted:

_____ For your use
_____ For your approval
_____ For your review and comment
_____ Approved as submitted
_____ Approved as noted
__X__ Returned after loaned to us
_____ Returned for revision

Please:
_____ Return original to us
_____ Submit after revision
_____ Retain for your files
_____ Other

REMARKS:
Returned upon completion of data validation

ADDITIONAL COPIES TO:

SIGNATURE:
Donald Anne'

SAMPLE SUMMARY

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-13693-1	MW 16 D	Water	12/07/2011 0900	12/08/2011 0850
480-13693-1MS	MW 16 D	Water	12/07/2011 0900	12/08/2011 0850
480-13693-1MSD	MW 16 D	Water	12/07/2011 0900	12/08/2011 0850
480-13693-2	MW 14 D	Water	12/07/2011 1000	12/08/2011 0850
480-13693-3	MW 13 D	Water	12/07/2011 1100	12/08/2011 0850
480-13693-4	MW 9 D	Water	12/07/2011 1200	12/08/2011 0850
480-13693-5	MW 15 D	Water	12/07/2011 1300	12/08/2011 0850
480-13693-6	MW 10 D	Water	12/07/2011 1400	12/08/2011 0850
480-13693-7TB	TRIP BLANK	Water	12/07/2011 0000	12/08/2011 0850

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 16 D**

Lab Sample ID: 480-13693-1
Client Matrix: Water

Date Sampled: 12/07/2011 0900
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6959.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1318			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1318				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		11	25
1,1,2,2-Tetrachloroethane	ND		7.5	25
1,1,2-Trichloroethane	ND		9.5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	25
1,1-Dichloroethane	ND		8.5	25
1,1-Dichloroethene	ND		13	25
1,2,4-Trichlorobenzene	ND		2.9	25
1,2-Dibromo-3-Chloropropane	ND		25	25
1,2-Dibromoethane	ND		10	25
1,2-Dichlorobenzene	ND		6.0	25
1,2-Dichloroethane	ND		4.2	25
1,2-Dichloropropane	ND		8.5	25
1,3-Dichlorobenzene	ND		6.0	25
1,4-Dichlorobenzene	ND		5.5	25
2-Butanone (MEK)	ND		7.5	25
2-Hexanone	ND		9.0	25
4-Methyl-2-pentanone (MIBK)	ND		8.5	25
Acetone	ND		9.5	25
Benzene	ND		8.0	25
Dichlorobromomethane	ND		7.5	25
Bromoform	ND		25	25
Bromomethane	ND		22	25
Carbon disulfide	ND		11	25
Carbon tetrachloride	ND		10	25
Chlorobenzene	ND		8.0	25
Chlorodibromomethane	ND		8.5	25
Chloroethane	ND		13	25
Chloroform	ND		9.5	25
Chloromethane	ND		12	25
cis-1,2-Dichloroethene	ND		9.0	25
cis-1,3-Dichloropropene	ND		7.0	25
Cyclohexane	ND		2.9	25
Dichlorodifluoromethane	ND		11	25
Ethylbenzene	ND		8.0	25
Isopropylbenzene	ND		1.9	25
Methyl acetate	ND		3.3	25
Methyl tert-butyl ether	ND		2.3	25
Methylcyclohexane	ND		3.0	25
Methylene Chloride	ND		6.5	25
Styrene	ND		8.5	25
Tetrachloroethene	ND		11	25
Toluene	ND		8.0	25
trans-1,2-Dichloroethene	ND		9.5	25
trans-1,3-Dichloropropene	ND		8.0	25
Trichloroethene	ND		9.5	25
Trichlorofluoromethane	ND		6.5	25

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 16 D**

Lab Sample ID: 480-13693-1
Client Matrix: Water

Date Sampled: 12/07/2011 0900
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6959.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1318			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1318				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		12	25
Xylenes, Total	ND		4.1	25
1,2-Dichloroethene, Total	ND		4.1	50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		76 - 114
Toluene-d8 (Surr)	100		88 - 110
4-Bromofluorobenzene (Surr)	99		86 - 115

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: MW 14 D

Lab Sample ID: 480-13693-2
Client Matrix: Water

Date Sampled: 12/07/2011 1000
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6962.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1448			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1448				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		42	100
1,1,2,2-Tetrachloroethane	ND		30	100
1,1,2-Trichloroethane	ND		38	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		30	100
1,1-Dichloroethane	ND		34	100
1,1-Dichloroethene	ND		50	100
1,2,4-Trichlorobenzene	ND		11	100
1,2-Dibromo-3-Chloropropane	ND		100	100
1,2-Dibromoethane	ND		40	100
1,2-Dichlorobenzene	ND		24	100
1,2-Dichloroethane	ND		17	100
1,2-Dichloropropane	ND		34	100
1,3-Dichlorobenzene	ND		24	100
1,4-Dichlorobenzene	ND		22	100
2-Butanone (MEK)	ND		30	100
2-Hexanone	ND		36	100
4-Methyl-2-pentanone (MIBK)	ND		34	100
Acetone	ND		38	100
Benzene	ND		32	100
Dichlorobromomethane	ND		30	100
Bromoform	ND		100	100
Bromomethane	ND		86	100
Carbon disulfide	ND		42	100
Carbon tetrachloride	ND		40	100
Chlorobenzene	ND		32	100
Chlorodibromomethane	ND		34	100
Chloroethane	ND		50	100
Chloroform	ND		38	100
Chloromethane	ND		46	100
cis-1,2-Dichloroethene	ND		36	100
cis-1,3-Dichloropropene	ND		28	100
Cyclohexane	ND		12	100
Dichlorodifluoromethane	ND		42	100
Ethylbenzene	ND		32	100
Isopropylbenzene	ND		7.5	100
Methyl acetate	ND		13	100
Methyl tert-butyl ether	ND		9.1	100
Methylcyclohexane	ND		12	100
Methylene Chloride	ND		26	100
Styrene	ND		34	100
Tetrachloroethene	ND		42	100
Toluene	ND		32	100
trans-1,2-Dichloroethene	ND		38	100
trans-1,3-Dichloropropene	ND		32	100
Trichloroethene	ND		38	100
Trichlorofluoromethane	ND		26	100

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 14 D**

Lab Sample ID: 480-13693-2
Client Matrix: Water

Date Sampled: 12/07/2011 1000
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6962.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1448			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1448				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		46	100
Xylenes, Total	ND		16	100
1,2-Dichloroethene, Total	ND		16	200

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		76 - 114
Toluene-d8 (Surr)	99		88 - 110
4-Bromofluorobenzene (Surr)	101		86 - 115

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: MW 13 D

Lab Sample ID: 480-13693-3
Client Matrix: Water

Date Sampled: 12/07/2011 1100
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6963.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1513			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1513				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		4.2	10
1,1,2,2-Tetrachloroethane	ND		3.0	10
1,1,2-Trichloroethane	ND		3.8	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0	10
1,1-Dichloroethane	ND		3.4	10
1,1-Dichloroethene	ND		5.0	10
1,2,4-Trichlorobenzene	ND		1.1	10
1,2-Dibromo-3-Chloropropane	ND		10	10
1,2-Dibromoethane	ND		4.0	10
1,2-Dichlorobenzene	ND		2.4	10
1,2-Dichloroethane	ND		1.7	10
1,2-Dichloropropane	ND		3.4	10
1,3-Dichlorobenzene	ND		2.4	10
1,4-Dichlorobenzene	ND		2.2	10
2-Butanone (MEK)	ND		3.0	10
2-Hexanone	ND		3.6	10
4-Methyl-2-pentanone (MIBK)	ND		3.4	10
Acetone	ND		3.8	10
Benzene	3.6	J	3.2	10
Dichlorobromomethane	ND		3.0	10
Bromoform	ND		10	10
Bromomethane	ND		8.6	10
Carbon disulfide	ND		4.2	10
Carbon tetrachloride	ND		4.0	10
Chlorobenzene	ND		3.2	10
Chlorodibromomethane	ND		3.4	10
Chloroethane	ND		5.0	10
Chloroform	ND		3.8	10
Chloromethane	ND		4.6	10
cis-1,2-Dichloroethene	750	E J	3.6	10
cis-1,3-Dichloropropene	ND		2.8	10
Cyclohexane	ND		1.2	10
Dichlorodifluoromethane	ND		4.2	10
Ethylbenzene	ND		3.2	10
Isopropylbenzene	ND		0.75	10
Methyl acetate	ND		1.3	10
Methyl tert-butyl ether	ND		0.91	10
Methylcyclohexane	1.5	J	1.2	10
Methylene Chloride	ND		2.6	10
Styrene	ND		3.4	10
Tetrachloroethene	ND		4.2	10
Toluene	ND		3.2	10
trans-1,2-Dichloroethene	17		3.8	10
trans-1,3-Dichloropropene	ND		3.2	10
Trichloroethene	ND		3.8	10
Trichlorofluoromethane	ND		2.6	10

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 13 D**

Lab Sample ID: 480-13693-3
Client Matrix: Water

Date Sampled: 12/07/2011 1100
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6963.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1513			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1513				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1200	E J	4.6	10
Xylenes, Total	2.0	J	1.6	10
1,2-Dichloroethene, Total	770		1.6	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		76 - 114
Toluene-d8 (Surr)	100		88 - 110
4-Bromofluorobenzene (Surr)	100		86 - 115

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 13 D**

Lab Sample ID: 480-13693-3
Client Matrix: Water

Date Sampled: 12/07/2011 1100
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6973.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 2003	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 2003				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		21	50
1,1,2,2-Tetrachloroethane	ND		15	50
1,1,2-Trichloroethane	ND		19	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15	50
1,1-Dichloroethane	ND		17	50
1,1-Dichloroethene	ND		25	50
1,2,4-Trichlorobenzene	ND		5.7	50
1,2-Dibromo-3-Chloropropane	ND		50	50
1,2-Dibromoethane	ND		20	50
1,2-Dichlorobenzene	ND		12	50
1,2-Dichloroethane	ND		8.3	50
1,2-Dichloropropane	ND		17	50
1,3-Dichlorobenzene	ND		12	50
1,4-Dichlorobenzene	ND		11	50
2-Butanone (MEK)	ND		15	50
2-Hexanone	ND		18	50
4-Methyl-2-pentanone (MIBK)	ND		17	50
Acetone	ND		19	50
Benzene	ND		16	50
Dichlorobromomethane	ND		15	50
Bromoform	ND		50	50
Bromomethane	ND		43	50
Carbon disulfide	ND		21	50
Carbon tetrachloride	ND		20	50
Chlorobenzene	ND		16	50
Chlorodibromomethane	ND		17	50
Chloroethane	ND		25	50
Chloroform	ND		19	50
Chloromethane	ND		23	50
cis-1,2-Dichloroethene	1100		18	50
cis-1,3-Dichloropropene	ND		14	50
Cyclohexane	ND		5.9	50
Dichlorodifluoromethane	ND		21	50
Ethylbenzene	ND		16	50
Isopropylbenzene	ND		3.7	50
Methyl acetate	ND		6.6	50
Methyl tert-butyl ether	ND		4.6	50
Methylcyclohexane	ND		5.9	50
Methylene Chloride	ND		13	50
Styrene	ND		17	50
Tetrachloroethene	ND		21	50
Toluene	ND		16	50
trans-1,2-Dichloroethene	ND		19	50
trans-1,3-Dichloropropene	ND		16	50
Trichloroethene	ND		19	50
Trichlorofluoromethane	ND		13	50

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 13 D**

Lab Sample ID: 480-13693-3
Client Matrix: Water

Date Sampled: 12/07/2011 1100
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6973.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 2003	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 2003				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1800		23	50
Xylenes, Total	ND		8.2	50
1,2-Dichloroethene, Total	1100		8.2	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		76 - 114
Toluene-d8 (Surr)	100		88 - 110
4-Bromofluorobenzene (Surr)	101		86 - 115

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: MW 9 D

Lab Sample ID: 480-13693-4
Client Matrix: Water

Date Sampled: 12/07/2011 1200
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6968.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1751			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1751				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		4.2	10
1,1,2,2-Tetrachloroethane	ND		3.0	10
1,1,2-Trichloroethane	ND		3.8	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0	10
1,1-Dichloroethane	ND		3.4	10
1,1-Dichloroethene	ND		5.0	10
1,2,4-Trichlorobenzene	ND		1.1	10
1,2-Dibromo-3-Chloropropane	ND		10	10
1,2-Dibromoethane	ND		4.0	10
1,2-Dichlorobenzene	ND		2.4	10
1,2-Dichloroethane	ND		1.7	10
1,2-Dichloropropane	ND		3.4	10
1,3-Dichlorobenzene	ND		2.4	10
1,4-Dichlorobenzene	ND		2.2	10
2-Butanone (MEK)	ND		3.0	10
2-Hexanone	ND		3.6	10
4-Methyl-2-pentanone (MIBK)	ND		3.4	10
Acetone	ND		3.8	10
Benzene	ND		3.2	10
Dichlorobromomethane	ND		3.0	10
Bromoform	ND		10	10
Bromomethane	ND		8.6	10
Carbon disulfide	ND		4.2	10
Carbon tetrachloride	ND		4.0	10
Chlorobenzene	ND		3.2	10
Chlorodibromomethane	ND		3.4	10
Chloroethane	ND		5.0	10
Chloroform	ND		3.8	10
Chloromethane	ND		4.6	10
cis-1,2-Dichloroethene	4.8	J	3.6	10
cis-1,3-Dichloropropene	ND		2.8	10
Cyclohexane	ND		1.2	10
Dichlorodifluoromethane	ND		4.2	10
Ethylbenzene	ND		3.2	10
Isopropylbenzene	ND		0.75	10
Methyl acetate	ND		1.3	10
Methyl tert-butyl ether	ND		0.91	10
Methylcyclohexane	ND		1.2	10
Methylene Chloride	ND		2.6	10
Styrene	ND		3.4	10
Tetrachloroethene	ND		4.2	10
Toluene	ND		3.2	10
trans-1,2-Dichloroethene	ND		3.8	10
trans-1,3-Dichloropropene	ND		3.2	10
Trichloroethene	ND		3.8	10
Trichlorofluoromethane	ND		2.6	10

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 9 D**

Lab Sample ID: 480-13693-4
Client Matrix: Water

Date Sampled: 12/07/2011 1200
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6968.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1751			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1751				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		4.6	10
Xylenes, Total	ND		1.6	10
1,2-Dichloroethene, Total	4.8	J	1.6	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		76 - 114
Toluene-d8 (Surr)	101		88 - 110
4-Bromofluorobenzene (Surr)	101		86 - 115

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: MW 15 D

Lab Sample ID: 480-13693-5
Client Matrix: Water

Date Sampled: 12/07/2011 1300
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6969.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1816			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1816				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		4.2	10
1,1,2,2-Tetrachloroethane	ND		3.0	10
1,1,2-Trichloroethane	ND		3.8	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0	10
1,1-Dichloroethane	ND		3.4	10
1,1-Dichloroethene	ND		5.0	10
1,2,4-Trichlorobenzene	ND		1.1	10
1,2-Dibromo-3-Chloropropane	ND		10	10
1,2-Dibromoethane	ND		4.0	10
1,2-Dichlorobenzene	ND		2.4	10
1,2-Dichloroethane	ND		1.7	10
1,2-Dichloropropane	ND		3.4	10
1,3-Dichlorobenzene	ND		2.4	10
1,4-Dichlorobenzene	ND		2.2	10
2-Butanone (MEK)	ND		3.0	10
2-Hexanone	ND		3.6	10
4-Methyl-2-pentanone (MIBK)	ND		3.4	10
Acetone	ND		3.8	10
Benzene	ND		3.2	10
Dichlorobromomethane	ND		3.0	10
Bromoform	ND		10	10
Bromomethane	ND		8.6	10
Carbon disulfide	ND		4.2	10
Carbon tetrachloride	ND		4.0	10
Chlorobenzene	ND		3.2	10
Chlorodibromomethane	ND		3.4	10
Chloroethane	ND		5.0	10
Chloroform	ND		3.8	10
Chloromethane	ND		4.6	10
cis-1,2-Dichloroethene	6.4	J	3.6	10
cis-1,3-Dichloropropene	ND		2.8	10
Cyclohexane	ND		1.2	10
Dichlorodifluoromethane	ND		4.2	10
Ethylbenzene	ND		3.2	10
Isopropylbenzene	ND		0.75	10
Methyl acetate	ND		1.3	10
Methyl tert-butyl ether	ND		0.91	10
Methylcyclohexane	ND		1.2	10
Methylene Chloride	ND		2.6	10
Styrene	ND		3.4	10
Tetrachloroethene	ND		4.2	10
Toluene	ND		3.2	10
trans-1,2-Dichloroethene	ND		3.8	10
trans-1,3-Dichloropropene	ND		3.2	10
Trichloroethene	ND		3.8	10
Trichlorofluoromethane	ND		2.6	10

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 15 D**

Lab Sample ID: 480-13693-5
Client Matrix: Water

Date Sampled: 12/07/2011 1300
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6969.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1816			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1816				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		4.6	10
Xylenes, Total	ND		1.6	10
1,2-Dichloroethene, Total	6.4	J	1.6	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		76 - 114
Toluene-d8 (Surr)	99		88 - 110
4-Bromofluorobenzene (Surr)	100		86 - 115

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: MW 10 D

Lab Sample ID: 480-13693-6
Client Matrix: Water

Date Sampled: 12/07/2011 1400
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6966.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1627			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1627				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		2.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.5	5.0
1,1,2-Trichloroethane	ND		1.9	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	5.0
1,1-Dichloroethane	ND		1.7	5.0
1,1-Dichloroethene	ND		2.5	5.0
1,2,4-Trichlorobenzene	ND		0.57	5.0
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0
1,2-Dibromoethane	ND		2.0	5.0
1,2-Dichlorobenzene	ND		1.2	5.0
1,2-Dichloroethane	ND		0.83	5.0
1,2-Dichloropropane	ND		1.7	5.0
1,3-Dichlorobenzene	ND		1.2	5.0
1,4-Dichlorobenzene	ND		1.1	5.0
2-Butanone (MEK)	ND		1.5	5.0
2-Hexanone	ND		1.8	5.0
4-Methyl-2-pentanone (MIBK)	ND		1.7	5.0
Acetone	ND		1.9	5.0
Benzene	ND		1.6	5.0
Dichlorobromomethane	ND		1.5	5.0
Bromoform	ND		5.0	5.0
Bromomethane	ND		4.3	5.0
Carbon disulfide	ND		2.1	5.0
Carbon tetrachloride	ND		2.0	5.0
Chlorobenzene	ND		1.6	5.0
Chlorodibromomethane	ND		1.7	5.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		1.9	5.0
Chloromethane	ND		2.3	5.0
cis-1,2-Dichloroethene	340	E J	1.8	5.0
cis-1,3-Dichloropropene	ND		1.4	5.0
Cyclohexane	ND		0.59	5.0
Dichlorodifluoromethane	ND		2.1	5.0
Ethylbenzene	ND		1.6	5.0
Isopropylbenzene	ND		0.37	5.0
Methyl acetate	ND		0.66	5.0
Methyl tert-butyl ether	ND		0.46	5.0
Methylcyclohexane	ND		0.59	5.0
Methylene Chloride	ND		1.3	5.0
Styrene	ND		1.7	5.0
Tetrachloroethene	ND		2.1	5.0
Toluene	ND		1.6	5.0
trans-1,2-Dichloroethene	17		1.9	5.0
trans-1,3-Dichloropropene	ND		1.6	5.0
Trichloroethene	ND		1.9	5.0
Trichlorofluoromethane	ND		1.3	5.0

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 10 D**

Lab Sample ID: 480-13693-6
Client Matrix: Water

Date Sampled: 12/07/2011 1400
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6966.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1627			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1627				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	95		2.3	5.0
Xylenes, Total	ND		0.82	5.0
1,2-Dichloroethene, Total	360		0.82	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		76 - 114
Toluene-d8 (Surr)	99		88 - 110
4-Bromofluorobenzene (Surr)	101		86 - 115

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: MW 10 D

Lab Sample ID: 480-13693-6
Client Matrix: Water

Date Sampled: 12/07/2011 1400
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6972.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1938	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1938				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		8.4	20
1,1,2,2-Tetrachloroethane	ND		6.0	20
1,1,2-Trichloroethane	ND		7.6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.0	20
1,1-Dichloroethane	ND		6.8	20
1,1-Dichloroethene	ND		10	20
1,2,4-Trichlorobenzene	ND		2.3	20
1,2-Dibromo-3-Chloropropane	ND		20	20
1,2-Dibromoethane	ND		8.0	20
1,2-Dichlorobenzene	ND		4.8	20
1,2-Dichloroethane	ND		3.3	20
1,2-Dichloropropane	ND		6.8	20
1,3-Dichlorobenzene	ND		4.8	20
1,4-Dichlorobenzene	ND		4.4	20
2-Butanone (MEK)	ND		6.0	20
2-Hexanone	ND		7.2	20
4-Methyl-2-pentanone (MIBK)	ND		6.8	20
Acetone	ND		7.6	20
Benzene	ND		6.4	20
Dichlorobromomethane	ND		6.0	20
Bromoform	ND		20	20
Bromomethane	ND		17	20
Carbon disulfide	ND		8.4	20
Carbon tetrachloride	ND		8.0	20
Chlorobenzene	ND		6.4	20
Chlorodibromomethane	ND		6.8	20
Chloroethane	ND		10	20
Chloroform	ND		7.6	20
Chloromethane	ND		9.2	20
cis-1,2-Dichloroethene	440		7.2	20
cis-1,3-Dichloropropene	ND		5.6	20
Cyclohexane	ND		2.3	20
Dichlorodifluoromethane	ND		8.4	20
Ethylbenzene	ND		6.4	20
Isopropylbenzene	ND		1.5	20
Methyl acetate	ND		2.7	20
Methyl tert-butyl ether	ND		1.8	20
Methylcyclohexane	ND		2.4	20
Methylene Chloride	ND		5.2	20
Styrene	ND		6.8	20
Tetrachloroethene	ND		8.4	20
Toluene	ND		6.4	20
trans-1,2-Dichloroethene	17	J	7.6	20
trans-1,3-Dichloropropene	ND		6.4	20
Trichloroethene	ND		7.6	20
Trichlorofluoromethane	ND		5.2	20

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **MW 10 D**

Lab Sample ID: 480-13693-6
Client Matrix: Water

Date Sampled: 12/07/2011 1400
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6972.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1938	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1938				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	120		9.2	20
Xylenes, Total	ND		3.3	20
1,2-Dichloroethene, Total	460		3.3	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		76 - 114
Toluene-d8 (Surr)	100		88 - 110
4-Bromofluorobenzene (Surr)	101		86 - 115

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-13693-7TB
Client Matrix: Water

Date Sampled: 12/07/2011 0000
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6958.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1253			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1253				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		2.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.5	5.0
1,1,2-Trichloroethane	ND		1.9	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	5.0
1,1-Dichloroethane	ND		1.7	5.0
1,1-Dichloroethene	ND		2.5	5.0
1,2,4-Trichlorobenzene	ND		0.57	5.0
1,2-Dibromo-3-Chloropropane	ND		5.0	5.0
1,2-Dibromoethane	ND		2.0	5.0
1,2-Dichlorobenzene	ND		1.2	5.0
1,2-Dichloroethane	ND		0.83	5.0
1,2-Dichloropropane	ND		1.7	5.0
1,3-Dichlorobenzene	ND		1.2	5.0
1,4-Dichlorobenzene	ND		1.1	5.0
2-Butanone (MEK)	ND		1.5	5.0
2-Hexanone	ND		1.8	5.0
4-Methyl-2-pentanone (MIBK)	ND		1.7	5.0
Acetone	ND		1.9	5.0
Benzene	ND		1.6	5.0
Dichlorobromomethane	ND		1.5	5.0
Bromoform	ND		5.0	5.0
Bromomethane	ND		4.3	5.0
Carbon disulfide	ND		2.1	5.0
Carbon tetrachloride	ND		2.0	5.0
Chlorobenzene	ND		1.6	5.0
Chlorodibromomethane	ND		1.7	5.0
Chloroethane	ND		2.5	5.0
Chloroform	ND		1.9	5.0
Chloromethane	ND		2.3	5.0
cis-1,2-Dichloroethene	ND		1.8	5.0
cis-1,3-Dichloropropene	ND		1.4	5.0
Cyclohexane	ND		0.59	5.0
Dichlorodifluoromethane	ND		2.1	5.0
Ethylbenzene	ND		1.6	5.0
Isopropylbenzene	ND		0.37	5.0
Methyl acetate	ND		0.66	5.0
Methyl tert-butyl ether	ND		0.46	5.0
Methylcyclohexane	ND		0.59	5.0
Methylene Chloride	ND		1.3	5.0
Styrene	ND		1.7	5.0
Tetrachloroethene	ND		2.1	5.0
Toluene	ND		1.6	5.0
trans-1,2-Dichloroethene	ND		1.9	5.0
trans-1,3-Dichloropropene	ND		1.6	5.0
Trichloroethene	ND		1.9	5.0
Trichlorofluoromethane	ND		1.3	5.0

Client: C&S Engineers, Inc.

Job Number: 480-13693-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-13693-7TB
Client Matrix: Water

Date Sampled: 12/07/2011 0000
Date Received: 12/08/2011 0850

OLM04.2/Vol Volatile Organic Compounds (GC/MS)

Analysis Method:	OLM04.2/Vol	Analysis Batch:	480-44603	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P6958.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2011 1253			Final Weight/Volume:	5 mL
Prep Date:	12/15/2011 1253				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		2.3	5.0
Xylenes, Total	ND		0.82	5.0
1,2-Dichloroethene, Total	ND		0.82	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		76 - 114
Toluene-d8 (Surr)	100		88 - 110
4-Bromofluorobenzene (Surr)	99		86 - 115

APPENDIX B-3

MONITORED NATURAL ATTENTION PARAMETERS SUMMARY THROUGH DECEMBER 2011

Pioneer Midler Avenue LLC
Monitoring Natural Attenuation
Water Quality Parameters

Parameter	Units	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Sample Date		02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	06/07/10	02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	06/07/10	10/26/10	05/12/11	12/07/11
Field Parameters																								
pH		6.62	7.01	7.00	7.06	7.20	7.42	6.66	7.12	7.06	6.92	6.53	6.72	6.86	6.96	7.05	6.99	6.69	6.77	6.87	7.75	7.01	7.3	6.9
Conductivity	S/m	3.25	3.49	3.19	3.40	3.50	5.38	3.15	3.51	3.53	3.77	2.63	2.61	2.11	2.70	2.67	4.29	2.66	3.11	3.38	2.58	2.73	2.29	2.4
Temperature	°F	51.08	55.31	57.81	53.82	49.82	55.96	57.38	53.61	51.64	54.86	47.48	54.16	60.46	52.81	46.27	52.25	57.97	53.96	49.86	54.32	60.93	59.13	54.79
Oxidation/Reduction Potential (ORP)	mV	-325	-268	-273	-249	-286	-245	-192	-318	-300	-272	-356	-325	-352	-338	-349	-327	-377	-380	-350	-346	-343	-374	-318
Dissolved Oxygen	mg/L	0.0	0.0	0.66	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.74	4.56	0.0	0.0	0.0	0.1	0.0	0.0	0.0	5.1
Laboratory Analytical Parameters																								
Dissolved Inorganic Carbon	mg/L	110	69	92	81	77	81	47.7	49.8	88.23	67.3	130	89	110	110	120	110	74	57	116	88	92	76	59
Dissolved Organic Carbon	mg/L	11	3.10	1.60	2.40	1.10	1.50	4.22	2.90	4.00	3.80	8	6.20	1.60	5.60	3.20	3.50	4.49	6.10	8.70	7.4	6.5	<1.0	6.3
Iron (total)	mg/L	0.128	0.094	0.233	0.339	0.32	0.501	0.023	0.176	0.742	0.171	0.123	<0.05	<0.05	0.68	0.06	0.029	21	0.095	<0.05	0.147	0.074	0.207	0.024
Ferric Iron	mg/L	<0.10	<0.10	<0.10	<0.10	-0.036	0.293	<0.10	<0.10	0.408	<0.10	0.12	<0.10	<0.10	0.68	0.00008	NR	<0.10	0.0946	<0.10	0.147	<0.100	<0.5	<0.10
Ferrous Iron	mg/L	0.19	0.12	0.19	0.31	0.36	0.208	<0.10	<0.10	0.334	0.367	<0.10	<0.10	0.19	<0.10	0.062	<.015	<0.10	<0.10	<0.10	<0.10	<0.100	0.18	0.16
Nitrite-Nitrate as Nitrogen	mg/L	NS	NS	<0.060	<0.060	NS	<0.02	NS	NS	NS	NS	NS	NS	<0.060	<0.060	NS	<0.02	NS	NS	NS	NS	NS	NS	NS
Nitrate as Nitriogen	mg/L	NS	NS	NS	NS	<0.1	NS	<0.05	<0.05	<0.05	<0.10	NS	NS	NS	NS	<0.1	NS	<0.05	<0.05	<0.05	0.026	0.032	0.18	<0.050
Sulfate	mg/L	441	435	549	530	630	580	496	589	542	546	368	340	549	391	430	380	425	377	328	320	461	380	408
Sulfide	mg/L	1.60	2.40	1.60	1.20	0.80	0.80	17.20	0.80	2.80	2.00	13.20	12.40	1.60	13.60	22.00	17.20	18.40	14.00	18.40	13.6	29.6	22.4	18
Methane	mg/L	1.80	0.35	0.53	0.27	0.33	0.29	0.50	0.37	0.50	0.55	3.80	2.80	4.10	3.00	3.40	3.20	3.20	2.50	2.90	2.4	3	2.9	2.2
Ethene	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01
Ethane	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01
Dehalococcoides (Dhc) Enumeration	per liter	ND[2]	1×10^7	ND[2]	$7 \times 10^{3(1,2)}$	ND[2,3]	1×10^3	1×10^4	2×10^3	1×10^4	1×10^4	ND[2]	Inconclusive	ND[2]	$9 \times 10^{2(1,3)}$	ND[1,3]	4×10^3	NA	3×10^4	1×10^3	7×10^3	7×10^2	4×10^4	1×103
% Dhc		NA	0.3 - 0.8	NA	.00007 - .0002	NA	NA	.0003 - .0009	0.003 - 0.008	0.0002 - 0.0006	0.002 - 0.006	NA	NA	NA	.00006 - .0002	NA	0.001 - 0.003	NA	0.004 - 0.01	0.0002 - 0.0005	0.0006 - 0.002	0.00002 - 0.00005	0.003 - 0.008	0.0001 - 0.0004
Vinyl Chloride Reductase (vcrA)	per liter	NA	2×10^4	NA	Inconclusive	NA	NA	ND[4]	8×10^3	Inconclusive	1×10^4	NA	Inconclusive	NA	$4 \times 10^{3(1)}$	NA	NA	NA	4×10^4	5×10^3	3×10^4	ND	NA	8×10^5
% vcrA		NA	0.003 - 0.008	NA	NA	NA	NA	NA	0.002 - 0.005	NA	0.002 - 0.006	NA	NA	NA	0.003 - 0.001	NA	ND[2]	NA	0.005 - 0.01	0.0007 - 0.002	0.002 - 0.007	NA	4×10^3 U	0.08 - 0.3

Parameter	Units	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D	MW-13D
Sample Date		02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	06/07/10	10/26/10	05/12/11	12/07/11	10/11/07	02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	06/07/10	10/26/10	05/12/11	12/07/11
Field Parameters																												
pH		6.36	6.93	6.90	7.03	6.96	7.10	6.67	6.85	6.97	7.87	7.11	7.49	6.84	7.23	6.80	7.01	7.18	7.21	7.37	7.03	7.22	6.82	7.19	7.71	7.38	7.34	59.72
Conductivity	S/m	2.07	2.05	2.12	2.20	2.23	3.27	2.16	2.43	2.53	2.42	2.11	1.83	2.06	2.83	2.78	2.42	3.07	2.71	3.09	4.4	3.12	2.61	2.97	2.58	2.65	2.35	2.33
Temperature	°F	47.12	54.75	59.14	50.58	48.02	53.55	58.71	49.12	49.57	55.4	62	63.86	54	85.6	64.58	70.99	72.14	61.16	55.71	61.48	64.94	59.68	53.91	59.54	69.91	62.6	59.72
Oxidation/Reduction Potential (ORP)	mV	-297	-338	-342	-329	-341	-309	-346	-374	-349	-350	-313	-347	-321	-324	-400	-334	-369	-350	-408	-377	-403	-409	-371	-347	-364	-374	-334
Dissolved Oxygen	mg/L	0.0	0.0	0.69	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	1.5	5.6	0.47	0.0	0.0	0.0	0.0
Laboratory Analytical Parameters																												
Dissolved Inorganic Carbon	mg/L	120	76	91	85	120	110	71.6	54.7	103	77.5	89	84.8	68.5	110	120	75	96	91	130	100	97	20	43.4	34.4	63	66.8	50.9
Dissolved Organic Carbon	mg/L	7.50	2.60	3.20	4.70	5.40	3.20	1.82	4.90	5.9	7.1	5	0.47	4.8	41.00	42.90	36.00	29.40	41.90	35	42.50	48.90	32.70	39.6	32.6	24.9	1.1	9.4
Iron (total)	mg/L	0.0641	<0.05	<0.05	0.0504	0.084	<0.019	0.11	0.07	0.065	<0.050	<0.050	0.0332	0.026	1.15	4.26	0.162	0.421	1.26	1.80	5.94	5.89	5.24	8.84	1.43	0.347	0.966	0.4
Ferric Iron	mg/L	<0.10	<0.10	<0.10	<0.10	-0.013	NR	0.109	<0.10	<0.10	<0.10	<0.100	<0.50	<0.10	1.20	4.3	<0.10	<0.10	1.3	1.80	5.95	5.82	4.98	8.84	1.43	0.347	0.04	0.4
Ferrous Iron	mg/L	<0.10	<0.10	<0.10	<0.10	0.096	<0.015	<0.10	<0.10	<0.10	<0.10	<0.100	0.17	0.15	<0.05	<0.10	0.13	0.36	<0.10	<0.10	<0.075	0.08	0.26	<0.10	<0.1	<0.100	0.93	<0.10
Nitrite-Nitrate as Nitrogen	mg/L	NS	NS	<0.060	<0.060	NS	<0.02	NS	NS	NS	NS	NS	NS	NS	<0.05	NS	NS	<0.060	<0.060	NS	<0.02	NS	NS	NS	NS	NS	NS	NS
Nitrate as Nitrogen	mg/L	NS	NS	NS	NS	<0.1	NS	<0.05	<0.05	<0.05	<0.10	<0.050	<0.10	<0.10	NS	NS	NS	NS	NS	<0.1	NS	<0.05	<0.05	<0.05	<0.014	<0.050	<0.1	<0.50
Sulfate	mg/L	572	609	621	594	430	640	545	684	614	565	557	506	614	<25.0	61.7	60.1	128	129	86	99	53	128	156	104	62.6	122	122
Sulfide	mg/L	8.80	26.80	24.80	25.2	12	19.60	0.80	14.00	18.8	19.2	25.6	24	19.2	0.80	8	27.2	14.4	14.4	13	13.60	9.60	9.60	20.4	27.2	4.4	37.7	22.4
Methane	mg/L	2.60	0.82	1.10	1.30	6.50	3.30	3.80	1.30	2.5	2.2	1.1	2.2	1.6	13	13	9.90	14	12	18	16	11	11	19	13	16	12	9.8
Ethene	mg/L	0.06	0.02	0.05	<0.02	<0.10	0.05	0.04	0.03	0.03	0.03	<0.01	0.01	<0.01	6.00	9.10	3.90	7.00	3.00	5.30	9.10	4.90	5.50	3.2	0.59	0.53	1.4	1
Ethane	mg/L	<0.02	<0.02	<0.02	<0.02	<0.10	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	4.60	1.10	0.99	1.90	2.20	3.3	3.1	2.4	2.4	3.8	1.6	2.1	0.8	0.67
Dehalococcoides (Dhc) Enumeration	per liter	6×10^6	9×10^5	6×10^5	8×10^5	4×10^6	1×10^6	3×10^6	2×10^7	6×10^6	1×10^7	7×10^6	2×10^6	3×10^6	2×10^8	8×10^8	7×10^6	3×10^7	9×10^6	6×10^7	5×10^7	2×10^8	3×10^8	5×10^7	5×10^8	4×10^8	2×10^8	3×10^8
% Dhc		0.5 - 1.0	0.06 - 0.2	0.03 - 0.1	.08 - 0.2	0.7 - 2	0.2 - 0.7	0.5 - 1	2 - 5	0.7 - 2	0.8 - 2	0.8 - 2	0.3 - 0.8	0.2 - 0.6	100	13 - 34	0.2 - 0.6	0.5 - 1.0	0.2 - 0.7	5 - 15	3 - 9	8 - 22	7 - 20	2 - 7	22 - 52	9 - 25	10 - 28	8 - 23
Vinyl Chloride Reductase (vcrA)	per liter	2×10^7	7×10^6	1×10^6	2×10^6	4×10^6	8×10^5	4×10^6	7×10^7	2×10^7	3×10^7	2×10^7	7×10^6	5×10^6	6×10^7	2×10^9	8×10^7	4×10^7	2×10^5	4×10^7	5×10^7	8×10^7	4×10^8	1×10^8	5×10^8	4×10^8	2×10^8	2×10^8
% vcrA		1 - 4	0.5 - 1	0.05 - 0.2	0.1 -0.4	0.6 - 2	0.2 - 0.6	0.6 - 2	6 - 17	2 - 6	2 - 6	2 - 7	1 - 3	0.4 - 1	>93	36 - 75	2 - 6	0.7 - 2	0.1 - 0.4	3 - 10	3 - 9	3 - 10	9 - 24	4 - 13	23 - 54	8 - 23	12 - 30	6 - 17

(1) = Correction factor applied to correct for non-specific PCR amplification products.

(2) = Dehalococcoides DNA detected but below sample specific quantitation limit. Tha sample specific quantitation limit is 4×10^3/liter. Additional explanation provided in: Interpretation of Quantitative Gene-Trac Dehalococcoides Test Results.

(3) = Dehalococcoides DNA detected but below sample specific quantitation limit. The sample specific quantitation limit is 5×10^3/liter. Additional explanation provided in: Interpretation of Quantitative Gene-Trac Dehalococcoides Test Results.

(4) = vcrA DNA detected but below sample specific quantitation limit.

NS = Not Sampled.

NA = Not applicable as Dehalococcoides or vcrA DNA not detected.

ND (1) = Not Detected. The quantitation limit is 7×10^3/liter

J = The associated value is an estimated quanity between the mothod detection limit and quanitation limit.

ND (2)= Not Detected. The quantitation limit is 4×10^3/liter

ND (3)= Sample inhibited testing; this increases the probability that test result is a false negative.

NR = Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Inconclusive = Inconclusive results may indicate extremely low concentrations of *Dehalococcoides* DNA or *vcrA* DNA at or below the sample specific quantitation limit (4×10^3/liter), however, test results were insufficient to assign a conclusive positive result for this sample.

Pioneer Midler Avenue LLC
Monitoring Natural Attenuation
Water Quality Parameters

Parameter	Units	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-14D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D
Sample Date		02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	06/07/10	10/26/10	05/12/11	12/07/11	02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/09	03/02/10	06/07/10	10/26/10	05/12/11	12/07/11
Field Parameters																										
pH		6.08	6.33	6.35	6.56	6.66	6.58	6.55	6.27	6.46	7.39	6.57	7.00	6.60	6.42	6.73	6.72	6.97	6.96	6.93	6.61	6.53	6.78	7.91	7.04	7.3	6.99
Conductivity	S/m	7.10	5.57	5.10	4.22	4.36	6.87	4.53	4.90	5.17	4.89	4.66	4.31	4.25	1.53	2.00	2.12	2.37	1.90	2.96	2.20	2.41	2.26	2.42	2.42	1.85	1.99
Temperature	°F	46.94	59.28	61.88	59.66	57.00	59.94	61.52	60.28	59.18	59.36	64.31	63.7	57.85	46.76	55.11	58.73	53.31	46.2	54.82	57.65	50.92	49.55	54.68	60.46	61.18	53.58
Oxidation/Reduction Potential (ORP)	mV	-367	-333	-342	-338	-345	-344	-366	-397	-359	-365	-342	-379	-321	-218	-319	-347	-323	-340	-324	-373	-380	-344	-350	-291	-375	-320
Dissolved Oxygen	mg/L	2.18	0.0	0.98	0.0	0.0	0.0	1.6	2.8	0.26	0.0	0.0	0.0	0.0	4.39	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	3.23	0.0	0.0	0.0
Laboratory Analytical Parameters																										
Dissolved Inorganic Carbon	mg/L	240	220	260	260	290	270	209	206	250	172	210	169	205	190	150	130	130	160	160	97.3	104	159	106	130	118	140
Dissolved Organic Carbon	mg/L	570	900	179	181	190	124	95	123	118	89.8	79	28.1	72.7	17	11.90	6.30	8.10	5.80	7.20	7.76	10.60	11.6	150	8.1	2.4	10.9
Iron (total)	mg/L	1.34	0.152	0.107	0.209	0.14	0.093	0.076	0.048	0.058	0.133	0.051	0.0995	0.02	1.27	0.094	0.135	0.624	0.450	0.11	0.398	0.055	0.097	0.05	0.105	0.174	0.12
Ferric Iron	mg/L	1.30	0.15	0.11	0.21	0.14	NR	0.076	<0.10	<0.10	0.133	<0.100	<0.50	<0.100	1.10	<0.10	<0.10	0.62	0.37	0.11	0.398	<0.10	<0.10	<0.10	0.105	0.18	<0.10
Ferrous Iron	mg/L	<0.10	<0.10	<0.10	<0.50	<0.10	<0.015	<0.10	<0.10	<0.10	<0.10	<0.100	0.39	<0.100	0.14	0.55	0.22	<0.10	0.084	<0.0150	<0.10	<0.10	<0.10	<0.10	<0.100	<0.5	0.15
Nitrite-Nitrate as Nitrogen	mg/L	NS	NS	<0.060	<0.060	NS	<0.02	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.060	<0.060	NS	<0.02	NS	NS	NS	NS	NS	NS	NS
Nitrate as Nitrogen	mg/L-N	NS	NS	NS	NS	0.14	NS	<0.50	<0.50	<0.50	<0.10	<0.050	<0.01	<0.050	NS	NS	NS	NS	<0.10	NS	<0.05	<0.05	<0.05	<0.10	<0.050	<0.100	<0.05
Sulfate	mg/L	10.50	<2.0	<20.0	<4.0	<100	3.2	8.92	17.8	12	34.2	32.5	60.6	67	126	309	637	623	420	380	479	441	440	559	786	519	410
Sulfide	mg/L	62.40	65.60	74.40	69.60	66	73.20	70.80	58.40	69.2	62.8	69.2	48	36	4	16.80	17.20	22.40	14	0.80	20.00	16.40	18.4	26.4	32.4	36	34.4
Methane	mg/L	11	11	22	25	25	29	28	27	29	20	24	20	26	4.10	8.20	11	6.50	15	16	13	17	18	13	9.1	12	9.4
Ethene	mg/L	0.48	0.63	2.70	1.9	1.7	2	1.9	1.9	1.7	1.2	0.88	0.18	0.23	<0.02	<0.10	<0.02	<0.02	<0.10	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.04	<0.01
Ethane	mg/L	<0.10	<0.10	<0.02	<0.10	<0.10	<0.01	<0.10	<0.10	<0.02	<0.1	0.03	0.06	0.06	<0.02	<0.10	<0.02	<0.02	<0.10	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.04	<0.01
Dehalococcoides (Dhc) Enumeration	per liter	1×10^9	9×10^8	3×10^8	7×10^7	1×10^8	2×10^7	2×10^7	3×10^7	4×10^6	2×10^7	2×10^7	5×10^6	4×10^6	ND [1]	7×10^6	ND[2]	NA	ND[1,3]	1×10^5	Inconclusive	1×10^4	NA	Inconclusive	1×10^3	4×10^3	3×10^3 J
% Dhc		17 - 43	27 - 62	7 - 18	3 - 9	6 - 16	1 - 4	1 - 4	2 - 5	0.5 - 1	0.8 - 2	2 - 5	0.5 - 1	0.5 - 1	NA	0.2 - 0.6	NA	Inconclusive	NA	0.2 - 0.05	NA	0.0008 - 0.002	ND[3]	NA	0.00001 - 0.0000	0.0009 - 0.003	0.0006 - 0.002
Vinyl Chloride Reductase (vcrA)	per liter	2×10^7	3×10^7	2×10^8	3×10^7	2×10^7	2×10^6	3×10^6	1×10^7	1×10^6	9×10^6	9×10^6	4×10^6	1×10^6	NA	Inconclusive	NA	ND[2]	NA	1×10^4	Inconclusive	4×10^4	NA	ND[2]	ND	4×10^3 U	1×10^4
% vcrA		0.5 - 2	0.9 - 3	4 - 11	1 - 4	1 - 3	0.2 -0.5	0.2 -0.7	0.7 - 2	0.2 -0.5	0.3 -0.9	0.6 - 2	0.3 - 1	0.1 -0.4	NA	NA	ND[2]	NA	NA	0.001 - 0.004	NA	0.003 - 0.008	NA	NA	NA	NA	0.002 - 0.006

Parameter	Units	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D
Sample Date		02/12/08	06/02/08	10/06/08	12/23/08	03/02/09	06/02/09	09/30/09	12/21/10	03/02/10	06/07/10	10/26/10	05/12/11	12/07/11
Field Parameters														
pH		6.35	6.68	6.61	6.77	6.89	6.73	6.89	6.56	6.66	6.77	6.80	7.02	6.78
Conductivity	S/m	3.75	3.46	4.62	4.34	4.29	6.78	4.79	5.55	5.54	5.64	5.62	4.92	5.23
Temperature	°F	56.12	61.32	64.18	59.22	56.64	60.22	62.96	60.51	56.32	60.98	66.42	60.33	63.23
Oxidation/Reduction Potential (ORP)	mV	-375	-336	-342	-336	-340	-324	-366	-364	-324	-336	-337	-347	-278
Dissolved Oxygen	mg/L	0.79	0.0	0.84	1.51	0.0	0.0	1.6	0.0	0.0	0.0	0.1	0.0	0.0
Laboratory Analytical Parameters														
Dissolved Inorganic Carbon	mg/L	240	160	150	160	170	140	129	117	150	113	130	123	106
Dissolved Organic Carbon	mg/L	194.00	105.00	45.70	35.00	19.00	16.80	18.10	27.20	26.20	19.00	20.40	4.90	578
Iron (total)	mg/L	0.338	0.076	0.512	0.094	0.18	0.106	0.031	0.138	0.163	0.118	0.039	0.181	0.098
Ferric Iron	mg/L	0.34	<0.10	0.51	<0.10	0.18	0.106	<0.10	0.138	0.163	<0.10	<0.100	<0.5	<0.10
Ferrous Iron	mg/L	<0.10	<0.20	<0.10	<0.10	<0.10	<0.0150	<0.10	<0.10	<0.10	0.184	<0.100	0.21	0.08
Nitrite-Nitrate as Nitrogen	mg/L	NS	NS	<0.060	<0.060	NS	<0.02	NS	NS	NS	NS	NS	NS	NS
Nitrate as Nitrogen	mg/L-N	NS	NS	NS	NS	<0.1	NS	<0.05	<0.05	<0.05	<0.1	<0.050	<0.1	<0.050
Sulfate	mg/L	10.40	<2.0	<20.0	13.4	24	44	63.4	155	91.6	147	83.6	98.8	107
Sulfide	mg/L	21.60	26.00	36.00	37.20	38.00	33.60	28.40	17.20	19.60	14.80	20.40	17.20	14.00
Methane	mg/L	22	19	27	23	24	27	29	24	24	12	22	21	17
Ethene	mg/L	0.29	<0.10	0.06	<0.10	<0.10	0.1	0.11	<0.10	0.06	<0.1	0.01	<0.04	<0.01
Ethane	mg/L	<0.10	0.18	0.18	0.12	<0.10	<0.10	<0.10	<0.10	<0.02	<0.1	0.02	<0.04	0.02
Dehalococcoides (Dhc) Enumeration	per liter	2×10^8	1×10^7	1×10^7	3×10^7	3×10^6	1×10^6	1×10^6	2×10^7	2×10^6	2×10^6	2×10^6	8×10^5	2×10^6
% Dhc		5 - 14	0.3 - 0.8	0.2 - 0.6	3 - 9	0.5 - 2	0.2 - 0.7	0.3 - 0.9	3 - 9	0.3 - 1	0.3 - 0.8	0.2 - 0.6	0.1 - 0.3	0.2 - 0.7
Vinyl Chloride Reductase (vcrA)	per liter	2×10^8	3×10^7	6×10^6	2×10^6	9×10^5	5×10^5	3×10^5	3×10^6	2×10^6	2×10^6	1×10^6	9×10^5	1×10^6
% vcrA		5 - 14	0.8 - 2	0.1 -0.4	0.1 - 0.4	0.1 - 0.4	0.08 - 0.3	0.06 - 0.2	0.4 - 1	0.2 - 0.6	0.2 - 0.6	0.2 - 0.5	0.1 - 0.4	0.1 - 0.4

[1] = Correction factor applied to correct for non-specific PCR amplification products.

[2] = Dehalococcoides DNA detected but below sample specific quantitation limit. Tha sample specific quantitation limit is 4×10^3/liter. Additional explanation provided in: Interpretation of Quantitative Gene-Trac Dehalococcoides Test Results.

[3] = Dehalococcoides DNA detected but below sample specific quantitation limit. The sample specific quantitation limit is 5×10^3/liter. Additional explanation provided in: Interpretation of Quantitative Gene-Trac Dehalococcoides Test Results.

[4] = vcrA DNA detected but below sample specific quantitation limit.

NS = Not Sampled.

NA = Not applicable as Dehalococcoides or vcrA DNA not detected.

ND [1] = Not Detected. The quantitation limit is 7×10^3/liter

ND [2] = Not Detected. The quantitation limit is 4×10^3/liter

ND [3] = Sample inhibited testing; this increases the probability that test result is a false negative.

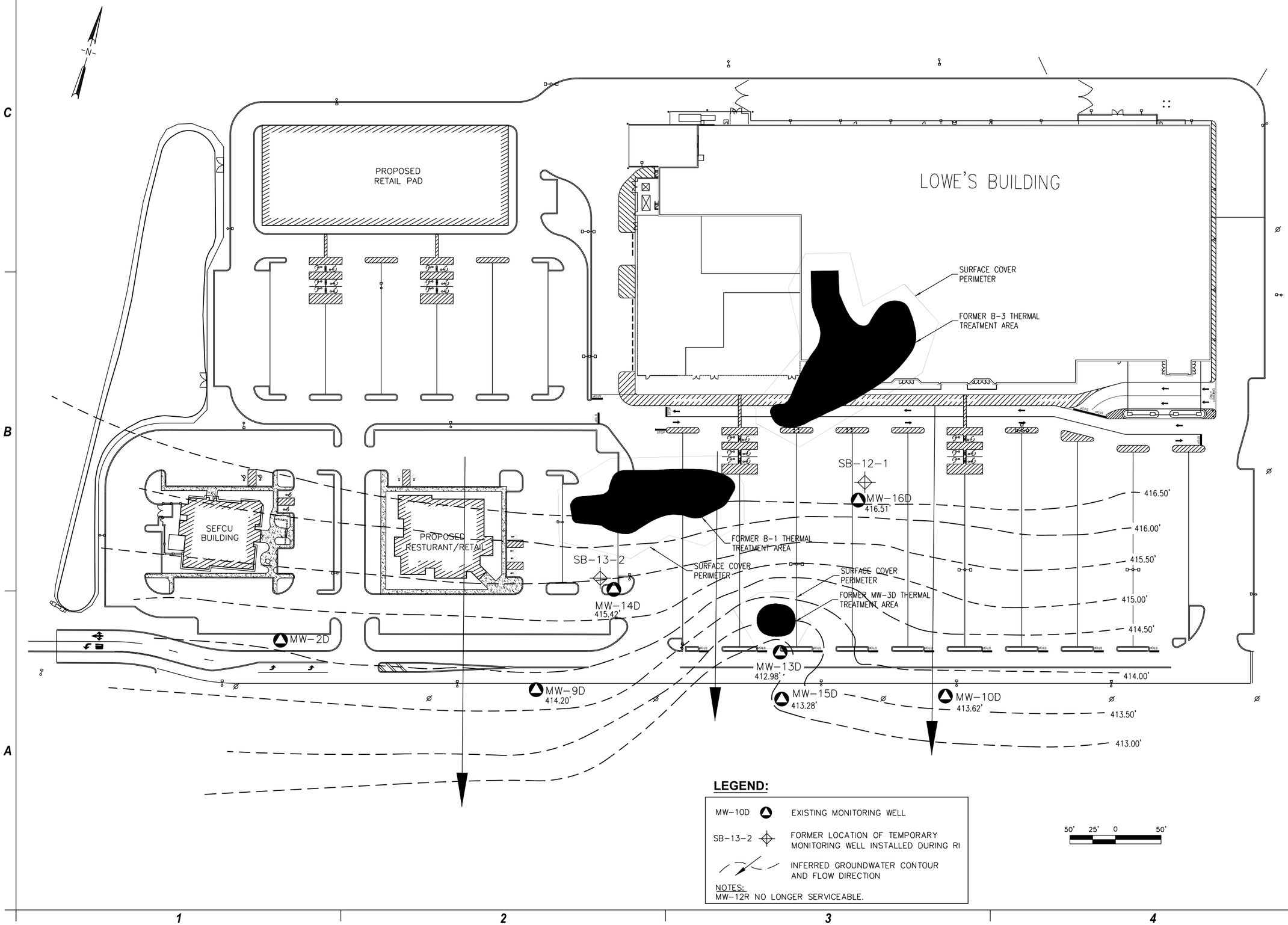
NR = Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Inconclusive = Inconclusive results may indicate extremely low concentrations of *Dehalococcoides* DNA or *vcrA* DNA at or below the sample specific quantitation limit (4×10^3/liter), however, test results were insufficient to assign a conclusive positive result for this sample.

J = The associated value is an estimated quanity between the mothod detection limit and quanitation limit.

APPENDIX B-4

GROUNDWATER CONTOUR MAPS 2011



C&S COMPANIES®
C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

PIONEER MIDLER AVENUE, LLC
POST IRM MONITORING
MIDLER CITY
INDUSTRIAL PARK
BROWNFIELD CLEANUP
SYRACUSE, NY
NYSDEC BROWNFIELD SITE No. C734103

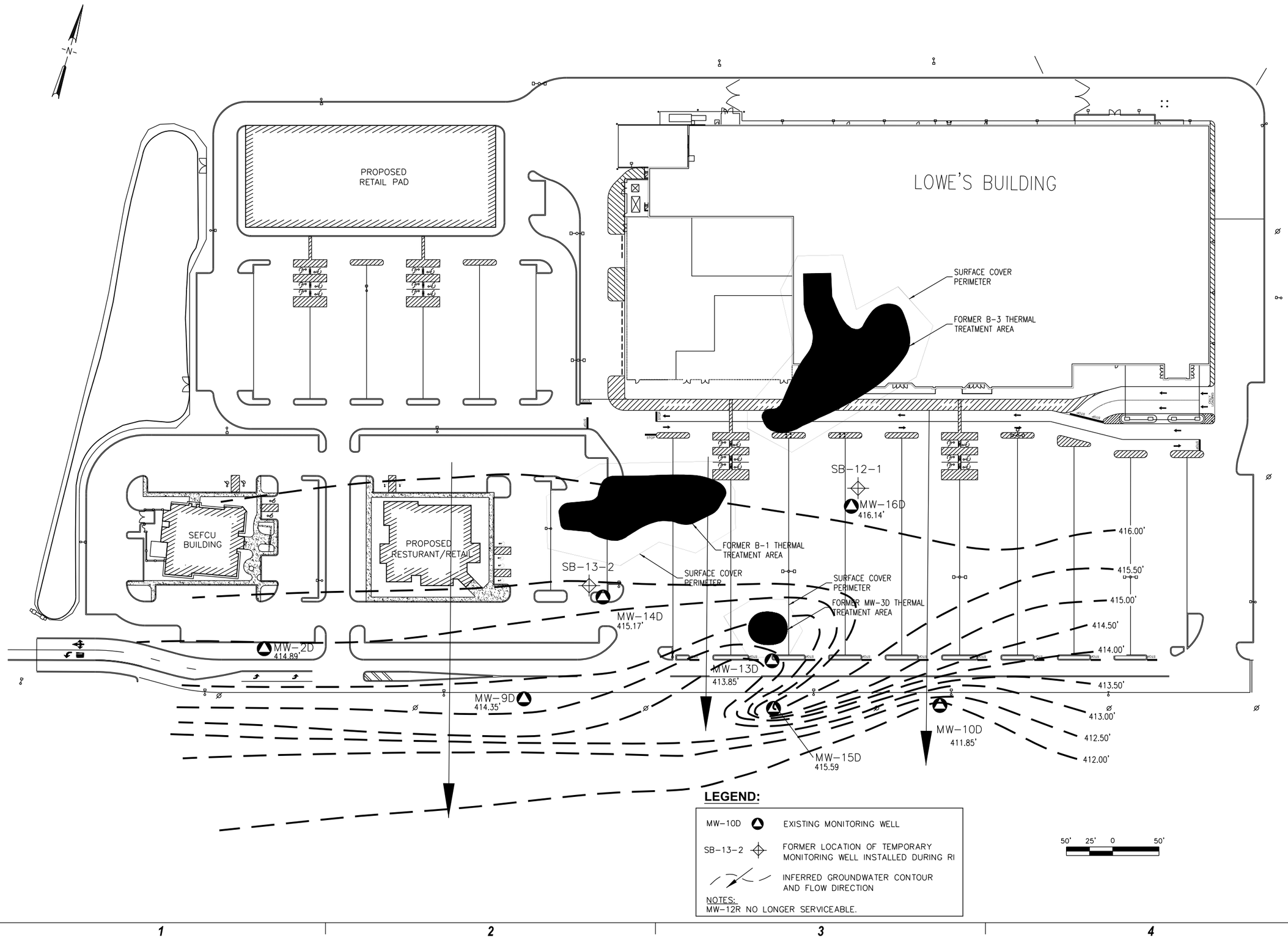
MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	
DATE:	MAY 2011
SCALE:	AS SHOWN
DRAWN BY:	B. BUCKINGHAM
DESIGNED BY:	
CHECKED BY:	

MAY 12, 2011
GROUNDWATER
CONTOUR MAP

FIGURE 1



C&S COMPANIES®
C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

PIONEER MIDLER AVENUE, LLC
POST IRM MONITORING
MIDLER CITY
INDUSTRIAL PARK
BROWNFIELD CLEANUP
SYRACUSE, NY
NYSDEC BROWNFIELD SITE No. C734103

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO:	
DATE:	DECEMBER 2011
SCALE:	AS SHOWN
DRAWN BY:	M. BUCKINGHAM
DESIGNED BY:	
CHECKED BY:	

DECEMBER 7, 2011
GROUNDWATER
CONTOUR MAP

FIGURE 1

APPENDIX C

SSDS LAYOUT AND INSPECTION/OPERATIONAL DOCUMENTATION

EF-6

EF-8

EF-5

EF-7

EF-10

EF-4

EF-9

EF-3

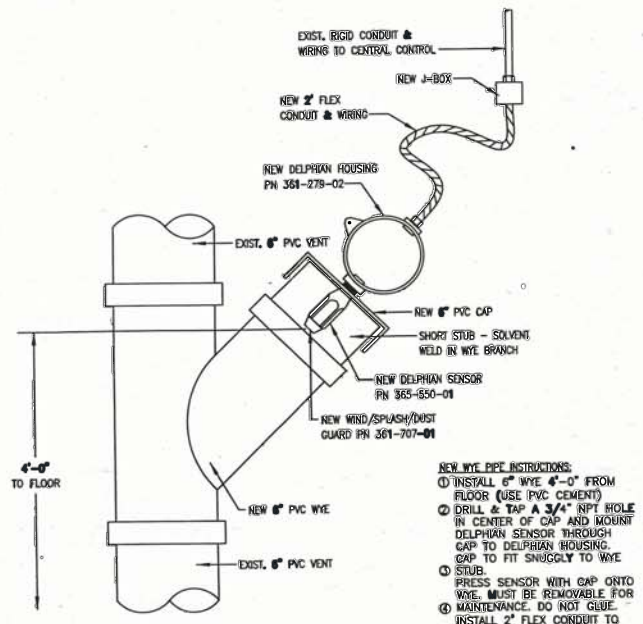
EF-2

1 SS-1 SUBSLAB VENTILATION PLAN
SCALE 1" = 20'-0"

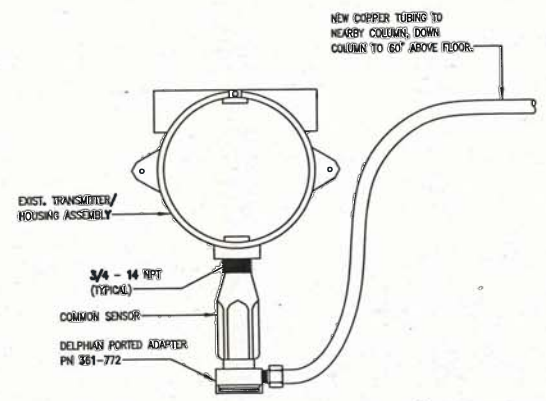
FLAG NOTES

1. 4" Schedule 40 PVC perimeter pipe perimeter.
2. 3" Schedule 40 PVC perforated pipe lateral.
3. 6" Schedule 80 PVC pipe riser with methane gas detector at 24" AB. Floor and Exhaust Fan between bar joists. See Detail 6-G Sheet SS-2.
4. Ceiling mounted methane gas detector, See Detail 3 this sheet
5. Wall mounted methane gas detector 24" above floor.
6. Control module in NEMA 4X panel on wall at 5'-0" above floor.
7. Horn and Strobe at 15 feet above floor
8. Alarm light
9. Vacuum monitoring point in floor, see detail sheet SS-2.

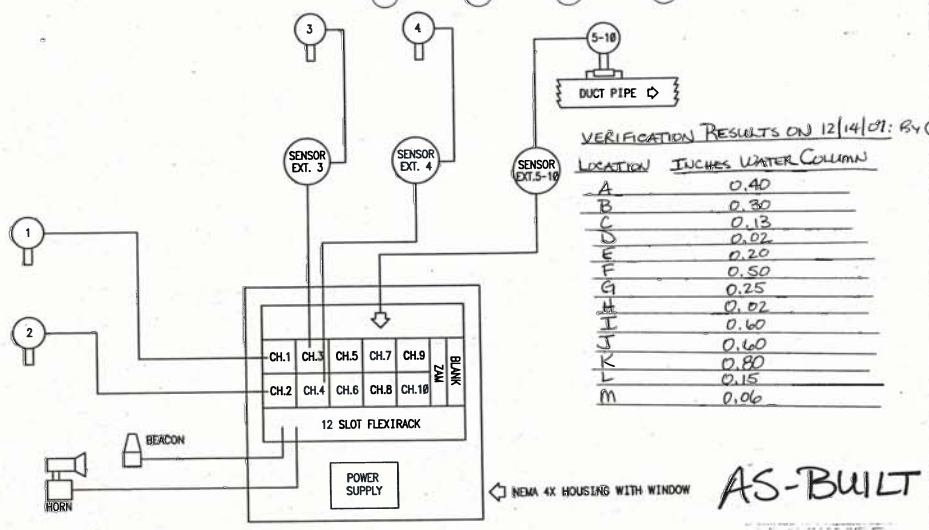
NOTE:
COORDINATE ALL WORK WITH THE FOUNDATION LOCATIONS AND WITH OTHER TRADES.



2 SS-1 DUCT SENSOR INSTALLATION DETAIL
SCALE NONE



3 SS-1 CEILING MOUNTED DETECTORS IN SALES AREA
SCALE NONE



VERIFICATION RESULTS ON 12/14/09: BY (SRT)

LOCATION	INCHES WATER COLUMN
A	0.40
B	0.30
C	0.12
D	0.02
E	0.20
F	0.50
G	0.25
H	0.02
I	0.60
J	0.60
K	0.80
L	0.15
M	0.06

GAS DETECTION SYSTEM
NOT TO SCALE

AS-BUILT

JAN 11 2008

REVISIONS	
DATE	DESCRIPTION
11-14-07	1

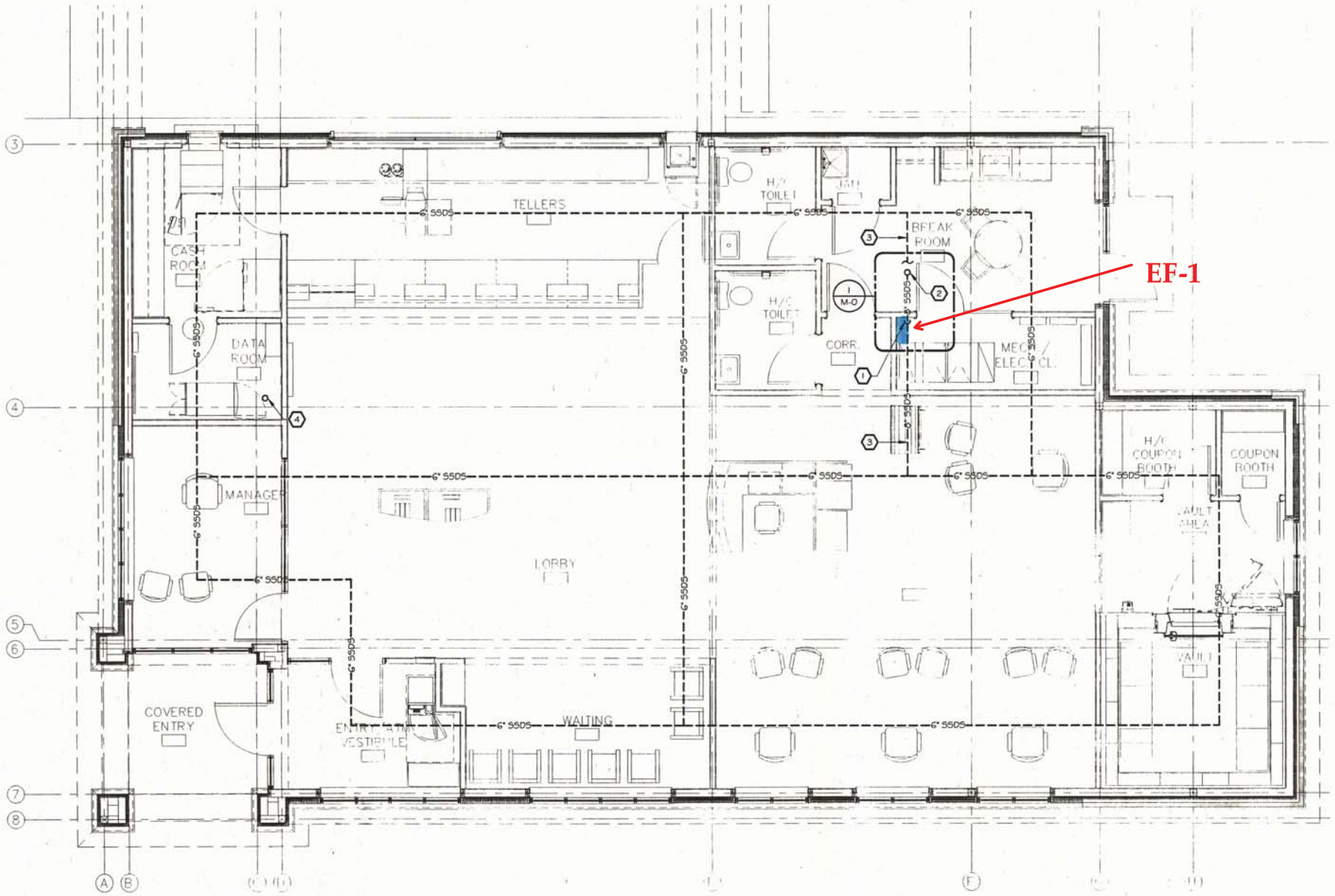
ELECTRO-MECH ENGINEERING, INC.
3511 High Street NE
Canal Fulton, Ohio 44614-1158
(330) 854-0347 (mbx) (330) 854-0492 (fax)
1-877-277-8849 (toll free)
design@electro-mech-eng.com

DeWolff Partnership ARCHITECTS LLP

LOWE'S

SUBSLAB VENTILATION PLAN
LOWE'S OF SYRACUSE
SYRACUSE, NEW YORK
PROJECT: 08-007 DRAWN BY: EME CHECKED BY: EME

CRITERIA
ISSUE DATE: 09.01.06
PERMIT SET
ISSUE DATE: 03.16.07
CONSTRUCTION SET
ISSUE DATE:
DRAWING NUMBER:
SS-1
116WSS01 03.30.04



1 SUB-SLAB PIPING PLAN

1/4" = 1'-0"

KEYED NOTES:

1. 6" SCHEDULE 40 PVC SUB-SLAB DEPRESSURIZATION SYSTEM RISER.
2. 6" SSDS PIPING UP. REFER TO DRAWING M-2 FOR CONTINUATION OF PIPING.
3. 6" SSDS COLLECTION HEADER SHALL BE NON-PERFORATED.
4. VACUUM MONITORING POINT CONSISTING OF 3/8" TUBE AND RUBBER CORK. TUBE SHALL EXTEND 2" BELOW VAPOR BARRIER. REFER TO 5/M-0.

GENERAL DRAWING NOTES:

A. CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH CONCRETE FLOOR SLAB AIR-TIGHT WITH STEGO INDUSTRIES PRODUCTS UTILIZED IN ACCORDANCE WITH STEGO INDUSTRIES PROCEDURES AND RECOMMENDATIONS.

DEC 19 2007

NEW BRANCH
AT
MIDLER CROSSING
MIDLER AVENUE, CITY OF SYRACUSE
NEW YORK
ONONDAGA COUNTY
OF
SEFCU

NO.:	REVISION:	DATE:
1		00/00/01
2		/ /
3		/ /
4		/ /
5		/ /
6		/ /
7		/ /

Argus Engineering, PLLC
Hogan Block 251 West Fayette Street Syracuse, NY 13202
Phone: 315-475-6061 Fax: 315-475-6071

SCALE: AS SHOWN | DRWN / CHCK: EMD/GLL | DATE: 07-10-07

SHEET TITLE:
SUB-SLAB
PIPING PLAN

AS-BUILT

SHEET NO.:
M-1

DATE: 1-7-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 ~1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scuta
(Print Name)

(Signature)

DATE: 1-14-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Surnton
(Print Name)

(Signature)

DATE: 1-21-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 1-28-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 2-4-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scrafton
(Print Name)

(Signature)

DATE: 2-11-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 2-18-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 2-25-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scranton
(Print Name)

(Signature)

DATE: 3-4-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 3-11-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scranton
(Print Name)

(Signature)

DATE: 3-18-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 3-25-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scrutm
(Print Name)

(Signature)

DATE: 4-1-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 4-8-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 4-15-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 4-22-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 4-28-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scanlon
(Print Name)

(Signature)

DATE: 5-6-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 5-13-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 5-20-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 5-27-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Surnton
(Print Name)

(Signature)

DATE: 6-3-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 6-10-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 6-17-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:
Fans #2, #9 were replaced on June 14, 2011. We had two Model FG6 Fantech Duct fans on site. Both fans where still operational, but readings began to fluctuate.

INSPECTED BY:

Jim Scrafton
(Print Name)

(Signature)

DATE: 6-24-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 6-30-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 7-8-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 7-15-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 7-22-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 7-29-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 8-4-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scrufton
(Print Name)

(Signature)

DATE: 8-12-14

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 8-19-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
1		-1
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 8-24-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scrufton
(Print Name)

(Signature)

DATE: 9-2-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 9-9-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 9-16-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scrafm
(Print Name)

(Signature)

DATE: 9-23-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Sam Scranton
(Print Name)

(Signature)

DATE: 9-30-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 10-7-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
1		-1
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Serwin
(Print Name)

(Signature)

DATE: 10/8/91

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 10-21-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scranton
(Print Name)

(Signature)

DATE: 10-28-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 11-4-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	1 -1
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 11-10-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 11-18-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scranton
(Print Name)

(Signature)

DATE: 11-23-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scranton
(Print Name)

(Signature)

DATE: 12-2-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

DATE: 12-9-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scanlon
(Print Name)

(Signature)

DATE: 12-16-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scrafford
(Print Name)

(Signature)

DATE: 12-23-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scranton
(Print Name)

(Signature)

DATE: 12-30-11

SUBSLAB DEPRESSURIZATION SYSTEMS
MIDLER CROSSING
SYRACUSE, NEW YORK

EXHAUST FAN #	LOWE'S	SEFCU
2	-1	
3	-1	
4	-1	
5	-1	
6	-1	
7	-1	
8	-1	
9	-1	
10	-1	
1		-1

*The above measurements are in "inches of water" taken from Dwyer Series 2000, Magnehelic gages.

COMMENTS:

INSPECTED BY:

Jim Scruton
(Print Name)

(Signature)

APPENDIX D

PROPERTY INSPECTION FORMS

SHOPPING CENTER
PROPERTY INSPECTION

PROPERTY NAME Miller Crossing Inspected By L Byrnes
PROPERTY NO. 650 Date 4/13/11
Approved _____

I. Exterior: ~~Site & Building~~ Lot Condition Only

* A. Parking Lot Asphalt (holes, fractures, low spots, liability hazards, oil & stone, shim).
Good Condition

B. Storm Water Drainage (catch basins, swails, ditches, culverts: clean & operating, ~~pumps operating~~ and PM program in force, ~~hour meters working~~; clean out catch basins).
Good - Weekly Inspection

C. Fire Hydrants (protected, painted, visibility, access, shown on drawing).
All O.K.

D. Fire Lanes and Handicapped Parking (properly marked & signed).
Need Touch Up

* E. Snow removal (stock pile areas established, delineator posts needed, drainage problems, damaged areas).
N/A

* F. Parking Lot Lighting (operation, test to verify operation, lens/lamp replacement, paint, photocell, timeclocks, manual override switch, anchor bolts & base secure, base cover secure).
All Operating, Bolts + Covers O.K.

G. Water/Gas Shutoffs, Sewer Cleanouts (properly covered, locations known and shown on drawing, test shutoffs).
O.K.

*Monthly Inspection

* H. Buffer Areas (properly cut, debris removed).

O.K

* I. Sidewalks & Curbs (maintenance, drainage, handicap ramps, re-caulk, refuse containers, tripping hazards).

O.K

J. Striping (condition of paint, areas to be relined, skip next year).

LOWER'S AREA NEED TO BE RELINED

* K. Traffic Control Devices (traffic signal operation, speed limit/vehicle signage - faded/additions needed).

OK

L. Paint (exterior walls, trim, service doors, trash areas, compactors, canopies).

O.K

M. Caulking (type of failures & extent).

O.K

* N. Landscaping (cleanliness, maintenance program, drainage, add plantings, weed killer at curbs, cracks, etc.).

SPRING CLEAN NEEDED

* O. Pylon & other signs (paint, rusting, fading, lighting, time clock control, reader board letter inventory).

O.K

* P. Other Items (compactor locked off, propane tank safety, water silcocks, loading areas; Put tenant info on tenant sheets).

N.A.

SHOPPING CENTER
PROPERTY INSPECTION

PROPERTY NAME MILLER AVE Inspected By L. BYRNES

PROPERTY NO. 46 Date 10/11/11

Approved _____

I. Exterior: Site ~~& Building~~ LOT CONDITION ONLY

* A. Parking Lot Asphalt (holes, fractures, low spots, liability hazards, oil & stone, shim).

GOOD CONDITION

B. Storm Water Drainage (catch basins, swails, ditches, culverts: clean & operating, ~~pumps operating~~ and PM program in force, ~~hour meters working~~; clean out catch basins).

ALL CLEAN - OK

WEEKLY INSPECTIONS DONE

C. Fire Hydrants (protected, painted, visibility, access, shown on drawing).

O.K

D. Fire Lanes and Handicapped Parking (properly marked & signed).

NEWLY PAINTED

* E. Snow removal (stock pile areas established, delineator posts needed, drainage problems, damaged areas).

N/A

* F. Parking Lot Lighting (operation, test to verify operation, lens/lamp replacement, paint, photocell, timeclocks, manual override switch, anchor bolts & base secure, base cover secure).

O.K

G. Water/Gas Shutoffs, Sewer Cleanouts (properly covered, locations known and shown on drawing, test shutoffs).

O.K

*Monthly Inspection

* H. Buffer Areas (properly cut, debris removed).

O.K

* I. Sidewalks & Curbs (maintenance, drainage, handicap ramps, re-caulk, refuse containers, tripping hazards).

O.K.

J. Striping (condition of paint, areas to be relined, skip next year).

LOWE'S HAS SEALED AND RELINED THEIR ENTIRE LOT

* K. Traffic Control Devices (traffic signal operation, speed limit/vehicle signage - faded/additions needed).

O.K

L. Paint (exterior walls, trim, service doors, trash areas, compactors, canopies).

O.K

M. Caulking (type of failures & extent).

OK

* N. Landscaping (cleanliness, maintenance program, drainage, add plantings, weed killer at curbs, cracks, etc.).

O.K

* O. Pylon & other signs (paint, rusting, fading, lighting, time clock control, reader board letter inventory).

O.K

* P. Other Items (compactor locked off, propane tank safety, water silcocks, loading areas; Put tenant info on tenant sheets).

N/A

*Monthly inspection

APPENDIX E

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C734103**

Site Name Midler City Industrial Park

Site Address: 621 S. Midler Ave. (aka 701 Nichols Ave.) Zip Code: 13206
City/Town: Syracuse
County: Onondaga
Site Acreage: 21.7

Reporting Period: March 01, 2011 to March 01, 2012

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C734103 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
033.1-01-01.3	Pioneer Midler Avenue, LLC	Ground Water Use Restriction Site Management Plan Soil Management Plan
033.1-01-01.4	Pioneer Midler Avenue, LLC	Ground Water Use Restriction Site Management Plan Soil Management Plan
033.1-01-01.5	Pioneer Midler Avenue, LLC	Ground Water Use Restriction Site Management Plan Soil Management Plan
033.1-01-01.6	Pioneer Midler Avenue, LLC	Ground Water Use Restriction Site Management Plan Soil Management Plan
033.1-01-01.7	Pioneer Midler Avenue, LLC	Ground Water Use Restriction Site Management Plan Soil Management Plan
033.1-01-02.4	Lowe's Home Centers, Inc.	Ground Water Use Restriction Site Management Plan Soil Management Plan
033.1-01-20.0	Pioneer Midler Avenue, LLC	Ground Water Use Restriction Site Management Plan Soil Management Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
033.1-01-01.3	Cover System Vapor Mitigation
033.1-01-01.4	Cover System Vapor Mitigation
033.1-01-01.5	Cover System Vapor Mitigation
033.1-01-01.6	Cover System Vapor Mitigation
033.1-01-01.7	Cover System Vapor Mitigation

Parcel	Engineering Control
033.1-01-02.4	Cover System Vapor Mitigation
033.1-01-20.0	Cover System Vapor Mitigation

Engineering Control Details for Site No. C734103

Parcel: 033.1-01-01.3

The Controlled Property may be used for commercial use as long as the following long-term engineering controls are employed:

(i) compliance with the Department-approved Site Management Plan ("SMP") for the implemented remedy until the remedial goals for the Controlled Property are attained or deemed complete by the Department;

(ii) maintenance at a minimum of a one foot cover system or a six inch pavement system or buildings over the Site and any disturbance of or excavation from the Site cover system at depths greater than the one foot shall be done in accordance of the requirements of the SMP;

(iii) the groundwater beneath the Controlled Property cannot be used as a potable water source or for any other use without prior written permission of the Department and the pumping and discharge of groundwater to the waters of the State shall not be allowed without appropriate treatment and approval of the governing State, County or Municipal authority;

(iv) continued groundwater monitoring in accordance with the SMP until the Department determines that such monitoring is unnecessary;

(v) installation and maintenance in accordance with the standards and procedures specified in the SMP of subslab depressurization ("SSD") systems for all buildings and building additions to be constructed on the Site and the continued operation and maintenance in accordance with the SMP of those SSD systems already installed on the Site;

Parcel: 033.1-01-01.4

The Controlled Property may be used for commercial use as long as the following long-term engineering controls are employed:

(i) compliance with the Department-approved Site Management Plan ("SMP") for the implemented remedy until the remedial goals for the Controlled Property are attained or deemed complete by the Department;

(ii) maintenance at a minimum of a one foot cover system or a six inch pavement system or buildings over the Site and any disturbance of or excavation from the Site cover system at depths greater than the one foot shall be done in accordance of the requirements of the SMP;

(iii) the groundwater beneath the Controlled Property cannot be used as a potable water source or for any other use without prior written permission of the Department and the pumping and discharge of groundwater to the waters of the State shall not be allowed without appropriate treatment and approval of the governing State, County or Municipal authority;

(iv) continued groundwater monitoring in accordance with the SMP until the Department determines that such monitoring is unnecessary;

(v) installation and maintenance in accordance with the standards and procedures specified in the SMP of subslab depressurization ("SSD") systems for all buildings and building additions to be constructed on the Site and the continued operation and maintenance in accordance with the SMP of those SSD systems already installed on the Site;

Engineering Control Details for Site No. C734103

Parcel: 033.1-01-01.5

The Controlled Property may be used for commercial use as long as the following long-term engineering controls are employed:

(i) compliance with the Department-approved Site Management Plan ("SMP") for the implemented remedy until the remedial goals for the Controlled Property are attained or deemed complete by the Department;

(ii) maintenance at a minimum of a one foot cover system or a six inch pavement system or buildings over the Site and any disturbance of or excavation from the Site cover system at depths greater than the one foot shall be done in accordance of the requirements of the SMP;

(iii) the groundwater beneath the Controlled Property cannot be used as a potable water source or for any other use without prior written permission of the Department and the pumping and discharge of groundwater to the waters of the State shall not be allowed without appropriate treatment and approval of the governing State, County or Municipal authority;

(iv) continued groundwater monitoring in accordance with the SMP until the Department determines that such monitoring is unnecessary;

(v) installation and maintenance in accordance with the standards and procedures specified in the SMP of subslab depressurization ("SSD") systems for all buildings and building additions to be constructed on the Site and the continued operation and maintenance in accordance with the SMP of those SSD systems already installed on the Site;

Parcel: 033.1-01-01.6

The Controlled Property may be used for commercial use as long as the following long-term engineering controls are employed:

(i) compliance with the Department-approved Site Management Plan ("SMP") for the implemented remedy until the remedial goals for the Controlled Property are attained or deemed complete by the Department;

(ii) maintenance at a minimum of a one foot cover system or a six inch pavement system or buildings over the Site and any disturbance of or excavation from the Site cover system at depths greater than the one foot shall be done in accordance of the requirements of the SMP;

(iii) the groundwater beneath the Controlled Property cannot be used as a potable water source or for any other use without prior written permission of the Department and the pumping and discharge of groundwater to the waters of the State shall not be allowed without appropriate treatment and approval of the governing State, County or Municipal authority;

(iv) continued groundwater monitoring in accordance with the SMP until the Department determines that such monitoring is unnecessary;

(v) installation and maintenance in accordance with the standards and procedures specified in the SMP of subslab depressurization ("SSD") systems for all buildings and building additions to be constructed on the Site and the continued operation and maintenance in accordance with the SMP of those SSD systems already installed on the Site;

Engineering Control Details for Site No. C734103

Parcel: 033.1-01-01.7

The Controlled Property may be used for commercial use as long as the following long-term engineering controls are employed:

(i) compliance with the Department-approved Site Management Plan ("SMP") for the implemented remedy until the remedial goals for the Controlled Property are attained or deemed complete by the Department;

(ii) maintenance at a minimum of a one foot cover system or a six inch pavement system or buildings over the Site and any disturbance of or excavation from the Site cover system at depths greater than the one foot shall be done in accordance of the requirements of the SMP;

(iii) the groundwater beneath the Controlled Property cannot be used as a potable water source or for any other use without prior written permission of the Department and the pumping and discharge of groundwater to the waters of the State shall not be allowed without appropriate treatment and approval of the governing State, County or Municipal authority;

(iv) continued groundwater monitoring in accordance with the SMP until the Department determines that such monitoring is unnecessary;

(v) installation and maintenance in accordance with the standards and procedures specified in the SMP of subslab depressurization ("SSD") systems for all buildings and building additions to be constructed on the Site and the continued operation and maintenance in accordance with the SMP of those SSD systems already installed on the Site;

Parcel: 033.1-01-02.4

The Controlled Property may be used for commercial use as long as the following long-term engineering controls are employed:

(i) compliance with the Department-approved Site Management Plan ("SMP") for the implemented remedy until the remedial goals for the Controlled Property are attained or deemed complete by the Department;

(ii) maintenance at a minimum of a one foot cover system or a six inch pavement system or buildings over the Site and any disturbance of or excavation from the Site cover system at depths greater than the one foot shall be done in accordance of the requirements of the SMP;

(iii) the groundwater beneath the Controlled Property cannot be used as a potable water source or for any other use without prior written permission of the Department and the pumping and discharge of groundwater to the waters of the State shall not be allowed without appropriate treatment and approval of the governing State, County or Municipal authority;

(iv) continued groundwater monitoring in accordance with the SMP until the Department determines that such monitoring is unnecessary;

(v) installation and maintenance in accordance with the standards and procedures specified in the SMP of subslab depressurization ("SSD") systems for all buildings and building additions to be constructed on the Site and the continued operation and maintenance in accordance with the SMP of those SSD systems already installed on the Site;

Engineering Control Details for Site No. C734103

Parcel: 033.1-01-20.0

The Controlled Property may be used for commercial use as long as the following long-term engineering controls are employed:

(i) compliance with the Department-approved Site Management Plan ("SMP") for the implemented remedy until the remedial goals for the Controlled Property are attained or deemed complete by the Department;

(ii) maintenance at a minimum of a one foot cover system or a six inch pavement system or buildings over the Site and any disturbance of or excavation from the Site cover system at depths greater than the one foot shall be done in accordance of the requirements of the SMP;

(iii) the groundwater beneath the Controlled Property cannot be used as a potable water source or for any other use without prior written permission of the Department and the pumping and discharge of groundwater to the waters of the State shall not be allowed without appropriate treatment and approval of the governing State, County or Municipal authority;

(iv) continued groundwater monitoring in accordance with the SMP until the Department determines that such monitoring is unnecessary;

(v) installation and maintenance in accordance with the standards and procedures specified in the SMP of subslab depressurization ("SSD") systems for all buildings and building additions to be constructed on the Site and the continued operation and maintenance in accordance with the SMP of those SSD systems already installed on the Site;

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C734103

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 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 David R. Norcross (print name) at 333 W. Washington Street, Suite 600, (print business address) Syracuse, NY 13202

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

Date 5/8/2012

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 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 RORY WOODMANSEE at 499 COL. EILEEN COLLINS BLVD.
print name print business address SYRACUSE, NY 13212

am certifying as a Qualified Environmental Professional for the OWNER
(Owner or Remedial Party)

Rory Woodmansee
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

5/8/2012
Date