PRELIMINARY SITE CHARACTERIZATION REPORT FOR THE FORMER JAMESTOWN MANUFACTURED GAS PLANT SITE (NYSDEC SITE # 907036) JAMESTOWN, CHAUTAUQUA COUNTY, NEW YORK

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JULY 2017

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ACRONYMS

bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Accreditation Program
ft.	feet/foot
IDW	Investigation-Derived Waste
MGP	Manufactured Gas Plant MGP
NAD	North American Datum
NAVD	North American Vertical Datum
NELAP	National Environmental Laboratory Approval Program
NYCRR	New York State Codes, Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
SCO	Soil Cleanup Objective
SPT	Standard Penetration Test
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

SECTION 1

INTRODUCTION

This Site Characterization Report documents results from the preliminary investigation work conducted at former Jamestown Manufactured Gas Plant (MGP) located in Jamestown, Chautauqua County, New York. The site characterization field work was conducted during the Summer and Fall of 2013, with supplemental field work completed during the Fall of 2015 by Parsons under contract with the New York State Department of Environmental Conservation (NYSDEC). Sampling and analyses were conducted pursuant to a work scope accepted in advance by the NYSDEC (Parsons, 2013 and 2015). Data obtained during the preliminary and supplemental site characterization have been compiled, evaluated, and summarized in this report.

SECTION 2

PROJECT BACKGROUND AND OBJECTIVES

The former Jamestown MGP site is located in the City of Jamestown, NY on a 1.0 acre parcel currently owned by the adjacent local woodworking facility and is being used as an access and parking area for the business. Current site features include a gravel parking lot bordered by vegetated areas. Surrounding the site are East First Street and residences to the north and east, businesses to the west, and the Chadakoin River and a railroad track to the south. The NYSDEC site number is 907036. A site location map is included as Figure 1.

The former Jamestown Gas Works operated as a water gas plant from 1881 until 1900 or 1901 when an explosion destroyed structures at the site. According to historical maps and documents, there were two large tanks and several small structures at the site. The two tanks were identified as gas holding tanks. The structures consisted of a water gas house, a purifying house, and a few sheds. Historical figures and maps are included as Appendix A to this report.

The primary contaminant of concern at this time has been identified as coal tar. Soil and groundwater contaminants usually associated with coal tar include benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs). The gas purification process also produced a solid waste called “purifier waste” which is a bluish-green solid waste consisting of wood chips and tars that has a strong odor.

The purpose of the site characterization was to determine the locations of former structures at the site, to determine if surface soils present an exposure hazard to humans or wildlife, to determine if contamination is significant in subsurface soils, and determine if groundwater is being significantly impacted.

The supplemental field investigation focused on the central gas holder as a source of coal tar contamination, and attempted to evaluate if potential contamination from the site posed an environmental threat primarily to the Chadakoin River.

SECTION 3

SITE CHARACTERIZATION SCOPE AND RESULTS

Parsons' findings from the preliminary and supplemental investigations are described in the following sections. Each portion of the investigation work followed NYSDEC guidelines outlined in the Division of Environmental Remediation, Ch. 10 (DER-10) (NYSDEC, 2010).

3.1 2013 INVESTIGATION

The scope of the 2013 preliminary investigation consisted of:

1. Geophysical investigation to locate the remains of historical MGP structures
2. Test pit investigation to locate/confirm historic MGP structures
3. Subsurface soil investigation
4. Monitoring well installation and groundwater sampling
5. Surface soil sampling in the parking area and surrounding vegetated areas
6. Topographic survey of the site and sample locations

Field activities were conducted in accordance with the Quality Assurance Project Plan (Parsons and OBG, 2011a) and the Health and Safety Plan (Parsons and OBG, 2011b) prepared and approved for Parsons' contract with NYSDEC. Site-specific elements and specific job safety analyses for test pitting, soil sampling, and monitoring well installation were added to the Health and Safety Plan. A site sampling plan displaying the sampling and test pit locations investigated during the 2013 and 2015 effort is provided as Figure 2. A figure combining the 2013 and 2015 subsurface visual and olfactory observation coded target maps is provided as Figure 3 to summarize the general findings of the site characterization. In addition, Figure 4 illustrates all locations identified with the observation of MGP impacts category "purifier waste and odor", combined for 2013 and 2015 sampling events.

Results of the 2013 site characterization indicate the following:

1. Evidence of some MGP buildings were found during test pit excavations. Notably, the wall and bottom of the northwest gas holder. Possible demolition debris and/or portions of former structures were observed in the vicinity of the former gas purifying house and coal shed located in the south east corner of the site.
2. Suspected MGP impacts generally were noted at all boring and monitoring well locations except for location JT-MW-02. Coal tar coated material and blebs were observed at locations JT-SB-01, JT-SB-02, JT-SB-04, and JT-MW-05.

3. Possible purifier waste was visually observed at location JT-SB-01 and JT-SB-03 (Figure 4), however these locations were not near the suspected purifier house and no strong purifier waste odors were noted on the boring logs. Suspected purifier waste was also encountered in fill from TP-5, located within the footprint of the former purifier house structure.
4. BTEX contamination of subsurface soils was generally observed within historic MGP structures (JT-SB-01, JT-SB-02, JT-SB-03) or immediately adjacent to them (JT-MW-03 and JT-MW-05). BTEX concentrations were above unrestricted soil cleanup objectives (SCOs) from Part 375 in Title 6 of the New York Code of Rules and Regulations (known as 6 New York State Codes, Rules and Regulations (NYCRR) Part 375) (NYSDEC, 2006), but below the commercial land use SCO.
5. Subsurface soil analytical results for locations in the center of the property (JT-SB-02, JT-SB-03, and JT-SB-04) and far southeastern corner of the property (JT-SB-05 and JT-MW-05) contain PAH compounds consistent with MGP site contaminants. Several concentrations of PAH compounds exceed the 6 NYCRR Part 375 SCO for commercial and/or industrial use.
6. Groundwater analytical results from wells located downgradient of the suspected MGP gas holders and adjacent to the suspected purifier house location indicate the presence of BTEX and PAH compounds above New York State (NYS) groundwater quality standards.
7. Elevated concentration of metals (including mercury) and/or pesticides were also observed in both soils and groundwater throughout the site.
8. Surface soils adjacent to one of the suspected gas holders (JT-SS-04) contain elevated PAH compounds consistent with coal tar contamination. Elevated metals concentrations were also observed at all locations with the exception of JT-SS-05.

3.2 2015 INVESTIGATION

The scope of the 2015 supplemental investigation consisted of:

1. Additional test pit investigation to locate the central gas holder
2. Additional subsurface soil investigation

Field activities were conducted in accordance with the Quality Assurance Project Plan (Parsons and OBG, 2011a) prepared and approved for Parsons' contract with NYSDEC. Site-specific elements and specific job safety analyses for test pitting and soil sampling were included in the revised Health and Safety Plan. A site sampling plan displaying the sampling and test pit location for the 2015 supplemental work is included in Figure 2. Additionally, a subsurface visual and olfactory observation coded target map is provided as Figure 3 to summarize the general findings of the site characterization, with a summary of MGP impact category "purifier waste and odor" illustrated in Figure 4.

Results of the 2015 site characterization indicate the following:

1. No central gas holder structure was identified during test pit excavation.
2. Suspected MGP impacts generally were noted at soil boring locations JT-SB-08, JT-SB-09, JT-SB-11, JT-SB-12, and JT-SB-14. Weathered product coated material and blebs were observed at all the above noted locations except JT-SB-14.
3. Possible purifier waste was visually observed at location JT-SB-12, adjacent to the test pit area (TP-06) where purifier waste was also noted (Figure 4). This location is not near the suspected purifier house, however it is situated just east of location JT-SB-03 which was completed as part of the 2013 site work, recording possible purifier waste within its boring, having no odor present. Some odor was detected at JT-SB-12.
4. BTEX contamination of subsurface soils was observed at three of the ten locations (JT-SB-08, JT-SB-11, and JT-SB-14). Detected BTEX concentrations in the shallow sample interval at each of the three locations were reported above 6 NYCRR Part 375 unrestricted soil cleanup objectives, but below commercial and industrial use objectives .
5. Subsurface soil analytical results for five of the ten locations (JT-SB-08, JT-SB-11, JT-SB-12, JT-SB-13, and JT-SB, 14) contain PAH compounds in exceedance of the 6 NYCRR Part 375 unrestricted SCOs. Of those, three locations (JT-SB-08, JT-SB-11 and JT-SB-14) report PAH compound concentrations above industrial use SCOs.

3.3 ANALYTICAL SERVICES AND DATA VALIDATION

Analytical services for water, soil, and waste samples were provided by Spectrum Analytical of Warwick, Rhode Island. Spectrum is accredited under the National Environmental Laboratory Approval Program (NELAP) and Department of Defense Environmental Laboratory Accreditation Program (ELAP), and is a New York State Department of Health (NYSDOH) ELAP-certified laboratory (Lab ID 11522). A United States Environmental Protection Agency (USEPA) Level IV data validation was conducted on 10 percent of the chemical samples (i.e., full data validation) and a USEPA Level III data validation was conducted on the remaining 90 percent of the samples, as described in the Data Usability Summary Reports (DUSR), which is provided in Appendix B.

3.4 GEOPHYSICAL INVESTIGATION AND TOPOGRAPHIC SURVEY

A geophysical survey was performed at the site to locate subsurface utility lines and also attempt to locate remains of former MGP structures (e.g., the gas holders, foundations of structures, etc.) identified in historical Sanborn figures. A combination of electrical tracing, magnetic techniques, and ground penetrating radar was used at the site to complete the investigation. Additionally, in 2013 the building owners and maintenance personnel allowed Parsons and subcontractor personnel into the buildings to trace service lines into the building back through the investigation area. Several utility lines were noted in the investigation area, but no evidence of the former gas holders or MGP structures were detected during the geophysical investigation.

Upon completion of the geophysical survey, representatives from the Jamestown Department of Public Works, sewer, and water departments were contacted and confirmed that all public utilities had been marked out during the geophysical survey. Utilities found on-site were limited to a 3 inch gas line running along the south side of the site, several sewer lines near the building, and three utility lines (i.e., sewer line, fiber optic line, gas main) along the road at the east end of the site. Brief field reports detailing results of the geophysical investigation from 2013 and 2015 are included as Appendix C of this report.

Following the geophysical investigation and mark out of investigation sampling locations in 2013, a site topographical survey was completed for the approximately 1 acre investigation area by a subcontracted licensed surveyor. The site survey also recorded geophysical mark-outs, as-built sample coordinates, and the as-built monitoring well elevations. In 2015 a licensed surveyor was subcontracted to layout proposal sample locations. Horizontal survey data was based on the North American Datum (NAD) 83 New York State Plane (Central Zone) coordinate system (in feet). Elevations were based on the North American Vertical Datum (NAVD) 88. Site survey information from the 2013 field effort is included in Appendix D.

3.5 TEST PIT INVESTIGATION

3.5.1 2013 Test Pitting

As shown in the sampling plan on Figure 2, five tests pits (TP-01 to TP-05) were completed in 2013 to visually identify potential contamination from former operations in areas of former plant structures. Test pits were dug by excavator on June 24th and 25th, 2013 and test pit observations are summarized below:

- TP-01 was completed to a depth of 7 feet (ft.) below ground surface (bgs), finding a brick floor and curved wall at a depth of 1.5 ft. Soil above the brick floor is black medium to coarse sand with approximately 40 percent other fill materials (e.g., bricks, wood, etc.). Soil outside of the curved wall to a 7 ft. depth is gray and tan medium sand. Slight hydrocarbon odors were encountered at 7 ft. bgs. It was assumed that the curved brick structure was part of one of the original gas holders.
- TP-02 and TP-03 were both completed to a depth of 1.5 ft. bgs, where a hard concrete slab was encountered. It appears that the concrete slab extends throughout the center of the site.
- TP-04 was completed to a depth of 7 ft. bgs. Soil consisted of brown silt with gravel to boulder size rock. The water table was encountered at approximately 5 ft. bgs. Black material with slight hydrocarbon odor was noted at the water table.
- TP-05 was completed to a depth of 8.5 ft bgs. Soil consisted of black silt with a high percentage of brick debris. Suspected purifier waste was observed within the fill material from this test pit. Below 3 ft. bgs, multiple intact brick structures were encountered. Based on historical Sanborn figures of the MGP site, the brick structures are located in the vicinity of the former coal shed and gas purifying house.

3.5.2 2015 Test Pitting

Also shown in the sampling plan on Figure 2, one additional test pit (TP-06) was completed in 2015 to delineate the location of the central gas holder. The test pit was dug with an excavator on October 27th, 2015. Test pit TP-06 was excavated to a depth of approximately 6 ft. where an unknown hard surface was encountered. Soil consisted of gray brown and dark brown medium to coarse sand and fill material (including metal, brick, wood, and slag) with gravel and large cobbles. Groundwater was encountered around 2 ft. bgs with an observed sheen. A large piece of purifier waste was removed with fill, and a slight odor was detected in material removed from the top half of the test pit excavation. Since the test pit could not be advanced beyond the hard surface and the obstruction was not visible due to water infiltration, area was backfilled.

3.6 SUBSURFACE INVESTIGATION

3.6.1 2013 Soil Borings

As shown on Figure 2, five soil borings were advanced inside of suspected historical structures to determine if coal tar was present under the structures and if so, the vertical extent of the contamination. Continuous Standard Penetration Test (SPT) samples were collected to terminal depths at 2 ft. intervals using a split spoon sampler. Soil from each sample was evaluated for lithology and field headspace was screened using a photoionization detector (PID). Samples were examined visually in the field and physically described using the Burmister soil classification system.

Two soil samples from each boring location were collected and submitted for chemical analyses; one sample collected from the zone with a high PID reading or greatest visual impact from the boring, and one sample from near the base of the boring. Due to sample volume requirements and low recovery, the sample interval with the highest PID reading was not always submitted. In addition, a 3-inch split spoon was also used to increase sample volume at some locations. Intervals submitted for laboratory analysis and use of the 3-inch split spoon is noted on boring logs included as Appendix E.

Sampled soils were analyzed for volatile organic carbon (VOCs), semi-volatile organic carbon (SVOCs), cyanide, target analyte list (TAL) metals, herbicides, pesticides, polychlorinated biphenyls (PCB), and chromium III and VI. The analytical program utilized the data quality objectives and quality assurance objectives as described in Section 3.3.

A summary of the validated laboratory analytical results is included in Table 1. Figure 5 summarizes exceedances of the 6 NYCRR Part 375 SCOs. Low level BTEX compound contamination above the 6 NYCRR Part 375 unrestricted use SCOs was observed at locations JT-SB-01 and JT-SB-03 within the suspected gas holders. PAH compounds associated with coal tar contamination at all soil boring locations (JT-SB-01 through JT-SB-05) also exceed 6 NYCRR Part 375 unrestricted use SCOs with several exceeding the commercial and/or industrial use SCOs. Exceedances of the 6 NYCRR Part 375 SCOs for metals (including mercury) and/or pesticides was also observed at all sample locations.

Visual and olfactory observations consistent with NYSDEC standard guidance for reporting MGP impacts are also included on Figure 5. Coal tar, staining, and odors were noted in boring logs for JT-SB-02 and JT-SB-04 which correspond with higher concentrations of PAH compounds at those locations. Possible purifier wastes were noted at JT-SB-01 through JT-SB-03. No coal tar or purifier waste was visually observed at JT-SB-05, but odors and sheens were noted in recovered samples.

3.6.2 2015 Soil Borings

As shown on Figure 2, ten additional soil borings were advanced at the site to further delineate the horizontal extent of potential contamination towards the Chadakoin River. Borings were advanced in the same manner as the 2013 investigation described above in Section 3.6.1.

Similar to the 2013 investigation, two soil samples from each boring location were collected and submitted for chemical analyses; one sample collected from the zone with the highest PID reading or greatest visual impact in the boring, and one sample from near the bottom of the boring.

At locations JT-SB-08 and JT-SB-12, there was not enough sample volume recovered for laboratory analysis at the sample intervals with the highest PID reading. Soils from the sample intervals with the next highest readings were submitted for laboratory analysis at these two locations. Intervals submitted for laboratory analysis are noted on boring logs included as Appendix E.

Sampled soils were analyzed for VOCs, SVOCs, and cyanide. The analytical program utilized the data quality objectives and quality assurance objectives as described in Section 3.3. A summary of the validated laboratory analytical results is provided in Table 2. Figure 6 summarizes exceedances of the 6 NYCRR Part 375 SCOs.

Six of the twenty subsurface soil samples resulted in one or more VOC exceedance of unrestricted use SCOs, without any concentrations exceeding the standards for commercial or industrial use. Six of the twenty subsurface soil samples resulted in one or more SVOC exceedance of unrestricted use SCOs, with concentrations in four of those six soil samples also exceeding the standards for commercial and/or industrial use.

Cyanide analysis of the twenty subsurface soil samples resulted in detectable concentrations at seven sample locations (JT-SB-08, 10, 11, 12, and 14), however all concentrations were below soil use cleanup objective standards (6 NYCRR Part 375 SCOs).

Acetone was observed at JT-SB-09 above the unrestricted SCO, this is likely do to a lab introduced contaminate as it what not observed at elevated levels elsewhere on the site.

Visual and olfactory observations consistent with NYSDEC standard guidance for reporting MGP impacts are also included on Figure 6. Similar visual impacts including product coated material, blebs, sheen, staining, and odor were noted at JT-SB-08 and JT-SB-11 which generally correspond to the higher VOC and SVOCs concentrations detected and the greatest SCO

exceedances at these locations. Possible purifier waste was observed at JT-SB-12, with visual signs of blebs and sheen noted at JT-SB-12 and JT-SB-09, both centrally located near the suspected central gas holder. Sheen and odor were noted at JT-SB-14 near the sample interval with the highest PAH compound concentrations.

3.6.3 Well Installation (2013)

As shown on Figure 2, five overburden monitoring wells were also installed to assess groundwater impacts from the former MGP. Monitoring well locations were selected downgradient of historic structure locations to provide groundwater gradient information. The borings for the monitoring wells were advanced and sampled as described in Sections 3.6.1 and 3.6.2. The analytical program utilized the data quality objectives and quality assurance objectives as described in Section 3.3.

A summary of the validated laboratory soil analytical results is included in Table 1. Exceedances of the 6 NYCRR Part 375 SCOs are shown on Figure 5. BTEX exceedances of the unrestricted use soil cleanup objectives were observed at JT-MW-03 and JT-MW-05. PAH exceedances of the 6 NYCRR Part 375 unrestricted use soil cleanup objectives were also noted at JT-MW-05 along with the visual presence of coal tar. Several PAH concentrations in soils at JT-MW-05 exceed the 6 NYCRR Part 375 commercial land use soil cleanup objectives for benzo(a) anthracene and dibenz(a,h)anthracene and the industrial land use soil cleanup objectives for benzo(a)pyrene and benzo(a)fluoranthene. Metal exceedances of the 6 NYCRR Part 375 unrestricted use soil cleanup objectives for lead and mercury were noted in soils at JT-MW-03 and an exceedance of the industrial use SCO for arsenic was noted in soil at JT-MW-02. Two pesticide compounds (P,P'-DDE and P,P'-DDT) were observed in soil at JT-MW-05.

Visual and olfactory observations consistent with NYSDEC standard guidance for reporting MGP impacts are included on Figure 5. Coal tar odor and staining was noted at all monitoring well locations with the exception of JT-MW-02. Boring logs and well construction logs are included in Appendix E of this report.

The monitoring wells were constructed of 2-inch PVC casing with 10-ft. long, 10-slot screen. Following installation, the new monitoring wells were developed to remove material which may have settled in and around the well screen. Development consisted of the removal of greater than ten well volumes. Development water was contained using drums and transferred to a central waste accumulation area. Well development logs are included in Appendix F.

3.6.4 Groundwater Sampling and Analysis (2013)

Once well installation and development was complete, the five new monitoring wells were sampled using low flow sampling techniques on July 24th to 25th and November 25th, 2013. Groundwater sample logs are included in Appendix G of this report. Prior to sampling, water levels were collected at each location. Water levels were converted to elevations and plotted to determine groundwater contours and flow direction. Figures 7 and 8 depict groundwater contours and flow direction for the July and November sampling events, respectively. In general

groundwater movement mirrors the site topography with flow to the southwest toward the Chadakoin River. A confining clay layer was also observed at most soil boring/monitoring well locations during both the 2013 and 2015 investigations. A confining clay layer was not observed with the completion of soil boring locations JT-SB-01, JT-SB-08, JT-SB-09, JT-SB-10, JT-SB-11, JT-SB-12, JT-SB-13, and JT-SB-15. The elevation of the confining layer general dips towards the south (Figure 9). The presence of the confining layer may prevent further vertical migration of contaminants from the overburden material.

Groundwater samples were analyzed for VOCs, SVOCs, pesticides, PCBs, metals, and cyanide. The analytical program utilized the data quality objectives and quality assurance objectives described in Section 3.3.

Groundwater analytical results were compared to NYS groundwater quality standards and guidance values (Figure 10). A summary of validated results for detected compounds in groundwater is included in Table 3. BTEX compounds were found in exceedance of NYS groundwater quality standards downgradient of the suspected gas holders (JT-MW-01 and JT-MW-03) and adjacent to the suspected purifier house location (JT-MW-05). Elevated PAH compounds consistent with coal tar contamination was also observed at JT-MW-01 and JT-MW-05.

Other VOC compounds not necessarily associated with coal tar contamination also exceeded NYS groundwater quality standards at JT-MW-01 and JT-MW-04. Elevated concentrations of two SVOCs (2-methylphenol and 4-methylphenol) and one pesticide compound (alpha BHC) were observed at JT-MW-05. Exceedances of groundwater quality standards for several metals were observed at all groundwater sample locations.

3.7 SURFACE SOIL INVESTIGATION (2013)

As shown in Figure 11, five surface soil samples (Sample ID's JT-SS-01 to JT-SS-05) were collected on July 2nd and 3rd, 2013 to determine if surface soils provide an exposure hazard to humans or wildlife. Shallow soil samples were collected to a depth of 6 inches using a dedicated plastic scoop. Minor clearing of vegetation was required to access some sample locations. To the extent practical, efforts were made to minimize disturbance to the soils during clearing efforts.

Sampled soils were analyzed for VOCs, SVOCs, cyanide, TAL metals, herbicides and pesticides, PCBs, chromium III and VI, and moisture content. Analytical results were compared to 6 NYCRR Part 375 soil cleanup objectives for unrestricted use. The analytical program utilized the data quality objectives and quality assurance objectives as described in Section 3.3.

A summary of the validated surface soil sample results is included in Table 4. Exceedances of the New York State soil cleanup objectives for 6 NYCRR Part 375 unrestricted use SCOs are shown on Figure 11. Several PAH exceedances of the soil cleanup objective for unrestricted use were observed in the center of the site near a suspected gas holder (JT-SS-04) location. The concentration of benzo(a)pyrene exceeded the industrial use SCO at this location.

3.8 WASTE CHARACTERIZATION

Investigation-derived waste (IDW), including excess soils, well development water, purge water, and personal protective equipment, were placed in Department of Transportation-approved 55-gallon 17-H type drums. The IDW was evaluated as non-hazardous based on characterization results and was disposed of in accordance with applicable NYSDEC regulations.

SECTION 4

REFERENCES

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TABLES

Table 1
Jamestown Former MGP SIte
2013 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data Deleted Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID:	JT-MW-01	JT-MW-01	JT-MW-02	JT-MW-02	JT-MW-03	JT-MW-03	Dup of JT-MW-03_32.0-32.5 JT-MW-03
					Sample ID:	JT-MW-01_8.0-8.5	JT-MW-01_13.0-13.5	JT-MW-02_14.0-14.5	JT-MW-02_24.0-24.5	JT-MW-03_12.0-12.5	JT-MW-03_32.0-32.5	JT-MW-03_32.0-32.5DUP
					Depth Interval:	7-9	13-15	13-15	23-25	11-13	31-33	31-33
					Lab Sample Id:	M1160-05	M1160-06	M1160-07	M1160-08	M1160-09	M1160-10	M1160-11
					Source:	MITKEM	MITKEM	MITKEM	MITKEM	MITKEM	MITKEM	MITKEM
					SDG:	M1160	M1160	M1160	M1160	M1160	M1160	M1160
					Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Sampled:	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/11/2013	7/11/2013	7/11/2013 12:30
					Validated:	9/3/2013	9/3/2013	9/3/2013	9/3/2013	9/3/2013	9/3/2013	4/1/2014
CAS NO.	COMPOUND				UNITS:							
	VOLATILES											
95-63-6	1,2,4-TRIMETHYLBENZENE	3.6	190	380	mg/Kg	0.016	ND	ND	ND	0.093 J	ND	ND
108-67-8	1,3,5-TRIMETHYLBENZENE	8.4	190	380	mg/Kg	0.0084	ND	ND	ND	ND	ND	ND
67-64-1	ACETONE	0.05	500	1000	mg/Kg	0.017	0.012	ND	ND	ND	ND	0.0022 J
71-43-2	BENZENE	0.06	44	89	mg/Kg	0.0088	0.0044	ND	ND	0.81	0.0043 J	0.0023 J
75-15-0	CARBON DISULFIDE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	0.0081 J	0.0066 J
156-59-2	CIS-1,2-DICHLOROETHYLENE	0.25	500	1000	mg/Kg	ND	0.0027 J	ND	ND	ND	ND	ND
99-87-6	CYMENE	NS	NS	NS	mg/Kg	0.0013 J	ND	ND	ND	ND	ND	ND
1330-20-7	DIMETHYL BENZENE	0.26	500	100	mg/Kg	0.011	ND	ND	ND	0.23	0.0019 J	ND
100-41-4	ETHYLBENZENE	1	390	780	mg/Kg	0.0095	0.0018 J	ND	ND	0.095 J	0.0025 J	ND
74-88-4	IODOMETHANE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND
98-82-8	ISOPROPYLBENZENE	NS	NS	NS	mg/Kg	0.0014 J	ND	ND	ND	ND	ND	ND
78-93-3	METHYL ETHYL KETONE	0.12	500	1000	mg/Kg	0.0031 J	ND	ND	ND	ND	ND	ND
75-09-2	METHYLENE CHLORIDE	0.05	500	1000	mg/Kg	0.0076	0.012	ND	ND	ND	ND	ND
104-51-8	N-BUTYLBENZENE	12	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND
103-65-1	N-PROPYLBENZENE	3.9	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND
135-98-8	SEC-BUTYLBENZENE	11	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND
100-42-5	STYRENE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	0.072 J	ND	ND
127-18-4	TETRACHLOROETHYLENE	1.3	150	300	mg/Kg	ND	0.00097 J	ND	ND	ND	ND	ND
108-88-3	TOLUENE	0.7	500	1000	mg/Kg	0.0012 J	ND	ND	ND	0.29	ND	ND
79-01-6	TRICHLOROETHYLENE	0.47	200	400	mg/Kg	ND	0.0011 J	ND	ND	ND	ND	ND
179601-23-1	m,p-Xylene	0.26	500	1000	mg/Kg	0.0082	ND	ND	ND	0.25	0.0019 J	ND
95-47-6	O-XYLENE	0.26	500	1000	mg/Kg	0.0031 J	ND	ND	ND	0.066 J	ND	ND
	XYLENES, TOTAL	0.26	500	1000	mg/Kg	0.0113	ND	ND	ND	0.316	0.0019	ND
	SEMIVOLATILES											
91-57-6	2-METHYLNAPHTHALENE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND
95-48-7	2-METHYLPHENOL	0.33	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND
106-44-5	4-METHYLPHENOL	0.33	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND
83-32-9	ACENAPHTHENE	20	500	1000	mg/Kg	ND	ND	ND	ND	1.3	ND	ND
208-96-8	ACENAPHTHYLENE	100	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND
120-12-7	ANTHRACENE	100	500	1000	mg/Kg	ND	ND	0.081 J	ND	0.25 J	ND	ND
56-55-3	BENZO(A)ANTHRACENE	1	5.6	11	mg/Kg	ND	0.14 J	0.21 J	ND	0.23 J	ND	ND
50-32-8	BENZO(A)PYRENE	1	1	1.1	mg/Kg	ND	ND	0.15 J	ND	0.42	ND	ND
205-99-2	BENZO(B)FLUORANTHENE	1	1	5.6	mg/Kg	ND	0.11 J	0.22 J	ND	0.34 J	ND	ND
191-24-2	BENZO(G,H,I)PERYLENE	100	500	1000	mg/Kg	ND	ND	ND	ND	0.69	ND	ND
207-08-9	BENZO(K)FLUORANTHENE	0.8	56	110	mg/Kg	ND	ND	0.096 J	ND	0.14 J	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALAT	NS	NS	NS	mg/Kg	ND	ND	0.084 J	ND	ND	ND	ND
86-74-8	CARBAZOLE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND
218-01-9	CHRYSENE	1	56	110	mg/Kg	ND	0.12 J	0.23 J	ND	0.24 J	ND	ND
53-70-3	DIBENZ(A,H)ANTHRACENE	0.33	0.56	1.1	mg/Kg	ND	ND	ND	ND	ND	ND	ND
132-64-9	DIBENZOFURAN	7	350	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND
84-74-2	DI-N-BUTYL PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND
206-44-0	FLUORANTHENE	100	500	1000	mg/Kg	ND	0.17 J	0.39	ND	0.79	ND	ND
86-73-7	FLUORENE	30	500	1000	mg/Kg	ND	ND	ND	ND	0.25 J	ND	ND
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	5.6	11	mg/Kg	ND	ND	ND	ND	0.33 J	ND	ND
91-20-3	NAPHTHALENE	12	500	1000	mg/Kg	2.3	0.3 J	ND	ND	0.49	ND	ND
85-01-8	PHENANTHRENE	100	500	1000	mg/Kg	ND	0.12 J	0.29 J	ND	1.5	ND	ND
129-00-0	PYRENE	100	500	1000	mg/Kg	ND	0.18 J	0.39 J	ND	1.9	ND	ND

- Exceeds the Unrestricted SCO
- Exceeds the Commercial SCO
- Exceeds the Industrial SCO

J - Estimated Result
ND - Not Detected
NS - No Standard
R - Rejected Result

Table 1
Jamestown Former MGP SIte
2013 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data Deleted Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID:	JT-MW-01	JT-MW-01	JT-MW-02	JT-MW-02	JT-MW-03	JT-MW-03	Dup of JT-MW-03_32.0-32.5 JT-MW-03
					Sample ID:	JT-MW-01_8.0-8.5	JT-MW-01_13.0-13.5	JT-MW-02_14.0-14.5	JT-MW-02_24.0-24.5	JT-MW-03_12.0-12.5	JT-MW-03_32.0-32.5	JT-MW-03_32.0-32.5DUP
					Depth Interval:	7-9	13-15	13-15	23-25	11-13	31-33	31-33
					Lab Sample Id:	M1160-05	M1160-06	M1160-07	M1160-08	M1160-09	M1160-10	M1160-11
					Source:	MITKEM	MITKEM	MITKEM	MITKEM	MITKEM	MITKEM	MITKEM
					SDG:	M1160	M1160	M1160	M1160	M1160	M1160	M1160
					Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Sampled:	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/11/2013	7/11/2013	7/11/2013 12:30
					Validated:	9/3/2013	9/3/2013	9/3/2013	9/3/2013	9/3/2013	9/3/2013	4/1/2014
CAS NO.	COMPOUND				UNITS:							
	PESTICIDES											
309-00-2	ALDRIN	0.005	0.68	1.4	mg/Kg	ND		ND		ND		
319-84-6	ALPHA BHC	0.02	3.4	6.8	mg/Kg	ND		ND		ND		
5103-71-9	ALPHA-CHLORDANE	0.094	24	47	mg/Kg	ND		ND		ND		
319-85-7	BETA BHC	0.036	3	14	mg/Kg	ND		ND		ND		
5103-74-2	BETA-CHLORDANE	NS	NS	NS	mg/Kg	ND		ND		ND		
319-86-8	DELTA BHC	0.04	500	1000	mg/Kg	ND		ND		ND		
1031-07-8	ENDOSULFAN SULFATE	2.4	200	920	mg/Kg	ND		ND		ND		
7421-93-4	ENDRIN ALDEHYDE	NS	NS	NS	mg/Kg	ND		ND		ND		
53494-70-5	ENDRIN KETONE	NS	NS	NS	mg/Kg	ND		ND		ND		
58-89-9	GAMMA BHC (LINDANE)	0.1	9.2	23	mg/Kg	ND		ND		ND		
76-44-8	HEPTACHLOR	0.042	15	29	mg/Kg	ND		ND		ND		
72-43-5	METHOXYCHLOR	NS	NS	NS	mg/Kg	ND		ND		ND		
72-54-8	P,P'-DDD	0.0033	92	180	mg/Kg	ND		ND		ND		
72-55-9	P,P'-DDE	0.0033	62	120	mg/Kg	ND		ND		ND		
50-29-3	P,P'-DDT	0.0033	47	94	mg/Kg	ND		ND		ND		
	INORGANICS											
7429-90-5	ALUMINUM	NS	NS	NS	mg/Kg	17400		13900		10300		
7440-36-0	ANTIMONY	NS	NS	NS	mg/Kg	ND		0.49 J		ND		
7440-38-2	ARSENIC	13	16	16	mg/Kg	9.8		24.7		8.2		
7440-39-3	BARIUM	350	400	10000	mg/Kg	123		199		118		
7440-41-7	BERYLLIUM	7.2	590	2700	mg/Kg	0.51		0.98		0.4		
7440-43-9	CADMIUM	2.5	9.3	60	mg/Kg	0.23 J		0.25 J		0.26		
7440-70-2	CALCIUM	NS	NS	NS	mg/Kg	2600		28200		21200		
16065-83-1	CHROMIUM III	30	1500	6800	mg/Kg	16		16		12		
7440-47-3	CHROMIUM, TOTAL	NS	NS	NS	mg/Kg	16.1		15.9		12		
7440-48-4	COBALT	NS	NS	NS	mg/Kg	10.2		8		7.6		
7440-50-8	COPPER	50	270	10000	mg/Kg	18.6		48.4		27.7		
7439-89-6	IRON	NS	NS	NS	mg/Kg	23200		21500		18700		
7439-92-1	LEAD	63	1000	3900	mg/Kg	29.8		44.8		107		
7439-95-4	MAGNESIUM	NS	NS	NS	mg/Kg	2800		4630		7240		
7439-96-5	MANGANESE	1600	10000	10000	mg/Kg	469		1430		337		
7439-97-6	MERCURY	0.18	2.8	5.7	mg/Kg	0.087		0.14		0.87		
7440-02-0	NICKEL	30	310	10000	mg/Kg	16.1		19		15.7		
7440-09-7	POTASSIUM	NS	NS	NS	mg/Kg	926		1030		901		
7782-49-2	SELENIUM	3.9	1500	6800	mg/Kg	ND		ND		ND		
7440-22-4	SILVER	2	1500	6800	mg/Kg	ND		ND		ND		
7440-23-5	SODIUM	NS	NS	NS	mg/Kg	311		370		216		
7440-28-0	THALLIUM	NS	NS	NS	mg/Kg	ND		ND		ND		
7440-62-2	VANADIUM	NS	NS	NS	mg/Kg	27.4		19.8		15.8		
7440-66-6	ZINC	109	10000	10000	mg/Kg	78.5		73.4		84.3		
57-12-5	CYANIDE	27	27	10000	mg/Kg	ND	ND	ND	ND	ND	ND	
	OTHER											
MOIST	MOISTURE, PERCENT	NS	NS	NS	%	27	21	17	24	13	18	20

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Table 1
Jamestown Former MGP SIte
2013 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data Deleted Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID:	JT-MW-04	JT-MW-04	JT-MW-05	JT-MW-05	Dup of JT-MW-05_23.0-23.5 JT-MW-05	JT-SB-01	JT-SB-01
					Sample ID:	JT-MW-04_6.0-6.5	JT-MW-04_22.0-22.5	JT-MW-05_10.0-10.5	JT-MW-05_23.0-23.5	JT-MW-05_23.0-23.5DUP	JT-SB-01-5.0-5.5	JT-SB-01-11.0-11.5
					Depth Interval:	5-7	21-23	9-11	23-25	23-25	4-6	10-12
					Lab Sample Id:	M1160-03	M1160-04	M1160-12	M1160-14	M1160-13	M1061-02	M1061-01
					Source:	MITKEM	MITKEM	MITKEM	MITKEM	MITKEM	MITKEM	MITKEM
					SDG:	M1160	M1160	M1160	M1160	M1160	M1061	M1061
					Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Sampled:	7/8/2013	7/9/2013	7/11/2013	7/12/2013	7/12/2013 7:45	6/25/2013	6/25/2013
					Validated:	9/3/2013	9/3/2013	9/3/2013	9/3/2013	4/1/2014	9/3/2013	9/3/2013
CAS NO.	COMPOUND				UNITS:							
	VOLATILES											
95-63-6	1,2,4-TRIMETHYLBENZENE	3.6	190	380	mg/Kg	ND	ND	6.6 J	0.14 J	0.65 J	0.36 J	3.9
108-67-8	1,3,5-TRIMETHYLBENZENE	8.4	190	380	mg/Kg	ND	ND	2.7 J	0.062 J	0.3 J	0.16 J	1.2 J
67-64-1	ACETONE	0.05	500	1000	mg/Kg	0.0036 J	ND	ND	ND	ND	R	R
71-43-2	BENZENE	0.06	44	89	mg/Kg	ND	ND	ND	ND	ND	0.18 J	1.5 J
75-15-0	CARBON DISULFIDE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND
156-59-2	CIS-1,2-DICHLOROETHYLENE	0.25	500	1000	mg/Kg	ND	ND	ND	ND	ND	0.042 J	ND
99-87-6	CYMENE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	0.25 J	0.65 J
1330-20-7	DIMETHYL BENZENE	0.26	500	100	mg/Kg	ND	ND	2.7 J	0.036 J	0.14 J	3.9 J	3.9
100-41-4	ETHYLBENZENE	1	390	780	mg/Kg	ND	ND	ND	ND	ND	0.52 J	5.9
74-88-4	IODOMETHANE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	0.26 J	ND
98-82-8	ISOPROPYLBENZENE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	0.094 J	0.48 J
78-93-3	METHYL ETHYL KETONE	0.12	500	1000	mg/Kg	ND	ND	ND	ND	ND	R	R
75-09-2	METHYLENE CHLORIDE	0.05	500	1000	mg/Kg	ND	0.0036 J	ND	ND	ND	ND	ND
104-51-8	N-BUTYLBENZENE	12	500	1000	mg/Kg	ND	ND	ND	ND	ND	0.041 J	ND
103-65-1	N-PROPYLBENZENE	3.9	500	1000	mg/Kg	ND	ND	ND	ND	ND	0.045 J	0.41 J
135-98-8	SEC-BUTYLBENZENE	11	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND
100-42-5	STYRENE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE	1.3	150	300	mg/Kg	0.0056 J	0.0021 J	ND	ND	ND	ND	ND
108-88-3	TOLUENE	0.7	500	1000	mg/Kg	ND	ND	ND	ND	ND	2.9 J	0.86 J
79-01-6	TRICHLOROETHYLENE	0.47	200	400	mg/Kg	0.0011 J	ND	ND	ND	ND	ND	ND
179601-23-1	m,p-Xylene	0.26	500	1000	mg/Kg	ND	ND	3.7 J	0.06 J	0.21 J	3.3 J	2.4 J
95-47-6	O-XYLENE	0.26	500	1000	mg/Kg	ND	ND	ND	ND	ND	0.64 J	1.5 J
	XYLENES, TOTAL	0.26	500	1000	mg/Kg	ND	ND	3.7	0.06	0.21	3.94	3.9
	SEMIVOLATILES											
91-57-6	2-METHYLNAPHTHALENE	NS	NS	NS	mg/Kg	ND	ND	12	0.64	0.49	ND	1.1
95-48-7	2-METHYLPHENOL	0.33	500	1000	mg/Kg	ND	ND	0.08 J	ND	ND	ND	ND
106-44-5	4-METHYLPHENOL	0.33	500	1000	mg/Kg	ND	ND	0.097 J	ND	ND	ND	ND
83-32-9	ACENAPHTHENE	20	500	1000	mg/Kg	ND	ND	18	0.68	0.5	ND	1.8
208-96-8	ACENAPHTHYLENE	100	500	1000	mg/Kg	ND	ND	5.5	0.64	0.47	ND	0.22 J
120-12-7	ANTHRACENE	100	500	1000	mg/Kg	ND	ND	15	1.5	1.1	ND	0.96
56-55-3	BENZO(A)ANTHRACENE	1	5.6	11	mg/Kg	0.18 J	ND	8.5	1.2	0.88	0.23 J	0.85
50-32-8	BENZO(A)PYRENE	1	1	1.1	mg/Kg	0.15 J	ND	5.7	0.85	0.61	0.19 J	1.2
205-99-2	BENZO(B)FLUORANTHENE	1	1	5.6	mg/Kg	0.22 J	ND	6.3	0.99	0.74	0.29 J	1
191-24-2	BENZO(G,H,I)PERYLENE	100	500	1000	mg/Kg	ND	ND	2.9	0.41	0.3 J	0.14 J	1.4
207-08-9	BENZO(K)FLUORANTHENE	0.8	56	110	mg/Kg	ND	ND	2.8	ND	0.3 J	0.14 J	0.38 J
117-81-7	BIS(2-ETHYLHEXYL) PHTHALAT	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	0.089 J	ND
86-74-8	CARBAZOLE	NS	NS	NS	mg/Kg	ND	ND	2.1	0.25 J	0.21 J	ND	ND
218-01-9	CHRYSENE	1	56	110	mg/Kg	0.2 J	ND	7.8	1.1	0.8	0.26 J	0.99
53-70-3	DIBENZ(A,H)ANTHRACENE	0.33	0.56	1.1	mg/Kg	ND	ND	0.68	ND	ND	ND	0.094 J
132-64-9	DIBENZOFURAN	7	350	1000	mg/Kg	ND	ND	13	0.86	0.63	ND	ND
84-74-2	DI-N-BUTYL PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	0.1 J	ND
206-44-0	FLUORANTHENE	100	500	1000	mg/Kg	0.29 J	0.15 J	25	2.7	2	0.4 J	2.6
86-73-7	FLUORENE	30	500	1000	mg/Kg	ND	ND	20	1.4	1	ND	0.63
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	5.6	11	mg/Kg	ND	ND	3.2	0.47	0.32 J	0.14 J	0.81
91-20-3	NAPHTHALENE	12	500	1000	mg/Kg	ND	ND	22	0.95	0.8	ND	7.3
85-01-8	PHENANTHRENE	100	500	1000	mg/Kg	0.22 J	0.15 J	49	4.1	3.2	0.32 J	3.8
129-00-0	PYRENE	100	500	1000	mg/Kg	0.32 J	0.14 J	28	2.9	2.2	0.42 J	5.3 J

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2013 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data Deleted Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Depth Interval: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-04 JT-MW-04_6.0-6.5 5-7 M1160-03 MITKEM M1160 SOIL 7/8/2013 9/3/2013	JT-MW-04 JT-MW-04_22.0-22.5 21-23 M1160-04 MITKEM M1160 SOIL 7/9/2013 9/3/2013	JT-MW-05 JT-MW-05_10.0-10.5 9-11 M1160-12 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-05 JT-MW-05_23.0-23.5 23-25 M1160-14 MITKEM M1160 SOIL 7/12/2013 9/3/2013	Dup of JT-MW-05_23.0-23.5 JT-MW-05 JT-MW-05_23.0-23.5DUP 23-25 M1160-13 MITKEM M1160 SOIL 7/12/2013 7:45 4/1/2014	JT-SB-01 JT-SB-01-5.0-5.5 4-6 M1061-02 MITKEM M1061 SOIL 6/25/2013 9/3/2013	JT-SB-01 JT-SB-01-11.0-11.5 10-12 M1061-01 MITKEM M1061 SOIL 6/25/2013 9/3/2013
CAS NO.	COMPOUND				UNITS:							
	PESTICIDES											
309-00-2	ALDRIN	0.005	0.68	1.4	mg/Kg	ND		0.004 JN				ND
319-84-6	ALPHA BHC	0.02	3.4	6.8	mg/Kg	ND		0.0043 J				ND
5103-71-9	ALPHA-CHLORDANE	0.094	24	47	mg/Kg	ND		0.021 JN				ND
319-85-7	BETA BHC	0.036	3	14	mg/Kg	ND		ND				0.0029 JN
5103-74-2	BETA-CHLORDANE	NS	NS	NS	mg/Kg	ND		0.017 JN				ND
319-86-8	DELTA BHC	0.04	500	1000	mg/Kg	ND		ND				0.0038
1031-07-8	ENDOSULFAN SULFATE	2.4	200	920	mg/Kg	ND		0.014 J				ND
7421-93-4	ENDRIN ALDEHYDE	NS	NS	NS	mg/Kg	0.0099		0.0061 JN				ND
53494-70-5	ENDRIN KETONE	NS	NS	NS	mg/Kg	ND		0.007 JN				ND
58-89-9	GAMMA BHC (LINDANE)	0.1	9.2	23	mg/Kg	ND		0.0043 JN				ND
76-44-8	HEPTACHLOR	0.042	15	29	mg/Kg	ND		ND				0.0023 JN
72-43-5	METHOXYCHLOR	NS	NS	NS	mg/Kg	ND		0.055 J				ND
72-54-8	P,P'-DDD	0.0033	92	180	mg/Kg	ND		ND				0.011
72-55-9	P,P'-DDE	0.0033	62	120	mg/Kg	ND		0.0085 JN				0.005 JN
50-29-3	P,P'-DDT	0.0033	47	94	mg/Kg	ND		0.013 JN				ND
	INORGANICS											
7429-90-5	ALUMINUM	NS	NS	NS	mg/Kg	11600		8900				22500
7440-36-0	ANTIMONY	NS	NS	NS	mg/Kg	ND		ND				0.45 J
7440-38-2	ARSENIC	13	16	16	mg/Kg	10.2		8.1				22
7440-39-3	BARIUM	350	400	10000	mg/Kg	115		62.9				210
7440-41-7	BERYLLIUM	7.2	590	2700	mg/Kg	0.49		0.32				2.6
7440-43-9	CADMIUM	2.5	9.3	60	mg/Kg	0.22		0.18 J				0.3
7440-70-2	CALCIUM	NS	NS	NS	mg/Kg	6830		1660				105000
16065-83-1	CHROMIUM III	30	1500	6800	mg/Kg	14		9.6				5.5
7440-47-3	CHROMIUM, TOTAL	NS	NS	NS	mg/Kg	13.6		9.6				5.5
7440-48-4	COBALT	NS	NS	NS	mg/Kg	10.6		6.1				4.6
7440-50-8	COPPER	50	270	10000	mg/Kg	32.3		24.5				19.6
7439-89-6	IRON	NS	NS	NS	mg/Kg	20300		16300				78800
7439-92-1	LEAD	63	1000	3900	mg/Kg	31.6		19.1				43.5
7439-95-4	MAGNESIUM	NS	NS	NS	mg/Kg	4020		2870				23500
7439-96-5	MANGANESE	1600	10000	10000	mg/Kg	352		288				2170
7439-97-6	MERCURY	0.18	2.8	5.7	mg/Kg	0.076		0.021 J				0.065
7440-02-0	NICKEL	30	310	10000	mg/Kg	20.2		14.2				5.6
7440-09-7	POTASSIUM	NS	NS	NS	mg/Kg	939		564				1440
7782-49-2	SELENIUM	3.9	1500	6800	mg/Kg	ND		ND				ND
7440-22-4	SILVER	2	1500	6800	mg/Kg	ND		ND				0.14 J
7440-23-5	SODIUM	NS	NS	NS	mg/Kg	206		128				807
7440-28-0	THALLIUM	NS	NS	NS	mg/Kg	ND		ND				0.34 J
7440-62-2	VANADIUM	NS	NS	NS	mg/Kg	16		13				11.9
7440-66-6	ZINC	109	10000	10000	mg/Kg	78.1		59.6				35.5
57-12-5	CYANIDE	27	27	10000	mg/Kg	ND	ND	ND	ND		19.9	7.4
	OTHER											
MOIST	MOISTURE, PERCENT	NS	NS	NS	%	21	20	14	13	16	26	26

- Exceeds the Unrestricted SCO
- Exceeds the Commercial SCO
- Exceeds the Industrial SCO

J - Estimated Result
ND - Not Detected
NS - No Standard
R - Rejected Result

Table 1
Jamestown Former MGP SIte
2013 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data Deleted Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Depth Interval: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-02 JT-SB-02_16.0-16.5 15-17 M1085-02 MITKEM M1085 SOIL 7/1/2013 9/3/2013	JT-SB-02 JT-SB-02_32.0-32.5 31-33 M1085-01 MITKEM M1085 SOIL 7/1/2013 9/3/2013	JT-SB-03 JT-SB-03_21.0-21.5 20-22 M1085-05 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-03 JT-SB-03_27.0-27.5 26-28 M1085-04 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_10.0-10.5 9-11 M1085-07 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_31.0-31.5 31-33 M1085-09 MITKEM M1085 SOIL 7/3/2013 9/3/2013	JT-SB-05 JT-SB-05_22.0-22.5 21-23 M1160-01 MITKEM M1160 SOIL 7/8/2013 9/3/2013	JT-SB-05 JT-SB-05_38.0-38.5 37-39 M1160-02 MITKEM M1160 SOIL 7/8/2013 9/3/2013
CAS NO.	COMPOUND				UNITS:								
	VOLATILES												
95-63-6	1,2,4-TRIMETHYLBENZENE	3.6	190	380	mg/Kg	88 J	ND	2.4	ND	200 J	ND	0.5	0.0061
108-67-8	1,3,5-TRIMETHYLBENZENE	8.4	190	380	mg/Kg	ND	ND	1.2 J	ND	ND	ND	0.19 J	0.0069
67-64-1	ACETONE	0.05	500	1000	mg/Kg	ND	R	ND	0.0016 J	ND	0.002 J	ND	0.0036 J
71-43-2	BENZENE	0.06	44	89	mg/Kg	ND	0.0099	0.64 J	ND	ND	ND	ND	ND
75-15-0	CARBON DISULFIDE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
156-59-2	CIS-1,2-DICHLOROETHYLENE	0.25	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
99-87-6	CYMENE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	0.23 J	0.0049
1330-20-7	DIMETHYL BENZENE	0.26	500	100	mg/Kg	ND	ND	5.9	ND	ND	ND	ND	ND
100-41-4	ETHYLBENZENE	1	390	780	mg/Kg	40 J	ND	8.7	ND	ND	ND	ND	ND
74-88-4	IODOMETHANE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
98-82-8	ISOPROPYLBENZENE	NS	NS	NS	mg/Kg	ND	ND	0.44 J	ND	ND	ND	0.097 J	0.0013 J
78-93-3	METHYL ETHYL KETONE	0.12	500	1000	mg/Kg	ND	R	ND	ND	ND	ND	ND	ND
75-09-2	METHYLENE CHLORIDE	0.05	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND	0.029
104-51-8	N-BUTYLBENZENE	12	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	0.46	0.0047
103-65-1	N-PROPYLBENZENE	3.9	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	0.13 J	0.0012 J
135-98-8	SEC-BUTYLBENZENE	11	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	0.12 J	0.0014 J
100-42-5	STYRENE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE	1.3	150	300	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
108-88-3	TOLUENE	0.7	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
79-01-6	TRICHLOROETHYLENE	0.47	200	400	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
179601-23-1	m,p-Xylene	0.26	500	1000	mg/Kg	ND	ND	3.2	ND	ND	ND	ND	ND
95-47-6	O-XYLENE	0.26	500	1000	mg/Kg	ND	ND	2.7	ND	ND	ND	ND	ND
	XYLENES, TOTAL	0.26	500	1000	mg/Kg	ND	ND	5.9	ND	ND	ND	ND	ND
	SEMIVOLATILES												
91-57-6	2-METHYLNAPHTHALENE	NS	NS	NS	mg/Kg	260	ND	0.46	ND	940	ND	ND	0.6
95-48-7	2-METHYLPHENOL	0.33	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
106-44-5	4-METHYLPHENOL	0.33	500	1000	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
83-32-9	ACENAPHTHENE	20	500	1000	mg/Kg	420	ND	0.87	ND	1300	ND	ND	3.2
208-96-8	ACENAPHTHYLENE	100	500	1000	mg/Kg	37 J	ND	ND	ND	700	ND	ND	1.5
120-12-7	ANTHRACENE	100	500	1000	mg/Kg	190	ND	0.83	ND	620	ND	ND	3.6
56-55-3	BENZO(A)ANTHRACENE	1	5.6	11	mg/Kg	98	ND	1.6	ND	370 J	ND	ND	3.7
50-32-8	BENZO(A)PYRENE	1	1	1.1	mg/Kg	120	ND	1.3	ND	470	ND	ND	4.2
205-99-2	BENZO(B)FLUORANTHENE	1	1	5.6	mg/Kg	82 J	ND	1.6	ND	340 J	ND	ND	3.6
191-24-2	BENZO(G,H,I)PERYLENE	100	500	1000	mg/Kg	110	ND	0.79	ND	500	ND	ND	4
207-08-9	BENZO(K)FLUORANTHENE	0.8	56	110	mg/Kg	ND	ND	0.77	ND	ND	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALAT	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
86-74-8	CARBAZOLE	NS	NS	NS	mg/Kg	ND	ND	0.19 J	ND	ND	ND	ND	ND
218-01-9	CHRYSENE	1	56	110	mg/Kg	94	ND	1.7	ND	380 J	ND	ND	3.3
53-70-3	DIBENZ(A,H)ANTHRACENE	0.33	0.56	1.1	mg/Kg	9.5	ND	0.22 J	ND	ND	ND	ND	0.34 J
132-64-9	DIBENZOFURAN	7	350	1000	mg/Kg	ND	ND	0.18 J	ND	30	ND	ND	0.77
84-74-2	DI-N-BUTYL PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	0.16 J	ND	ND	ND	ND
206-44-0	FLUORANTHENE	100	500	1000	mg/Kg	320	ND	3.2	ND	1400	ND	ND	9.6
86-73-7	FLUORENE	30	500	1000	mg/Kg	140	ND	0.52	ND	570	ND	ND	2.5
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	5.6	11	mg/Kg	63 J	ND	0.88	ND	270 J	ND	ND	2.6
91-20-3	NAPHTHALENE	12	500	1000	mg/Kg	820	ND	1.5	0.14 J	4800	ND	ND	0.5
85-01-8	PHENANTHRENE	100	500	1000	mg/Kg	650	ND	3.4	ND	2600	0.1 J	ND	11
129-00-0	PYRENE	100	500	1000	mg/Kg	540	ND	3.5	ND	2400	ND	ND	14

- Exceeds the Unrestricted SCO
- Exceeds the Commercial SCO
- Exceeds the Industrial SCO

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R - Rejected Result

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Jamestown Former MGP SIte
2013 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data Deleted Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Depth Interval: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-02 JT-SB-02_16.0-16.5 15-17 M1085-02 MITKEM M1085 SOIL 7/1/2013 9/3/2013	JT-SB-02 JT-SB-02_32.0-32.5 31-33 M1085-01 MITKEM M1085 SOIL 7/1/2013 9/3/2013	JT-SB-03 JT-SB-03_21.0-21.5 20-22 M1085-05 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-03 JT-SB-03_27.0-27.5 26-28 M1085-04 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_10.0-10.5 9-11 M1085-07 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_31.0-31.5 31-33 M1085-09 MITKEM M1085 SOIL 7/3/2013 9/3/2013	JT-SB-05 JT-SB-05_22.0-22.5 21-23 M1160-01 MITKEM M1160 SOIL 7/8/2013 9/3/2013	JT-SB-05 JT-SB-05_38.0-38.5 37-39 M1160-02 MITKEM M1160 SOIL 7/8/2013 9/3/2013
CAS NO.	COMPOUND				UNITS:								
	PESTICIDES												
309-00-2	ALDRIN	0.005	0.68	1.4	mg/Kg	0.069		ND		ND		ND	
319-84-6	ALPHA BHC	0.02	3.4	6.8	mg/Kg	ND		ND		ND		ND	
5103-71-9	ALPHA-CHLORDANE	0.094	24	47	mg/Kg	0.029 JN		ND		0.96		ND	
319-85-7	BETA BHC	0.036	3	14	mg/Kg	ND		ND		ND		ND	
5103-74-2	BETA-CHLORDANE	NS	NS	NS	mg/Kg	0.087		ND		0.45 JN		ND	
319-86-8	DELTA BHC	0.04	500	1000	mg/Kg	ND		ND		ND		ND	
1031-07-8	ENDOSULFAN SULFATE	2.4	200	920	mg/Kg	ND		ND		0.57 JN		ND	
7421-93-4	ENDRIN ALDEHYDE	NS	NS	NS	mg/Kg	ND		0.0047		ND		ND	
53494-70-5	ENDRIN KETONE	NS	NS	NS	mg/Kg	ND		ND		ND		ND	
58-89-9	GAMMA BHC (LINDANE)	0.1	9.2	23	mg/Kg	ND		ND		ND		ND	
76-44-8	HEPTACHLOR	0.042	15	29	mg/Kg	ND		ND		ND		ND	
72-43-5	METHOXYCHLOR	NS	NS	NS	mg/Kg	ND		ND		ND		ND	
72-54-8	P,P'-DDD	0.0033	92	180	mg/Kg	ND		ND		ND		ND	
72-55-9	P,P'-DDE	0.0033	62	120	mg/Kg	ND		ND		ND		ND	
50-29-3	P,P'-DDT	0.0033	47	94	mg/Kg	ND		ND		ND		ND	
	INORGANICS												
7429-90-5	ALUMINUM	NS	NS	NS	mg/Kg	8540		10700		5320		13000	
7440-36-0	ANTIMONY	NS	NS	NS	mg/Kg	0.67 J		ND		ND		ND	
7440-38-2	ARSENIC	13	16	16	mg/Kg	16.5 J		13.2 J		6.6 J		16.2	
7440-39-3	BARIUM	350	400	10000	mg/Kg	119		149		58.8		56.1	
7440-41-7	BERYLLIUM	7.2	590	2700	mg/Kg	0.92		0.46		0.61		0.52	
7440-43-9	CADMIUM	2.5	9.3	60	mg/Kg	ND		0.066 J		ND		0.35	
7440-70-2	CALCIUM	NS	NS	NS	mg/Kg	15900		8800		33900		25200	
16065-83-1	CHROMIUM III	30	1500	6800	mg/Kg	13		14		4.1		17	
7440-47-3	CHROMIUM, TOTAL	NS	NS	NS	mg/Kg	13.1		14.3		4.1		17.1	
7440-48-4	COBALT	NS	NS	NS	mg/Kg	7.3		8.6		3.2 J		13.4	
7440-50-8	COPPER	50	270	10000	mg/Kg	65.9 J		71.1 J		47.8 J		23.4	
7439-89-6	IRON	NS	NS	NS	mg/Kg	19500		22400		17100		31200	
7439-92-1	LEAD	63	1000	3900	mg/Kg	53.2 J		212 J		22.7 J		11	
7439-95-4	MAGNESIUM	NS	NS	NS	mg/Kg	4400		3730		1770		11400	
7439-96-5	MANGANESE	1600	10000	10000	mg/Kg	268		872		593		583	
7439-97-6	MERCURY	0.18	2.8	5.7	mg/Kg	0.35		5.5		0.34		0.0076 J	
7440-02-0	NICKEL	30	310	10000	mg/Kg	19.2		28.3		7.6		28.7	
7440-09-7	POTASSIUM	NS	NS	NS	mg/Kg	681		1320		432		1370	
7782-49-2	SELENIUM	3.9	1500	6800	mg/Kg	2.3		1.3 J		2 J		ND	
7440-22-4	SILVER	2	1500	6800	mg/Kg	0.19 J		3.8		0.26 J		ND	
7440-23-5	SODIUM	NS	NS	NS	mg/Kg	213		168		287		145	
7440-28-0	THALLIUM	NS	NS	NS	mg/Kg	ND		ND		ND		ND	
7440-62-2	VANADIUM	NS	NS	NS	mg/Kg	15.2		16.3		6.8		17.9	
7440-66-6	ZINC	109	10000	10000	mg/Kg	102		165		32.9		71.9	
57-12-5	CYANIDE	27	27	10000	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND
	OTHER												
MOIST	MOISTURE, PERCENT	NS	NS	NS	%	24	22	26	21	31	25	20	19

- Exceeds the Unrestricted SCO
- Exceeds the Commercial SCO
- Exceeds the Industrial SCO

J - Estimated Result
ND - Not Detected
NS - No Standard
R - Rejected Result

Table 2
Jamestown Former MGP Site
2015 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2015 Site Investigation Validated Soil Boring Data Detected Compound Summary SDG: P1561		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-06 JT-SB-06 (16-18) P1561-21 MITKEM P1561 SO 11/2/2015 11:55 12/28/2015	JT-SB-06 JT-SB-06 (22-24) P1561-22 MITKEM P1561 SO 11/2/2015 12:15 12/28/2015	JT-SB-07 JT-SB-07 (10-12) P1561-01 MITKEM P1561 SO 10/27/2015 8:50 12/28/2015	JT-SB-07 JT-SB-07 (24-26) P1561-02 MITKEM P1561 SO 10/27/2015 10:00 12/28/2015	JT-SB-08 JT-SB-08 (08-10) P1561-05 MITKEM P1561 SO 10/28/2015 8:25 12/28/2015
CAS NO.	COMPOUND				UNITS:					
	VOLATILES									
95-63-6	1,2,4-TRIMETHYLBENZENE	3.6	190	380	mg/Kg	ND	ND	ND	ND	0.7
108-67-8	1,3,5-TRIMETHYLBENZENE	8.4	190	380	mg/Kg	ND	ND	ND	ND	0.26 J
67-64-1	ACETONE	0.05	500	1000	mg/Kg	ND	ND	ND	ND	ND
71-43-2	BENZENE	0.06	44	89	mg/Kg	ND	ND	ND	ND	ND
75-15-0	CARBON DISULFIDE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	0.2 J
156-59-2	CIS-1,2-DICHLOROETHYLENE	0.25	500	1000	mg/Kg	0.008 J	ND	0.002 J	ND	ND
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
1330-20-7	DIMETHYL BENZENE	0.26	500	100	mg/Kg	ND	ND	ND	ND	1.7
100-41-4	ETHYLBENZENE	1	390	780	mg/Kg	ND	ND	ND	ND	2.2
98-82-8	ISOPROPYLBENZENE (CUMENE)	NS	NS	NS	mg/Kg	ND	ND	ND	ND	0.18 J
78-93-3	METHYL ETHYL KETONE	0.12	500	1000	mg/Kg	ND	ND	ND	ND	ND
75-09-2	METHYLENE CHLORIDE	0.05	500	1000	mg/Kg	ND	ND	ND	ND	ND
104-51-8	N-BUTYLBENZENE	12	500	1000	mg/Kg	ND	ND	ND	ND	ND
103-65-1	N-PROPYLBENZENE	3.9	500	1000	mg/Kg	ND	ND	ND	ND	0.16 J
135-98-8	SEC-BUTYLBENZENE	11	500	1000	mg/Kg	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	150	300	mg/Kg	0.18	ND	3.9	ND	ND
108-88-3	TOLUENE	0.7	500	1000	mg/Kg	ND	ND	ND	ND	0.21 J
156-60-5	TRANS-1,2-DICHLOROETHENE	0.19	500	1000	mg/Kg	0.011	ND	ND	ND	ND
79-01-6	TRICHLOROETHYLENE (TCE)	0.47	200	400	mg/Kg	0.042	ND	0.0078 J	ND	ND
179601-23-1	M,P-XYLENE	0.26	500	1000	mg/Kg	ND	ND	ND	ND	0.86
95-47-6	O-XYLENE	0.26	500	1000	mg/Kg	ND	ND	ND	ND	0.79
	XYLENE TOTAL	0.26	500	1000	mg/Kg	ND	ND	ND	ND	1.65
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	45
83-32-9	ACENAPHTHENE	20	500	1000	mg/Kg	ND	ND	ND	ND	110
208-96-8	ACENAPHTHYLENE	100	500	1000	mg/Kg	ND	ND	ND	ND	17 J
120-12-7	ANTHRACENE	100	500	1000	mg/Kg	ND	ND	ND	ND	ND
56-55-3	BENZO(A)ANTHRACENE	1	5.6	11	mg/Kg	ND	ND	0.2 J	ND	38
50-32-8	BENZO(A)PYRENE	1	1	1.1	mg/Kg	ND	ND	0.26 J	ND	46
205-99-2	BENZO(B)FLUORANTHENE	1	1	5.6	mg/Kg	ND	ND	0.23 J	ND	30 J
191-24-2	BENZO(G,H,I)PERYLENE	100	500	1000	mg/Kg	ND	ND	0.3 J	ND	47
207-08-9	BENZO(K)FLUORANTHENE	0.8	56	110	mg/Kg	ND	ND	0.11 J	ND	12 J
85-68-7	BENZYL BUTYL PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
86-74-8	CARBAZOLE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
218-01-9	CHRYSENE	1	56	110	mg/Kg	ND	ND	0.18 J	ND	34
53-70-3	DIBENZ(A,H)ANTHRACENE	0.33	0.56	1.1	mg/Kg	ND	ND	ND	ND	ND
132-64-9	DIBENZOFURAN	7	350	1000	mg/Kg	ND	ND	ND	ND	2.5
206-44-0	FLUORANTHENE	100	500	1000	mg/Kg	ND	ND	0.42	ND	130
86-73-7	FLUORENE	30	500	1000	mg/Kg	ND	ND	ND	ND	43
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	5.6	11	mg/Kg	ND	ND	0.2 J	ND	29 J
91-20-3	NAPHTHALENE	12	500	1000	mg/Kg	ND	ND	ND	ND	130
85-01-8	PHENANTHRENE	100	500	1000	mg/Kg	ND	ND	ND	ND	220
129-00-0	PYRENE	100	500	1000	mg/Kg	ND	ND	0.97	ND	240
	OTHER									
57-12-5	CYANIDE	27	27	10000	mg/Kg	ND	ND	ND	ND	1.45 J+
MOIST	MOISTURE, PERCENT	NS	NS	NS	%	24	20	19	22	12

- Exceeds the Unrestricted SCO
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- Exceeds the Industrial SCO

NS = not specified
ND = not detected
J = laboratory estimated value
J+ = laboratory estimated value biased high

Table 2
Jamestown Former MGP Site
2015 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2015 Site Investigation Validated Soil Boring Data Detected Compound Summary SDG: P1561		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-08 JT-SB-08 (28-30) P1561-06 MITKEM P1561 SO 10/28/2015 9:50 12/28/2015	JT-SB-09 JT-SB-09 (12-14) P1561-03 MITKEM P1561 SO 10/27/2015 16:00 12/28/2015	JT-SB-09 JT-SB-09 (28-30) P1561-04 MITKEM P1561 SO 10/27/2015 17:00 12/28/2015	JT-SB-10 JT-SB-10 (16-18) P1561-07 MITKEM P1561 SO 10/28/2015 11:40 12/28/2015	JT-SB-10 JT-SB-10 (28-30) P1561-08 MITKEM P1561 SO 10/28/2015 12:30 12/28/2015
CAS NO.	COMPOUND				UNITS:					
	VOLATILES									
95-63-6	1,2,4-TRIMETHYLBENZENE	3.6	190	380	mg/Kg	ND	ND	0.0023 J	0.0018 J	ND
108-67-8	1,3,5-TRIMETHYLBENZENE	8.4	190	380	mg/Kg	ND	ND	ND	ND	ND
67-64-1	ACETONE	0.05	500	1000	mg/Kg	ND	0.0075 J	0.052	0.016	0.015
71-43-2	BENZENE	0.06	44	89	mg/Kg	ND	0.012 J	ND	0.019	ND
75-15-0	CARBON DISULFIDE	NS	NS	NS	mg/Kg	ND	ND	0.004 J	0.0033 J	ND
156-59-2	CIS-1,2-DICHLOROETHYLENE	0.25	500	1000	mg/Kg	ND	ND	ND	ND	ND
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
1330-20-7	DIMETHYL BENZENE	0.26	500	100	mg/Kg	ND	ND	ND	0.0044 J	ND
100-41-4	ETHYLBENZENE	1	390	780	mg/Kg	ND	ND	ND	0.0032 J	ND
98-82-8	ISOPROPYLBENZENE (CUMENE)	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
78-93-3	METHYL ETHYL KETONE	0.12	500	1000	mg/Kg	ND	ND	0.019	ND	ND
75-09-2	METHYLENE CHLORIDE	0.05	500	1000	mg/Kg	ND	ND	ND	ND	ND
104-51-8	N-BUTYLBENZENE	12	500	1000	mg/Kg	ND	ND	ND	ND	ND
103-65-1	N-PROPYLBENZENE	3.9	500	1000	mg/Kg	ND	ND	ND	ND	ND
135-98-8	SEC-BUTYLBENZENE	11	500	1000	mg/Kg	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	150	300	mg/Kg	ND	0.16	0.23	0.029	ND
108-88-3	TOLUENE	0.7	500	1000	mg/Kg	ND	ND	ND	0.0046 J	ND
156-60-5	TRANS-1,2-DICHLOROETHENE	0.19	500	1000	mg/Kg	ND	ND	ND	0.012	ND
79-01-6	TRICHLOROETHYLENE (TCE)	0.47	200	400	mg/Kg	ND	0.0059 J	0.018 J	0.02	ND
179601-23-1	M,P-XYLENE	0.26	500	1000	mg/Kg	ND	ND	ND	0.0027 J	ND
95-47-6	O-XYLENE	0.26	500	1000	mg/Kg	ND	ND	ND	0.0017 J	ND
	XYLENE TOTAL	0.26	500	1000	mg/Kg	ND	ND	ND	0.0044	ND
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	NS	NS	NS	mg/Kg	0.28 J	ND	ND	ND	ND
83-32-9	ACENAPHTHENE	20	500	1000	mg/Kg	0.9	ND	0.19 J	0.33 J	ND
208-96-8	ACENAPHTHYLENE	100	500	1000	mg/Kg	0.25 J	ND	ND	0.16 J	ND
120-12-7	ANTHRACENE	100	500	1000	mg/Kg	0.48	ND	0.14 J	0.094 J	ND
56-55-3	BENZO(A)ANTHRACENE	1	5.6	11	mg/Kg	0.42	ND	0.093 J	0.26 J	ND
50-32-8	BENZO(A)PYRENE	1	1	1.1	mg/Kg	0.61	ND	0.12 J	0.37 J	ND
205-99-2	BENZO(B)FLUORANTHENE	1	1	5.6	mg/Kg	0.39 J	ND	ND	0.26 J	ND
191-24-2	BENZO(G,H,I)PERYLENE	100	500	1000	mg/Kg	0.63	ND	0.13 J	0.38	ND
207-08-9	BENZO(K)FLUORANTHENE	0.8	56	110	mg/Kg	0.14 J	ND	ND	0.11 J	ND
85-68-7	BENZYL BUTYL PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
86-74-8	CARBAZOLE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
218-01-9	CHRYSENE	1	56	110	mg/Kg	0.42	ND	0.085 J	0.25 J	ND
53-70-3	DIBENZ(A,H)ANTHRACENE	0.33	0.56	1.1	mg/Kg	ND	ND	ND	ND	ND
132-64-9	DIBENZOFURAN	7	350	1000	mg/Kg	ND	ND	ND	ND	ND
206-44-0	FLUORANTHENE	100	500	1000	mg/Kg	1.5	ND	0.32 J	0.41	ND
86-73-7	FLUORENE	30	500	1000	mg/Kg	0.41	ND	ND	0.078 J	ND
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	5.6	11	mg/Kg	0.39 J	ND	ND	0.25 J	ND
91-20-3	NAPHTHALENE	12	500	1000	mg/Kg	0.55	ND	0.12 J	0.38	ND
85-01-8	PHENANTHRENE	100	500	1000	mg/Kg	2.2	ND	0.56	0.35 J	ND
129-00-0	PYRENE	100	500	1000	mg/Kg	2.4	ND	0.66	1.7	ND
	OTHER									
57-12-5	CYANIDE	27	27	10000	mg/Kg	ND	ND	ND	0.822 J+	ND
MOIST	MOISTURE, PERCENT	NS	NS	NS	%	18	21	20	12	11

- Exceeds the Unrestricted SCO
- Exceeds the Commercial SCO
- Exceeds the Industrial SCO

NS = not specified
ND = not detected
J = laboratory estimated value
J+ = laboratory estimated value biased high

Table 2
Jamestown Former MGP Site
2015 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2015 Site Investigation Validated Soil Boring Data Detected Compound Summary SDG: P1561		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-11 JT-SB-11 (24-25.1) P1561-09 MITKEM P1561 SO 10/28/2015 16:55 12/28/2015	JT-SB-11 JT-SB-11 (28-30) P1561-10 MITKEM P1561 SO 10/28/2015 17:20 12/28/2015	JT-SB-12 JT-SB-12 (24-24.3) P1561-19 MITKEM P1561 SO 10/30/2015 10:15 12/28/2015	JT-SB-12 JT-SB-12 (8-10) P1561-18 MITKEM P1561 SO 10/30/2015 8:50 12/28/2015	JT-SB-13 JT-SB-13 (18-20) P1561-11 MITKEM P1561 SO 10/29/2015 10:00 12/28/2015
CAS NO.	COMPOUND				UNITS:					
	VOLATILES									
95-63-6	1,2,4-TRIMETHYLBENZENE	3.6	190	380	mg/Kg	19 J	0.17	0.0037 J	0.0042 J	ND
108-67-8	1,3,5-TRIMETHYLBENZENE	8.4	190	380	mg/Kg	11 J	0.088	0.0026 J	ND	ND
67-64-1	ACETONE	0.05	500	1000	mg/Kg	0.028	ND	0.033	0.0097	ND
71-43-2	BENZENE	0.06	44	89	mg/Kg	0.085	0.095	ND	ND	0.0095 J
75-15-0	CARBON DISULFIDE	NS	NS	NS	mg/Kg	0.0056 J	0.0094	ND	ND	ND
156-59-2	CIS-1,2-DICHLOROETHYLENE	0.25	500	1000	mg/Kg	ND	ND	ND	ND	ND
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	NS	NS	NS	mg/Kg	0.027	0.013	ND	ND	ND
1330-20-7	DIMETHYL BENZENE	0.26	500	100	mg/Kg	32 J	0.38	ND	ND	ND
100-41-4	ETHYLBENZENE	1	390	780	mg/Kg	38	0.53 J	0.0026 J	ND	ND
98-82-8	ISOPROPYLBENZENE (CUMENE)	NS	NS	NS	mg/Kg	0.063	0.026	ND	ND	ND
78-93-3	METHYL ETHYL KETONE	0.12	500	1000	mg/Kg	ND	ND	ND	ND	ND
75-09-2	METHYLENE CHLORIDE	0.05	500	1000	mg/Kg	ND	ND	ND	0.015	ND
104-51-8	N-BUTYLBENZENE	12	500	1000	mg/Kg	0.024	0.0086	ND	ND	ND
103-65-1	N-PROPYLBENZENE	3.9	500	1000	mg/Kg	0.046	0.016	ND	ND	ND
135-98-8	SEC-BUTYLBENZENE	11	500	1000	mg/Kg	0.0074 J	0.003 J	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	150	300	mg/Kg	ND	ND	ND	ND	ND
108-88-3	TOLUENE	0.7	500	1000	mg/Kg	3.7 J	0.051	ND	ND	ND
156-60-5	TRANS-1,2-DICHLOROETHENE	0.19	500	1000	mg/Kg	ND	ND	ND	ND	ND
79-01-6	TRICHLOROETHYLENE (TCE)	0.47	200	400	mg/Kg	ND	ND	ND	ND	ND
179601-23-1	M,P-XYLENE	0.26	500	1000	mg/Kg	24 J	0.27	ND	ND	ND
95-47-6	O-XYLENE	0.26	500	1000	mg/Kg	8.5 J	0.11	ND	ND	ND
	XYLENE TOTAL	0.26	500	1000	mg/Kg	32.5	0.38	ND	ND	ND
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	NS	NS	NS	mg/Kg	7	0.78	0.31 J	ND	ND
83-32-9	ACENAPHTHENE	20	500	1000	mg/Kg	16	2.1	0.6	ND	ND
208-96-8	ACENAPHTHYLENE	100	500	1000	mg/Kg	2.2	0.33 J	0.15 J	ND	ND
120-12-7	ANTHRACENE	100	500	1000	mg/Kg	7.6	1.7	0.76	ND	0.16 J
56-55-3	BENZO(A)ANTHRACENE	1	5.6	11	mg/Kg	6.2	1.8	0.93	0.14 J	0.71
50-32-8	BENZO(A)PYRENE	1	1	1.1	mg/Kg	9.1	2	1	0.12 J	0.69
205-99-2	BENZO(B)FLUORANTHENE	1	1	5.6	mg/Kg	6.6	1.8	1	0.13 J	0.74
191-24-2	BENZO(G,H,I)PERYLENE	100	500	1000	mg/Kg	11	1.7	0.78	ND	0.45 J
207-08-9	BENZO(K)FLUORANTHENE	0.8	56	110	mg/Kg	2.7	0.88	0.42 J	ND	0.35 J
85-68-7	BENZYL BUTYL PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	NS	NS	NS	mg/Kg	0.11 J	ND	ND	ND	ND
86-74-8	CARBAZOLE	NS	NS	NS	mg/Kg	0.49	0.44	0.11 J	ND	ND
218-01-9	CHRYSENE	1	56	110	mg/Kg	6.5	1.8	1	0.14 J	0.61
53-70-3	DIBENZ(A,H)ANTHRACENE	0.33	0.56	1.1	mg/Kg	0.59	0.18 J	0.11 J	ND	0.1 J
132-64-9	DIBENZOFURAN	7	350	1000	mg/Kg	0.55	0.44	0.14 J	ND	ND
206-44-0	FLUORANTHENE	100	500	1000	mg/Kg	22	5.4	2.7	0.34 J	0.89
86-73-7	FLUORENE	30	500	1000	mg/Kg	5.7	1.2	0.41 J	ND	ND
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	5.6	11	mg/Kg	6.2	1.3	0.68	ND	0.53
91-20-3	NAPHTHALENE	12	500	1000	mg/Kg	29	2.5	0.71	ND	0.13 J
85-01-8	PHENANTHRENE	100	500	1000	mg/Kg	32	6.8	2.8	0.34 J	0.38 J
129-00-0	PYRENE	100	500	1000	mg/Kg	41	7.5	3	0.38 J	1
	OTHER									
57-12-5	CYANIDE	27	27	10000	mg/Kg	0.631 J+	0.48 J	1.85 J+	8.85 J+	ND
MOIST	MOISTURE, PERCENT	NS	NS	NS	%	20	15	24	36	29

- Exceeds the Unrestricted SCO
- Exceeds the Commercial SCO
- Exceeds the Industrial SCO

NS = not specified
ND = not detected
J = laboratory estimated value
J+ = laboratory estimated value biased high

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Jamestown Former MGP Site
2015 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2015 Site Investigation Validated Soil Boring Data Detected Compound Summary SDG: P1561		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-13 JT-SB-13 (22-24) P1561-12 MITKEM P1561 SO 10/29/2015 10:10 12/28/2015	JT-SB-13 JT-SB-DUP (22-24) P1561-13 MITKEM P1561 SO 10/29/2015 0:00 12/28/2015	JT-SB-14 JT-SB-14 (12-14) P1561-14 MITKEM P1561 SO 10/29/2015 13:50 12/28/2015	JT-SB-14 JT-SB-14 (28-30) P1561-15 MITKEM P1561 SO 10/29/2015 14:50 12/28/2015	JT-SB-15 JT-SB-15 (22-24) P1561-16 MITKEM P1561 SO 10/29/2015 17:00 12/28/2015
CAS NO.	COMPOUND				UNITS:					
	VOLATILES									
95-63-6	1,2,4-TRIMETHYLBENZENE	3.6	190	380	mg/Kg	ND	ND	0.2	ND	ND
108-67-8	1,3,5-TRIMETHYLBENZENE	8.4	190	380	mg/Kg	ND	ND	0.11	ND	ND
67-64-1	ACETONE	0.05	500	1000	mg/Kg	0.043	0.028	0.038	0.012	ND
71-43-2	BENZENE	0.06	44	89	mg/Kg	ND	ND	0.066	ND	ND
75-15-0	CARBON DISULFIDE	NS	NS	NS	mg/Kg	ND	ND	0.006 J	ND	ND
156-59-2	CIS-1,2-DICHLOROETHYLENE	0.25	500	1000	mg/Kg	ND	ND	ND	ND	ND
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	NS	NS	NS	mg/Kg	ND	ND	0.033	ND	ND
1330-20-7	DIMETHYL BENZENE	0.26	500	100	mg/Kg	ND	ND	0.22	ND	ND
100-41-4	ETHYLBENZENE	1	390	780	mg/Kg	ND	ND	0.25	ND	ND
98-82-8	ISOPROPYLBENZENE (CUMENE)	NS	NS	NS	mg/Kg	ND	ND	0.03	ND	ND
78-93-3	METHYL ETHYL KETONE	0.12	500	1000	mg/Kg	ND	ND	ND	ND	ND
75-09-2	METHYLENE CHLORIDE	0.05	500	1000	mg/Kg	ND	ND	ND	ND	ND
104-51-8	N-BUTYLBENZENE	12	500	1000	mg/Kg	ND	ND	0.029	ND	ND
103-65-1	N-PROPYLBENZENE	3.9	500	1000	mg/Kg	ND	ND	0.017	ND	ND
135-98-8	SEC-BUTYLBENZENE	11	500	1000	mg/Kg	ND	ND	0.005 J	ND	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	150	300	mg/Kg	ND	ND	ND	ND	ND
108-88-3	TOLUENE	0.7	500	1000	mg/Kg	ND	ND	0.055	ND	ND
156-60-5	TRANS-1,2-DICHLOROETHENE	0.19	500	1000	mg/Kg	ND	ND	ND	ND	ND
79-01-6	TRICHLOROETHYLENE (TCE)	0.47	200	400	mg/Kg	ND	ND	ND	ND	ND
179601-23-1	M,P-XYLENE	0.26	500	1000	mg/Kg	ND	ND	0.12	ND	ND
95-47-6	O-XYLENE	0.26	500	1000	mg/Kg	ND	ND	0.099	ND	ND
	XYLENE TOTAL	0.26	500	1000	mg/Kg	ND	ND	0.219	ND	ND
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	NS	NS	NS	mg/Kg	ND	ND	ND	0.12 J	0.11 J
83-32-9	ACENAPHTHENE	20	500	1000	mg/Kg	ND	ND	190 J	0.42	0.54
208-96-8	ACENAPHTHYLENE	100	500	1000	mg/Kg	ND	ND	160 J	0.59	ND
120-12-7	ANTHRACENE	100	500	1000	mg/Kg	ND	ND	180 J	1.2	0.77
56-55-3	BENZO(A)ANTHRACENE	1	5.6	11	mg/Kg	ND	ND	160 J	0.6	0.79
50-32-8	BENZO(A)PYRENE	1	1	1.1	mg/Kg	ND	ND	170 J	0.74	0.67
205-99-2	BENZO(B)FLUORANTHENE	1	1	5.6	mg/Kg	ND	ND	130 J	0.58	0.83
191-24-2	BENZO(G,H,I)PERYLENE	100	500	1000	mg/Kg	ND	ND	170 J	0.64	0.35 J
207-08-9	BENZO(K)FLUORANTHENE	0.8	56	110	mg/Kg	ND	ND	ND	0.25 J	0.34 J
85-68-7	BENZYL BUTYL PHTHALATE	NS	NS	NS	mg/Kg	ND	0.1 J	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	ND
86-74-8	CARBAZOLE	NS	NS	NS	mg/Kg	ND	ND	ND	ND	0.45
218-01-9	CHRYSENE	1	56	110	mg/Kg	ND	ND	140 J	0.7	0.75
53-70-3	DIBENZ(A,H)ANTHRACENE	0.33	0.56	1.1	mg/Kg	ND	ND	ND	ND	0.086 J
132-64-9	DIBENZOFURAN	7	350	1000	mg/Kg	ND	ND	ND	ND	0.34 J
206-44-0	FLUORANTHENE	100	500	1000	mg/Kg	ND	0.13 J	480	2.2	2.3
86-73-7	FLUORENE	30	500	1000	mg/Kg	ND	ND	140 J	0.5	0.48
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	5.6	11	mg/Kg	ND	ND	110 J	0.43	0.48
91-20-3	NAPHTHALENE	12	500	1000	mg/Kg	ND	ND	140 J	0.11 J	0.62
85-01-8	PHENANTHRENE	100	500	1000	mg/Kg	ND	0.094 J	850	3.1	2.6
129-00-0	PYRENE	100	500	1000	mg/Kg	ND	0.13 J	910	3.2	1.7
	OTHER									
57-12-5	CYANIDE	27	27	10000	mg/Kg	ND	0.58 J	2.74 J+	ND	ND
MOIST	MOISTURE, PERCENT	NS	NS	NS	%	27	29	29	22	15

- Exceeds the Unrestricted SCO
- Exceeds the Commercial SCO
- Exceeds the Industrial SCO

NS = not specified
ND = not detected
J = laboratory estimated value
J+ = laboratory estimated value biased high

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2015 Subsurface Soils Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2015 Site Investigation Validated Soil Boring Data Detected Compound Summary SDG: P1561		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-15 JT-SB-15 (28-30) P1561-17 MITKEM P1561 SO 10/29/2015 17:20 12/28/2015
CAS NO.	COMPOUND				UNITS:	
	VOLATILES					
95-63-6	1,2,4-TRIMETHYLBENZENE	3.6	190	380	mg/Kg	ND
108-67-8	1,3,5-TRIMETHYLBENZENE	8.4	190	380	mg/Kg	ND
67-64-1	ACETONE	0.05	500	1000	mg/Kg	0.0077 J
71-43-2	BENZENE	0.06	44	89	mg/Kg	ND
75-15-0	CARBON DISULFIDE	NS	NS	NS	mg/Kg	ND
156-59-2	CIS-1,2-DICHLOROETHYLENE	0.25	500	1000	mg/Kg	ND
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	NS	NS	NS	mg/Kg	ND
1330-20-7	DIMETHYL BENZENE	0.26	500	100	mg/Kg	ND
100-41-4	ETHYLBENZENE	1	390	780	mg/Kg	ND
98-82-8	ISOPROPYLBENZENE (CUMENE)	NS	NS	NS	mg/Kg	ND
78-93-3	METHYL ETHYL KETONE	0.12	500	1000	mg/Kg	ND
75-09-2	METHYLENE CHLORIDE	0.05	500	1000	mg/Kg	ND
104-51-8	N-BUTYLBENZENE	12	500	1000	mg/Kg	ND
103-65-1	N-PROPYLBENZENE	3.9	500	1000	mg/Kg	ND
135-98-8	SEC-BUTYLBENZENE	11	500	1000	mg/Kg	ND
127-18-4	TETRACHLOROETHYLENE(PCE)	1.3	150	300	mg/Kg	ND
108-88-3	TOLUENE	0.7	500	1000	mg/Kg	ND
156-60-5	TRANS-1,2-DICHLOROETHENE	0.19	500	1000	mg/Kg	ND
79-01-6	TRICHLOROETHYLENE (TCE)	0.47	200	400	mg/Kg	ND
179601-23-1	M,P-XYLENE	0.26	500	1000	mg/Kg	ND
95-47-6	O-XYLENE	0.26	500	1000	mg/Kg	ND
	XYLENE TOTAL	0.26	500	1000	mg/Kg	ND
	SEMIVOLATILES					
91-57-6	2-METHYLNAPHTHALENE	NS	NS	NS	mg/Kg	ND
83-32-9	ACENAPHTHENE	20	500	1000	mg/Kg	ND
208-96-8	ACENAPHTHYLENE	100	500	1000	mg/Kg	ND
120-12-7	ANTHRACENE	100	500	1000	mg/Kg	ND
56-55-3	BENZO(A)ANTHRACENE	1	5.6	11	mg/Kg	ND
50-32-8	BENZO(A)PYRENE	1	1	1.1	mg/Kg	ND
205-99-2	BENZO(B)FLUORANTHENE	1	1	5.6	mg/Kg	ND
191-24-2	BENZO(G,H,I)PERYLENE	100	500	1000	mg/Kg	ND
207-08-9	BENZO(K)FLUORANTHENE	0.8	56	110	mg/Kg	ND
85-68-7	BENZYL BUTYL PHTHALATE	NS	NS	NS	mg/Kg	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	NS	NS	NS	mg/Kg	ND
86-74-8	CARBAZOLE	NS	NS	NS	mg/Kg	ND
218-01-9	CHRYSENE	1	56	110	mg/Kg	ND
53-70-3	DIBENZ(A,H)ANTHRACENE	0.33	0.56	1.1	mg/Kg	ND
132-64-9	DIBENZOFURAN	7	350	1000	mg/Kg	ND
206-44-0	FLUORANTHENE	100	500	1000	mg/Kg	ND
86-73-7	FLUORENE	30	500	1000	mg/Kg	ND
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	5.6	11	mg/Kg	ND
91-20-3	NAPHTHALENE	12	500	1000	mg/Kg	ND
85-01-8	PHENANTHRENE	100	500	1000	mg/Kg	ND
129-00-0	PYRENE	100	500	1000	mg/Kg	ND
	OTHER					
57-12-5	CYANIDE	27	27	10000	mg/Kg	ND
MOIST	MOISTURE, PERCENT	NS	NS	NS	%	15

- Exceeds the Unrestricted SCO
- Exceeds the Commercial SCO
- Exceeds the Industrial SCO

NS = not specified
ND = not detected
J = laboratory estimated value
J+ = laboratory estimated value biased high

Table 3
Jamestown Former MGP Site
Groundwater Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data Detected Compound Summary		NYSDEC Ambient Water Quality Standards/Guidance Criteria Class GA Standard	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-01 JT-MW-01_072513 M1261-05 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-01 JT-MW-01_112513 M2333-06 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-02 JT-MW-02_072513 M1261-06 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-02 JT-MW-02_112513 M2333-01 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-03 JT-MW-03_072413 M1261-01 MITKEM M1261 WATER 7/24/2013 9/3/2013
CAS NO.	COMPOUND		UNITS:					
	VOLATILES							
95-63-6	1,2,4-TRIMETHYLBENZENE	5	ug/L	3.5	2.4	ND	ND	ND
108-67-8	1,3,5-TRIMETHYLBENZENE	5	ug/L	1.2	ND	ND	ND	ND
71-43-2	BENZENE	1	ug/L	25	25	ND	ND	3.8
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	ug/L	49	48	ND	ND	1.5
99-87-6	CYMENE	5	ug/L	ND	ND	ND	ND	ND
1330-20-7	DIMETHYL BENZENE	5	ug/L	4.2	2.9	ND	ND	ND
100-41-4	ETHYLBENZENE	5	ug/L	8.3	4.8	ND	ND	ND
98-82-8	ISOPROPYLBENZENE	5	ug/L	ND	ND	ND	ND	ND
104-51-8	N-BUTYLBENZENE	5	ug/L	ND	ND	ND	ND	ND
103-65-1	N-PROPYLBENZENE	5	ug/L	ND	ND	ND	ND	ND
100-42-5	STYRENE	5	ug/L	ND	ND	ND	ND	ND
127-18-4	TETRACHLOROETHYLENE	5	ug/L	4.3	13	2.5	1.6	ND
108-88-3	TOLUENE	5	ug/L	ND	0.5 J	ND	ND	ND
156-60-5	TRANS-1,2-DICHLOROETHENE	5	ug/L	8.1	10	ND	ND	1.2
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/L	6.8	7.5	ND	1.1	1.5
75-01-4	VINYL CHLORIDE	2	ug/L	2.5	4	ND	ND	ND
179601-23-1	m,p-Xylene	5	ug/L	2.8	1.8	ND	ND	ND
95-47-6	O-XYLENE	5	ug/L	1.3	1.1	ND	ND	ND
	XYLENES, TOTAL	5	ug/L	4.1	2.9	ND	ND	ND
	SEMIVOLATILES							
91-57-6	2-METHYLNAPHTHALENE	NS	ug/L	ND	ND	ND	ND	ND
95-48-7	2-METHYLPHENOL	1	ug/L	ND	ND	ND	ND	ND
106-44-5	4-METHYLPHENOL	1	ug/L	ND	ND	ND	ND	ND
83-32-9	ACENAPHTHENE	20 (G)	ug/L	ND	ND	ND	ND	8.9 J
208-96-8	ACENAPHTHYLENE	NS	ug/L	ND	ND	ND	ND	3.1 J
120-12-7	ANTHRACENE	50 (G)	ug/L	ND	ND	ND	ND	ND
86-74-8	CARBAZOLE	NS	ug/L	ND	ND	ND	ND	ND
132-64-9	DIBENZOFURAN	NS	ug/L	ND	ND	ND	ND	ND
206-44-0	FLUORANTHENE	50 (G)	ug/L	ND	ND	ND	ND	ND
86-73-7	FLUORENE	50 (G)	ug/L	ND	ND	ND	ND	1 J
91-20-3	NAPHTHALENE	10 (G)	ug/L	ND	36	ND	ND	2.2 J
85-01-8	PHENANTHRENE	50 (G)	ug/L	ND	ND	ND	ND	1.3 J
108-95-2	PHENOL	5	ug/L	ND	ND	ND	ND	ND
129-00-0	PYRENE	50 (G)	ug/L	ND	ND	ND	ND	1.7 J
	PESTICIDES							
319-84-6	ALPHA BHC	0.01	ug/L	ND	ND	ND	ND	ND

- Exceeds the Class GA Standard

(G) - Guidance Value

J - Estimated Result

ND - Not Detected

Table 3
Jamestown Former MGP Site
Groundwater Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data Detected Compound Summary		NYSDEC Ambient Water Quality Standards/Guidance Criteria Class GA Standard	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-01 JT-MW-01_072513 M1261-05 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-01 JT-MW-01_112513 M2333-06 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-02 JT-MW-02_072513 M1261-06 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-02 JT-MW-02_112513 M2333-01 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-03 JT-MW-03_072413 M1261-01 MITKEM M1261 WATER 7/24/2013 9/3/2013
CAS NO.	COMPOUND		UNITS:					
	INORGANICS							
7429-90-5	ALUMINUM	NS	ug/L	188 J	129 J	ND	148 J	ND
7440-36-0	ANTIMONY	3	ug/L	ND	ND	ND	ND	11.4 J
7440-38-2	ARSENIC	25	ug/L	10.9 J	10.3 J	34.9	27.2	7.2 J
7440-39-3	BARIUM	1000	ug/L	287	252	200	223	232
7440-70-2	CALCIUM	NS	ug/L	145000	138000	163000	168000	130000
7440-47-3	CHROMIUM, TOTAL	50	ug/L	ND	ND	0.71 J	ND	1 J
7440-48-4	COBALT	NS	ug/L	0.87 J	ND	ND	ND	ND
7440-50-8	COPPER	200	ug/L	ND	ND	ND	ND	ND
7439-89-6	IRON	300	ug/L	4350	5000	2680	3550	1150
7439-92-1	LEAD	25	ug/L	5.4 J	ND	ND	ND	ND
7439-95-4	MAGNESIUM	35000 (G)	ug/L	27900	26800	28600	29700	23800
7439-96-5	MANGANESE	300	ug/L	3510	3080	3210	3850	1070
7440-02-0	NICKEL	100	ug/L	1.2 J	ND	1.1 J	ND	ND
7440-09-7	POTASSIUM	NS	ug/L	16200	14700 J	11600	10000 J	11000
7782-49-2	SELENIUM	10	ug/L	ND	ND	ND	ND	13.4 J
7440-23-5	SODIUM	20000	ug/L	287000	280000	307000	296000	260000
7440-66-6	ZINC	2000 (G)	ug/L	ND	7.3 J	ND	ND	5.1 J
57-12-5	CYANIDE	200	ug/L	ND	ND	ND	ND	7.5 J

- Exceeds the Class GA Standard

(G) - Guidance Value

J - Estimated Result

ND - Not Detected

Table 3
Jamestown Former MGP Site
Groundwater Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data Detected Compound Summary		NYSDEC Ambient Water Quality Standards/Guidance Criteria Class GA Standard	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-03 JT-MW-030_072413 M1261-02 MITKEM M1261 WATER 7/24/2013 9/3/2013	Dup of JT-MW-03_072413 JT-MW-03 JT-MW-03_112513 M2333-04 MITKEM M2333 WATER 11/25/2013 1/13/2014	Dup of JT-MW-03_112513 JT-MW-03 JT-MW-030_112513 M2333-05 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-04 JT-MW-04_072413 M1261-03 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-04 JT-MW-04_112513 M2333-03 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-05 JT-MW-05_072513 M1261-07 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-05 JT-MW-05_112513 M2333-02 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND		UNITS:							
	VOLATILES									
95-63-6	1,2,4-TRIMETHYLBENZENE	5	ug/L	ND	ND	ND	ND	ND	37	16
108-67-8	1,3,5-TRIMETHYLBENZENE	5	ug/L	ND	ND	ND	ND	ND	15	ND
71-43-2	BENZENE	1	ug/L	3.6	3.1	3.1	ND	ND	16	9.9
156-59-2	CIS-1,2-DICHLOROETHYLENE	5	ug/L	1.2	2.1	2	ND	ND	ND	ND
99-87-6	CYMENE	5	ug/L	ND	ND	ND	ND	ND	3.4	ND
1330-20-7	DIMETHYL BENZENE	5	ug/L	ND	ND	ND	ND	ND	50	17
100-41-4	ETHYLBENZENE	5	ug/L	ND	ND	ND	ND	ND	11	5.1
98-82-8	ISOPROPYLBENZENE	5	ug/L	ND	ND	ND	ND	ND	4.5	2.7 J
104-51-8	N-BUTYLBENZENE	5	ug/L	ND	ND	ND	ND	ND	3.5	ND
103-65-1	N-PROPYLBENZENE	5	ug/L	ND	ND	ND	ND	ND	3.2	ND
100-42-5	STYRENE	5	ug/L	ND	ND	ND	ND	ND	2.6	ND
127-18-4	TETRACHLOROETHYLENE	5	ug/L	ND	ND	ND	97	65	ND	ND
108-88-3	TOLUENE	5	ug/L	ND	ND	ND	ND	ND	20	9
156-60-5	TRANS-1,2-DICHLOROETHENE	5	ug/L	1.2	2.1	2	ND	ND	ND	ND
79-01-6	TRICHLOROETHYLENE (TCE)	5	ug/L	1.3	2.1	2	1.1	0.65 J	ND	ND
75-01-4	VINYL CHLORIDE	2	ug/L	ND	ND	ND	ND	ND	ND	ND
179601-23-1	m,p-Xylene	5	ug/L	ND	ND	ND	ND	ND	29	8.4
95-47-6	O-XYLENE	5	ug/L	ND	ND	ND	ND	ND	21	8.4
	XYLENES, TOTAL	5	ug/L	ND	ND	ND	ND	ND	50	16.8
	SEMIVOLATILES									
91-57-6	2-METHYLNAPHTHALENE	NS	ug/L	ND	ND	ND	ND	ND	80	26
95-48-7	2-METHYLPHENOL	1	ug/L	ND	ND	ND	ND	ND	5.7 J	2.4 J
106-44-5	4-METHYLPHENOL	1	ug/L	ND	ND	ND	ND	ND	3.6 J	ND
83-32-9	ACENAPHTHENE	20 (G)	ug/L	8.2 J	5.1 J	5.8 J	ND	ND	120	120
208-96-8	ACENAPHTHYLENE	NS	ug/L	2.8 J	3.8 J	4.2 J	ND	ND	21	ND
120-12-7	ANTHRACENE	50 (G)	ug/L	ND	ND	ND	ND	ND	15	13
86-74-8	CARBAZOLE	NS	ug/L	ND	ND	ND	ND	ND	42	24
132-64-9	DIBENZOFURAN	NS	ug/L	ND	ND	ND	ND	ND	69	55
206-44-0	FLUORANTHENE	50 (G)	ug/L	ND	ND	ND	ND	ND	9.2 J	8.4 J
86-73-7	FLUORENE	50 (G)	ug/L	ND	1 J	1.2 J	ND	ND	76	73
91-20-3	NAPHTHALENE	10 (G)	ug/L	1.6 J	ND	1 J	ND	ND	100	260
85-01-8	PHENANTHRENE	50 (G)	ug/L	1.2 J	ND	ND	ND	ND	67	68
108-95-2	PHENOL	5	ug/L	ND	ND	ND	ND	ND	2.1 J	ND
129-00-0	PYRENE	50 (G)	ug/L	1.6 J	2.1 J	3 J	ND	ND	7.6 J	6.7 J
	PESTICIDES									
319-84-6	ALPHA BHC	0.01	ug/L	ND	ND	ND	ND	ND	0.051 J	0.11

- Exceeds the Class GA Standard

(G) - Guidance Value

J - Estimated Result

ND - Not Detected

Table 3
Jamestown Former MGP Site
Groundwater Analytical Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data Detected Compound Summary		NYSDEC Ambient Water Quality Standards/Guidance Criteria Class GA Standard	Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-03 JT-MW-030_072413 M1261-02 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-03 JT-MW-03_112513 M2333-04 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-03 JT-MW-030_112513 M2333-05 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-04 JT-MW-04_072413 M1261-03 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-04 JT-MW-04_112513 M2333-03 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-05 JT-MW-05_072513 M1261-07 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-05 JT-MW-05_112513 M2333-02 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND		UNITS:							
	INORGANICS									
7429-90-5	ALUMINUM	NS	ug/L	ND	86.8 J	ND	196 J	161 J	196 J	ND
7440-36-0	ANTIMONY	3	ug/L	ND	ND	ND	ND	ND	ND	ND
7440-38-2	ARSENIC	25	ug/L	12 J	ND	ND	5.2 J	ND	7.9 J	11.7 J
7440-39-3	BARIUM	1000	ug/L	227	204	209	174 J	171 J	350	336
7440-70-2	CALCIUM	NS	ug/L	129000	121000	127000	150000	153000	132000	135000
7440-47-3	CHROMIUM, TOTAL	50	ug/L	0.71 J	1.1 J	0.94 J	3.8 J	0.75 J	ND	ND
7440-48-4	COBALT	NS	ug/L	ND	ND	ND	ND	ND	0.89 J	ND
7440-50-8	COPPER	200	ug/L	ND	ND	ND	3.8 J	ND	ND	ND
7439-89-6	IRON	300	ug/L	1100	1880	1720	375	189 J	2310	5150
7439-92-1	LEAD	25	ug/L	ND	ND	ND	4.8 J	ND	ND	ND
7439-95-4	MAGNESIUM	35000 (G)	ug/L	23400	23200	23500	31400	32700	28500	26800
7439-96-5	MANGANESE	300	ug/L	1040	733	756	537	273	4190	2680
7440-02-0	NICKEL	100	ug/L	ND	ND	ND	1.2 J	0.88 J	1.3 J	1.4 J
7440-09-7	POTASSIUM	NS	ug/L	10900	8600 J	9170 J	5250	6980 J	6360	6020 J
7782-49-2	SELENIUM	10	ug/L	13.3 J	12.9 J	ND	ND	ND	ND	ND
7440-23-5	SODIUM	20000	ug/L	263000	259000	270000	224000	222000	263000	262000
7440-66-6	ZINC	2000 (G)	ug/L	ND	ND	ND	ND	ND	6.2 J	ND
57-12-5	CYANIDE	200	ug/L	7.9 J	ND	ND	ND	ND	125	66.6

- Exceeds the Class GA Standard

(G) - Guidance Value

J - Estimated Result

ND - Not Detected

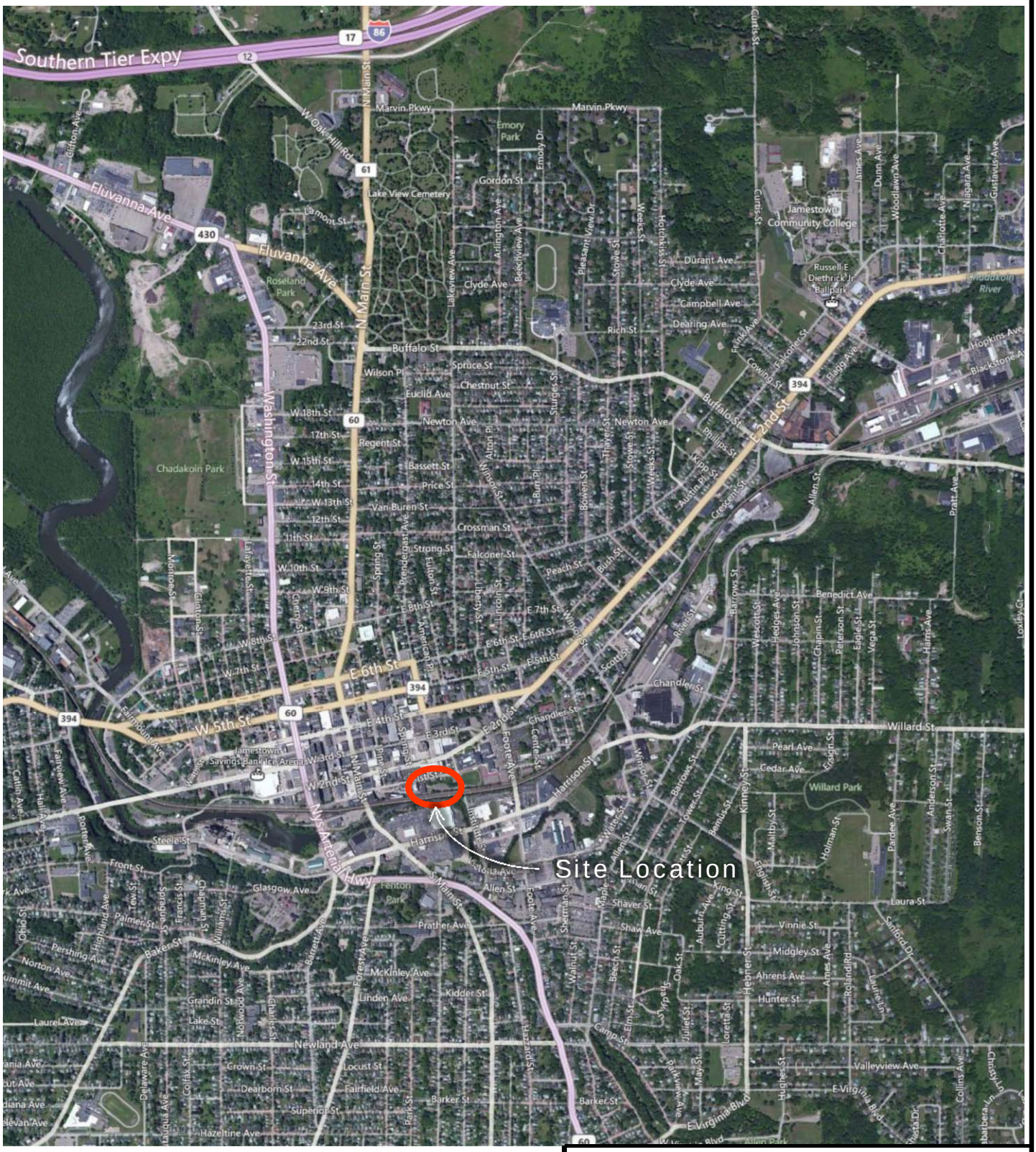
Table 4
Jamestown Former MGP Site
Surface Soils Anaytical Result Detected Compound Summary

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Surface Soil Data Deleted Compound Summary		6 NYCRR Part 375 Unrestricted Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Commercial Cleanup Objective (ppm) NS = not specified	6 NYCRR Part 375 Industrial Cleanup Objective (ppm) NS = not specified	Location ID: Sample ID: Depth: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SS-01 JT-SS-01_070213 0-0.5' M1085-06 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-02 JT-SS-02_070213 0-0.5' M1085-03 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-03 JT-SS-03_070313 0-0.5' M1085-10 MITKEM M1085 SOIL 7/3/2013 9/3/2013	JT-SS-04 JT-SS-04_070213 0-0.5' M1085-08 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-05 JT-SS-05_070313 0-0.5' M1085-11 MITKEM M1085 SOIL 7/3/2013 9/3/2013	Dup of JT-SS-05_070313 JT-SS-05 JT-SS-050_070313 0-0.5' M1085-12 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND				UNITS:						
	VOLATILES										
67-64-1	ACETONE	0.05	500	1000	mg/Kg	ND	0.0066	ND	0.0064	ND	ND
	SEMIVOLATILES										
91-57-6	2-METHYLNAPHTHALENE	NS	NS	NS	mg/Kg	ND	0.076	ND	0.11	ND	ND
83-32-9	ACENAPHTHENE	20	500	1000	mg/Kg	ND	ND	ND	0.21	ND	ND
208-96-8	ACENAPHTHYLENE	100	500	1000	mg/Kg	ND	0.072	ND	0.42	ND	ND
120-12-7	ANTHRACENE	100	500	1000	mg/Kg	ND	0.21	ND	0.76	ND	ND
56-55-3	BENZO(A)ANTHRACENE	1	5.6	11	mg/Kg	0.38	0.77	0.31	2.8	0.11	0.087
50-32-8	BENZO(A)PYRENE	1	1	1.1	mg/Kg	0.33	0.71	0.3	2.7	0.12	0.1
205-99-2	BENZO(B)FLUORANTHENE	1	5.6	11	mg/Kg	0.32	0.94	0.41	3.5	0.14	0.13
191-24-2	BENZO(G,H,I)PERYLENE	100	500	1000	mg/Kg	0.46	0.49	0.26	1.8	ND	0.13
207-08-9	BENZO(K)FLUORANTHENE	0.8	56	110	mg/Kg	0.35	ND	ND	ND	ND	ND
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	NS	NS	NS	mg/Kg	ND	0.21	ND	0.16	ND	0.49
86-74-8	CARBAZOLE	NS	NS	NS	mg/Kg	ND	0.095	ND	0.2	ND	ND
218-01-9	CHRYSENE	1	56	110	mg/Kg	0.4	0.96	0.35	3.2	0.12	0.11
53-70-3	DIBENZ(A,H)ANTHRACENE	0.33	0.56	1.1	mg/Kg	ND	0.13	ND	0.43	ND	ND
132-64-9	DIBENZOFURAN	7	350	1000	mg/Kg	ND	0.086	ND	0.11	ND	ND
84-74-2	DI-N-BUTYL PHTHALATE	NS	NS	NS	mg/Kg	ND	ND	ND	0.084	ND	0.11
206-44-0	FLUORANTHENE	100	500	1000	mg/Kg	0.66	1.4	0.46	4.6	0.18	0.13
86-73-7	FLUORENE	30	500	1000	mg/Kg	ND	0.1	ND	0.25	ND	ND
193-39-5	INDENO(1,2,3-C,D)PYRENE	0.5	5.6	11	mg/Kg	0.29	0.53	0.24	2	0.099	0.1
91-20-3	NAPHTHALENE	12	500	1000	mg/Kg	ND	0.16	ND	0.29	ND	ND
85-01-8	PHENANTHRENE	100	500	1000	mg/Kg	0.41	1.2	0.25	3	0.14	0.076
129-00-0	PYRENE	100	500	1000	mg/Kg	0.61	1.6	0.54	5.4	0.22	0.12
	PESTICIDES										
5103-71-9	ALPHA-CHLORDANE	0.094	24	47	mg/Kg	ND	0.0042	0.002	ND	ND	ND
1031-07-8	ENDOSULFAN SULFATE	2.4	200	920	mg/Kg	ND	ND	ND	0.029	ND	ND
7421-93-4	ENDRIN ALDEHYDE	NS	NS	NS	mg/Kg	ND	ND	0.0021	ND	ND	ND
53494-70-5	ENDRIN KETONE	NS	NS	NS	mg/Kg	ND	ND	ND	0.01	ND	ND
72-43-5	METHOXYCHLOR	NS	NS	NS	mg/Kg	ND	ND	ND	0.029	ND	ND
	METALS										
7429-90-5	ALUMINUM	NS	NS	NS	mg/Kg	6500	3710	6730	8300	6610	5350
7440-36-0	ANTIMONY	NS	NS	NS	mg/Kg	ND	0.4 J	0.62 J	0.53 J	ND	1.2 J
7440-38-2	ARSENIC	13	16	16	mg/Kg	6.5 J	20 J	9.3 J	17.1 J	9.9 J	6 J
7440-39-3	BARIUM	350	400	10000	mg/Kg	64.4	34.8	104	160	69.5	38.3
7440-41-7	BERYLLIUM	7.2	590	2700	mg/Kg	0.24 J	0.27	0.28	0.49	0.28	0.21
7440-43-9	CADMIUM	2.5	9.3	60	mg/Kg	0.048 J	0.16 J	0.042 J	0.5	0.043 J	0.11 J
7440-70-2	CALCIUM	NS	NS	NS	mg/Kg	53400	89700	30500	13100	20400	26900
16065-83-1	CHROMIUM III	30	1500	6800	mg/Kg	10	6.3	10	15	8.8	6.7
7440-47-3	CHROMIUM, TOTAL	NS	NS	NS	mg/Kg	10.3	6.3	10.2	15.1	8.8	6.7
7440-48-4	COBALT	NS	NS	NS	mg/Kg	5	3.6	5.4	8.2	5.5	4.1
7440-50-8	COPPER	50	270	10000	mg/Kg	62.9 J	105 J	39.6 J	110 J	25.5 J	23.8 J
7439-89-6	IRON	NS	NS	NS	mg/Kg	14600	26600	15800	20800	16000	11700
7439-92-1	LEAD	63	1000	3900	mg/Kg	38.9 J	104 J	80.7 J	246 J	22.5 J	13 J
7439-95-4	MAGNESIUM	NS	NS	NS	mg/Kg	6080	36100	4190	3900	4050	3130
7439-96-5	MANGANESE	1600	10000	10000	mg/Kg	615	302	554	560	793	366
7439-97-6	MERCURY	0.18	2.8	5.7	mg/Kg	0.051	0.057	0.05	1.4	0.028 J	0.035 J
7440-02-0	NICKEL	30	310	10000	mg/Kg	15.9	11.6	15.6	22.3	13.9	11
7440-09-7	POTASSIUM	NS	NS	NS	mg/Kg	782	847	725	973	706	561
7782-49-2	SELENIUM	3.9	1500	6800	mg/Kg	ND	ND	0.57 J	1.4 J	0.95 J	0.55 J
7440-22-4	SILVER	2	1500	6800	mg/Kg	0.14 J	0.42 J	0.28 J	0.59 J	0.18 J	0.071 J
7440-23-5	SODIUM	NS	NS	NS	mg/Kg	182	258	208	103	160	170
7440-28-0	THALLIUM	NS	NS	NS	mg/Kg	0.86 J	2.3	0.42 J	ND	ND	0.25 J
7440-62-2	VANADIUM	NS	NS	NS	mg/Kg	13.2	6.9	13.4	14.9	11.2	9.6
7440-66-6	ZINC	109	10000	10000	mg/Kg	80.9	76	82.8	260	70.1	56.5
	OTHER										
MOIST	MOISTURE, PERCENT	NS	NS	NS	%	9.8 J	6.8 J	9.5 J	16	6.3 J	9.6 J

- Exceeds the Unrestricted SCO
- Exceeds the Commercial SCO
- Exceeds the Industrial SCO

J - Estimated Result
ND - Not Detected
NS - No Standard

FIGURES



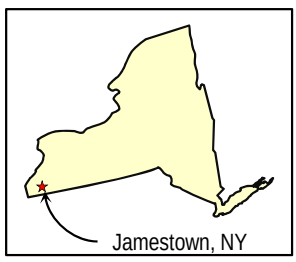


FIGURE 1

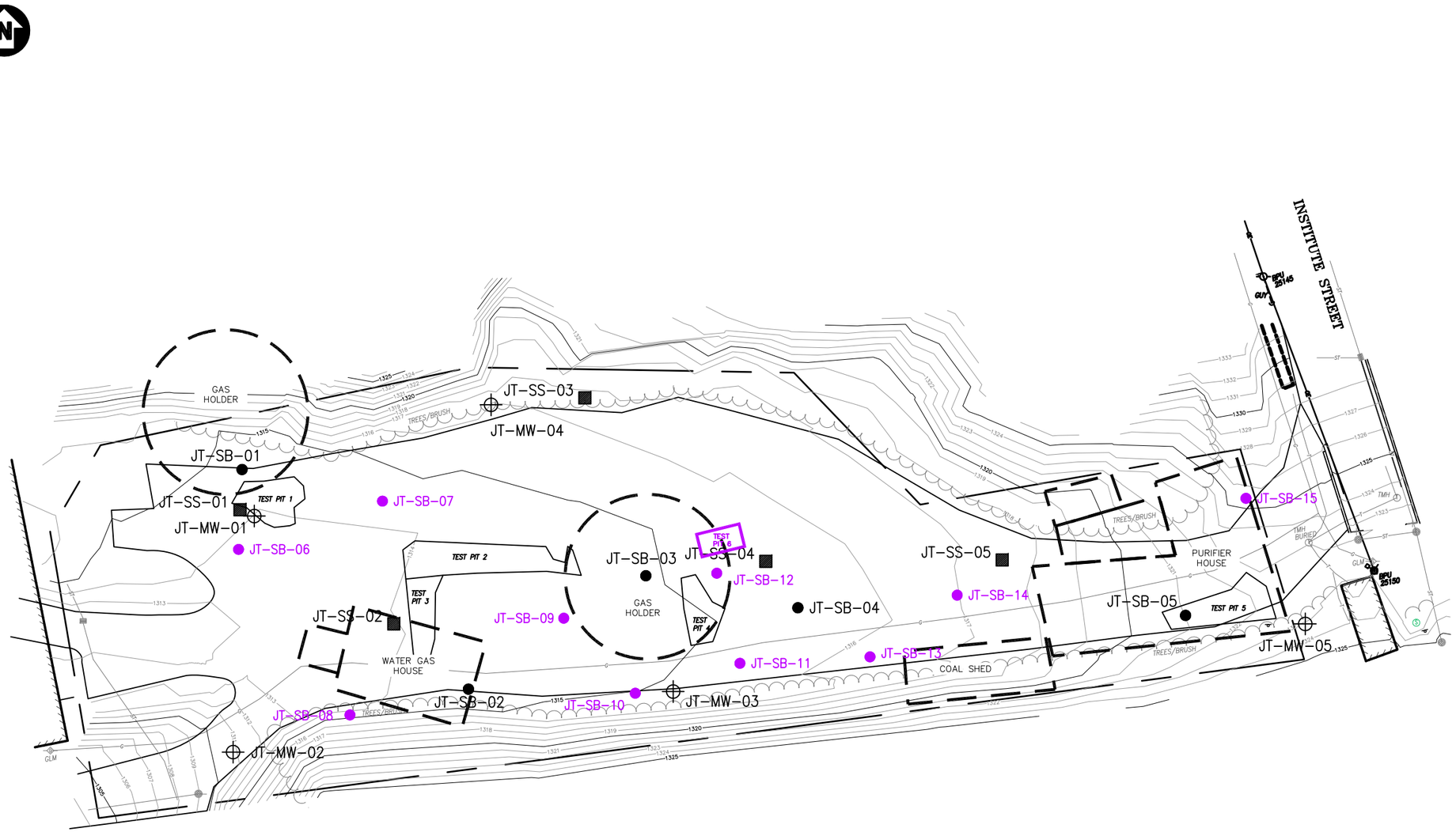
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

Former Jamestown MGP Site

SITE LOCATION MAP

P:\ P:\NYSDEC Program\447950 WA #11 - Former Jamestown MGP Site Characterization\10.0 Technical\Graphics\slm.pptx

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 PHONE: (315) 451-9560



50 25 0 50 100

SCALE: 1"=50'

FIGURE 2

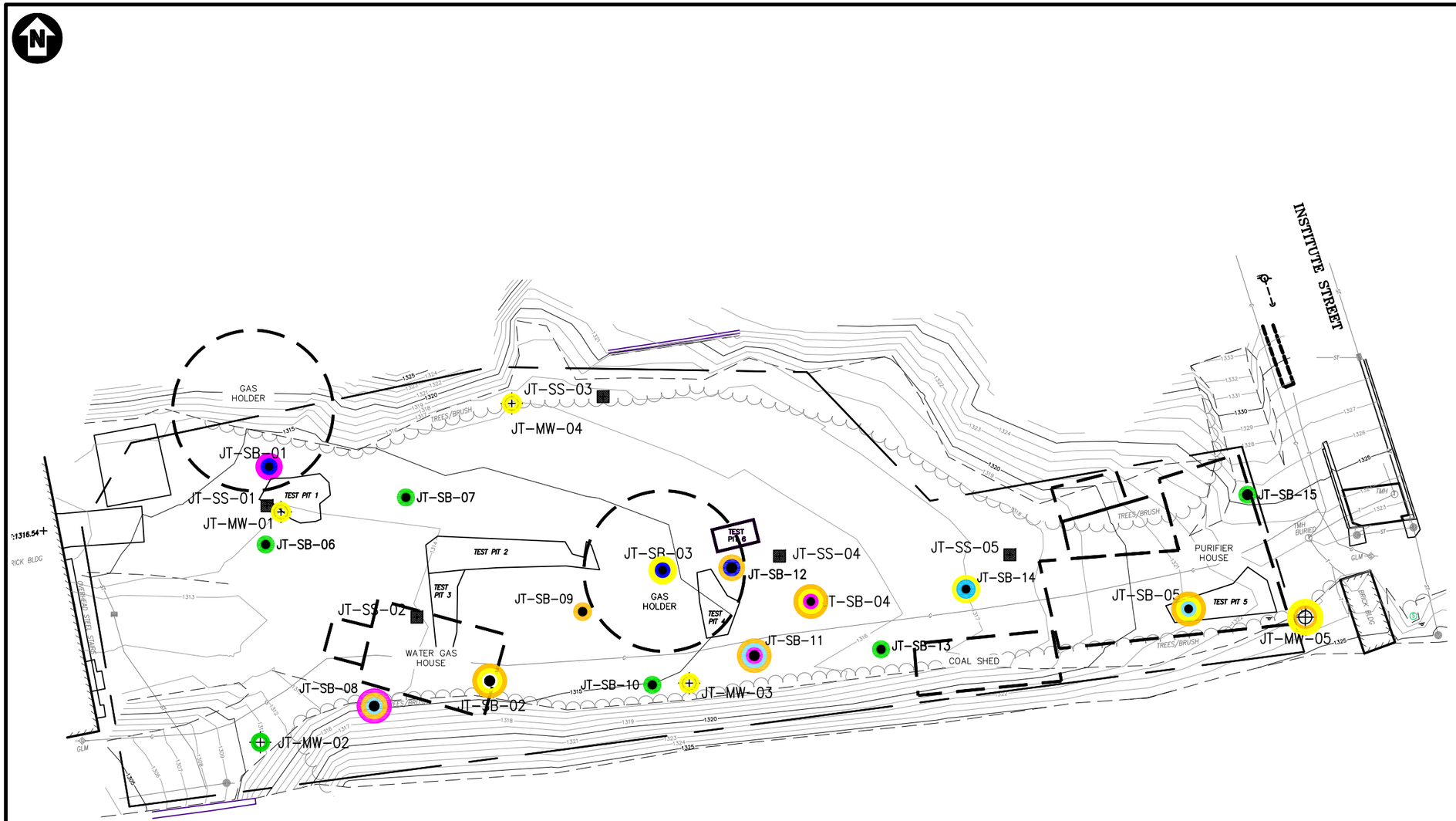
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

SAMPLE LOCATION MAP

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 – FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2015\447950-SK001-2015.DWG
PLOT DATE:12/29/2015 PLOTTED BY: RUSSO, JILL



LEGEND:

- INVESTIGATION AREA BOUNDARY
- SOIL BORINGS
- MONITORING WELL LOCATIONS
- SURFACE SOIL SAMPLE LOCATIONS
- TEST PIT LOCATIONS
- FORMER MGP STRUCTURES

STANDARD COLORS FOR REPORTING MGP IMPACTS

- TAR SATURATED
- COATED MATERIAL, LENSES
- HARDENED TAR
- BLEBS, GLOBS, SHEEN
- STAINING, ODOR
- PETROLEUM IMPACTS SATURATION & SHEENS
- PETROLEUM IMPACTS STAINING & ODORS
- PURIFIER WASTE AND ODOR
- NO OBSERVED IMPACTS

50 25 0 50 100

SCALE: 1"=50'

FIGURE 3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

2013 AND 2015 SUBSURFACE VISUAL AND OLIFACTRY OBSERVATIONS

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 - FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2015\447950-SK004-2015.DWG
PLOT DATE:2/1/2016 PLOTTED BY: RUSSO, JILL

FIGURE 4

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

2013 AND 2015 PURIFIER WASTE AND ODOR OBSERVATIONS

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

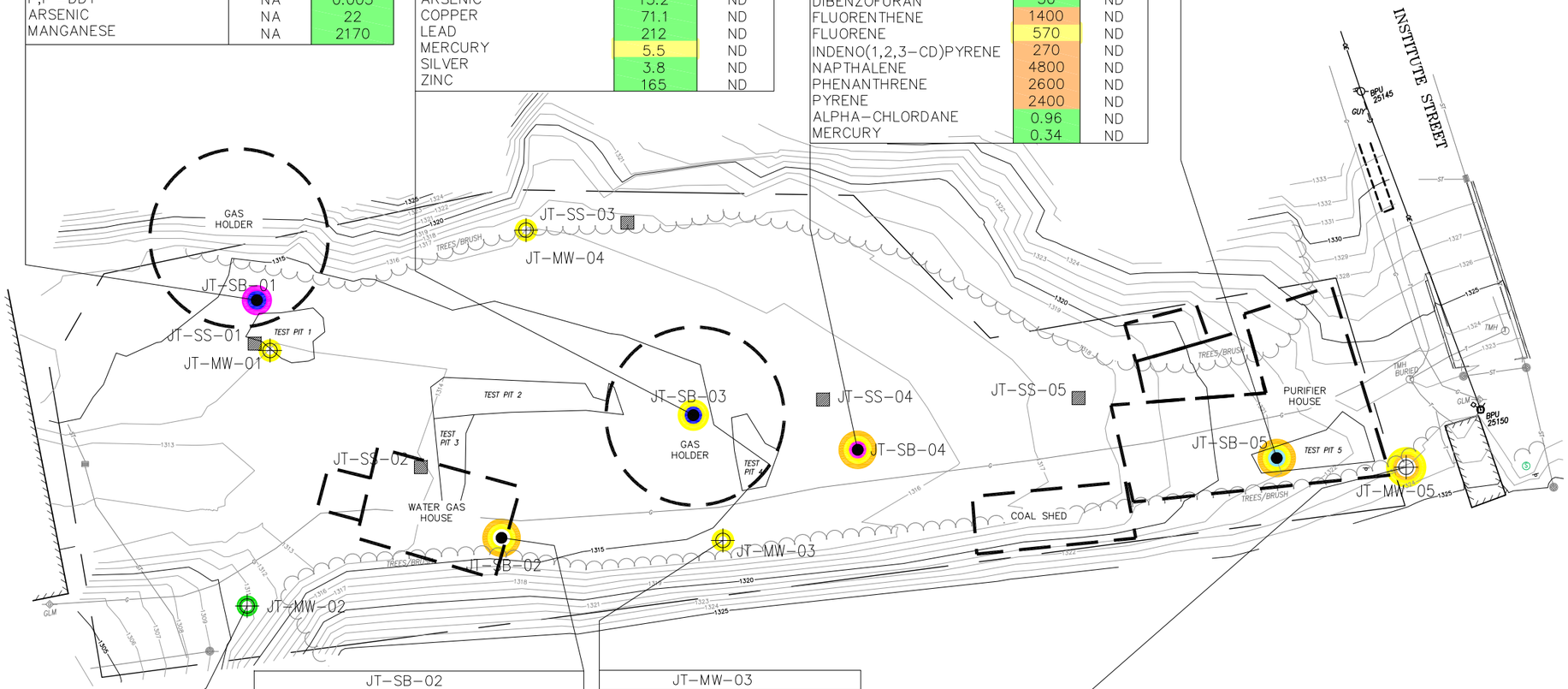
FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 – FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2015\447950-SK006-2015.DWG
PLOT DATE:9/27/2016 PLOTTED BY: RUSSO, JILL

JT–SB–01		
	4–6'	10–12'
1,2,4–TRIMETHYLBENZENE	0.36	3.9
BENZENE	0.18	1.5
DIMETHYLBENZENE	3.9	3.9
ETHYLBENZENE	0.52	5.9
TOTAL XYLENES	3.9	3.94
TOLUENE	2.9	0.86
BENZO(a)PYRENE	0.19	1.2
INDENO(1,2,3–CD)PYRENE	0.14	0.81
P,P' DDD	NA	0.011
P,P'–DDT	NA	0.005
ARSENIC	NA	22
MANGANESE	NA	2170

JT–SB–03		
	20–22'	26–28'
BENZENE	0.64	ND
DIMETHYLBENZENE	5.9	ND
ETHYLBENZENE	8.7	ND
TOTAL XYLENES	5.9	ND
BENZO(a)ANTHRACENE	1.6	ND
BENZO(a)PYRENE	1.3	ND
BENZO(b)FLUORANTHENE	1.6	ND
CHRYSENE	1.7	ND
INDENO(1,2,3–CD)PYRENE	0.88	ND
ARSENIC	13.2	ND
COPPER	71.1	ND
LEAD	212	ND
MERCURY	5.5	ND
SILVER	3.8	ND
ZINC	165	ND

JT–SB–04		
	9–11'	31–33'
1,2,4 TRIMETHYIBENZENE	200	ND
ACENAPHTHENE	1300	ND
ACENAPHTHYLENE	700	ND
ANTHRACENE	620	ND
BENZO(a)ANTHRACENE	370	ND
BENZO(a)PYRENE	470	ND
BENZO(b)FLUORANTHENE	340	ND
BENZO (g,h,i) PERYLENE	500	ND
CHRYSENE	380	ND
DIBENZOFURAN	30	ND
FLUORENTHENE	1400	ND
FLUORENE	570	ND
INDENO(1,2,3–CD)PYRENE	270	ND
NAPTHALENE	4800	ND
PHENANTHRENE	2600	ND
PYRENE	2400	ND
ALPHA–CHLORDANE	0.96	ND
MERCURY	0.34	ND

JT–SB–05		
	21–23'	37–39'
BENZO(a)ANTHRACENE	ND	3.7
BENZO(a)PYRENE	ND	4.2
BENZO(b)FLUORANTHENE	ND	3.6
CHRYSENE	ND	3.3
DIBENZ(a,h) ANTHRACENE	ND	0.34
INDENO(1,2,3–CD)PYRENE	ND	2.6
ARSENIC	16.2	NA



JT–MW–02		
	13–15'	23–25'
ARSENIC	24.7	NA

JT–SB–02		
	15–17'	31–33'
1,2,4–TRIMETHYLBENZENE	88	ND
ETHYLBENZENE	40	ND
ACENAPHTHENE	420	ND
ANTHRACENE	190	ND
BENZO(a)ANTHRACENE	98	ND
BENZO(a)PYRENE	120	ND
BENZO(b)FLUORANTHENE	82	ND
BENZO (g,h,i) PERYLENE	110	ND
CHRYSENE	94	ND
DIBENZ(a,h)ANTHRACENE	9.5	ND
FLUORENTHENE	320	ND
FLUORENE	140	ND
INDENO(1,2,3–CD)PYRENE	63	ND
NAPTHALENE	820	ND
PHENANTHRENE	650	ND
PYRENE	540	ND
ALDRIN	0.069	ND
ARSENIC	16.5	ND
COPPER	65.9	ND
MERCURY	0.35	ND

JT–MW–03		
	11–13'	31–33'
BENZENE	0.81	0.0043
TOTAL XYLENES	0.316	0.0018
LEAD	107	NA
MERCURY	0.87	NA

JT–MW–05		
	9–11'	23–25'
1,2,4–TRIMETHYLBENZENE	6.6	0.65
DIMETHYLBENZENE	2.7	0.14
TOTAL XYLENES	3.7	0.21
BENZO(a)ANTHRACENE	8.5	1.2
BENZO(a)PYRENE	5.7	0.85
BENZO(b)FLUORANTHENE	6.3	0.99
BENZO(k)FLUORANTHENE	2.8	0.3
CHRYSENE	7.8	1.1
DIBENZOFURAN	13	0.86
DIBENZ(a,h)ANTHRACENE	0.68	ND
INDENO(1,2,3–CD)PYRENE	3.2	0.47
NAPTHALENE	22	0.95
P,P'–DDE	0.0085	NA
P,P'–DDT	0.013	NA

LEGEND:

- INVESTIGATION AREA BOUNDARY
- SOIL BORINGS
- MONITORING WELL LOCATIONS
- SURFACE SOIL SAMPLE LOCATIONS
- TEST PIT LOCATIONS
- FORMER MGP STRUCTURES

NA – NOT ANALYZED

ND – NOT DETECTED

RESULTS IN mg/kg

- – EXCEEDANCE OF THE 6 NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVE
- – EXCEEDANCE OF THE 6NYCRR PART 375 COMMERCIAL USE SOIL CLEANUP OBJECTIVE
- – EXCEEDANCE OF THE 6NYCRR PART 375 INDUSTRIAL USE SOIL CLEANUP OBJECTIVE

NOTE: NO EXCEEDANCES OF THE 6NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVE WERE REPORTED FOR SAMPLES COLLECTED AT JT–MW–01 AND JT–MW–04

50 25 0 50 100

SCALE: 1"=50'

STANDARD COLORS FOR REPORTING MGP IMPACTS

- TAR SATURATED
- COATED MATERIAL, LENSES
- HARDENED TAR
- BLEBS, GLOBS, SHEEN
- STAINING, ODOR
- PETROLEUM IMPACTS SATURATION & SHEENS
- PETROLEUM IMPACTS STAINING & ODORS
- PURIFIER WASTE AND ODOR
- NO OBSERVED IMPACTS

FIGURE 5

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

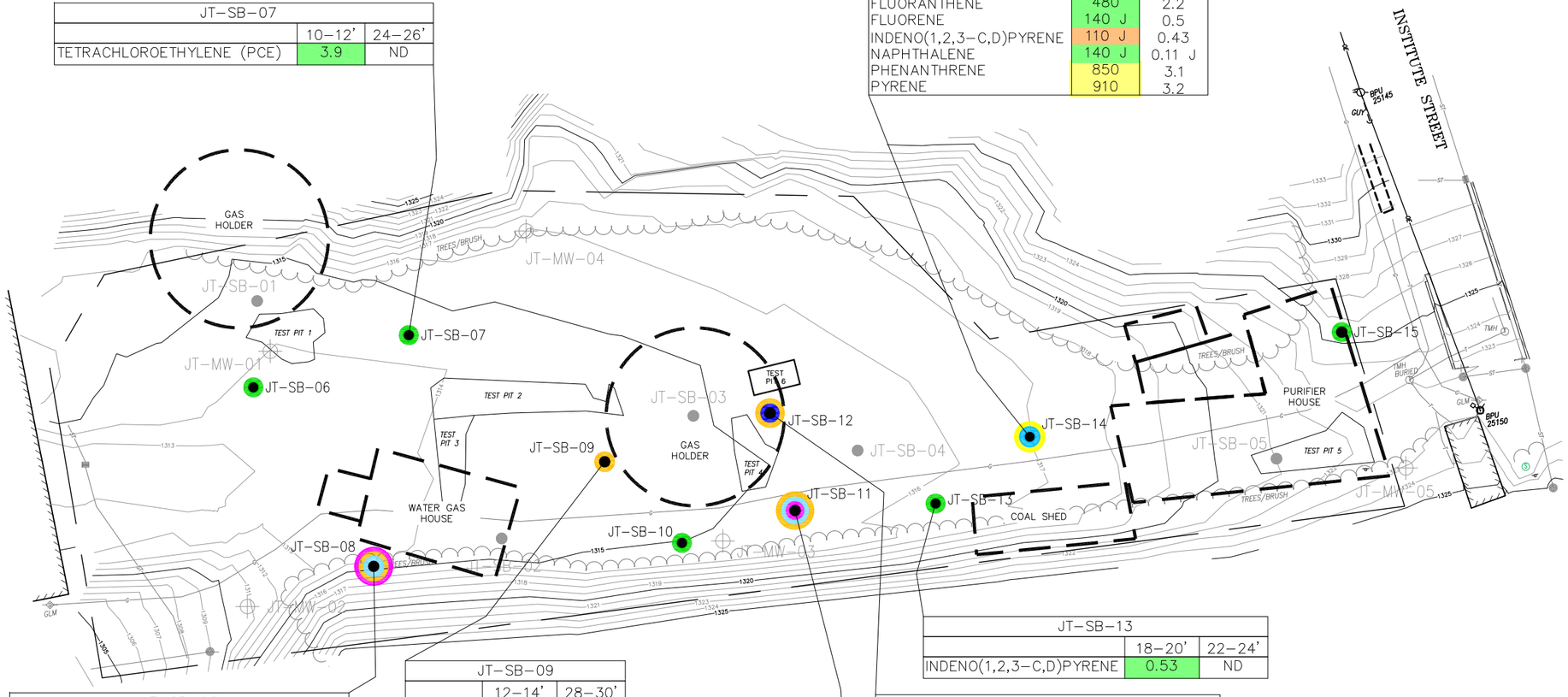
2013 SUBSURFACE SOIL EXCEEDANCES, VISUAL AND OLFACTORY OBSERVATIONS

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315–451–9560

FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 – FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2013\447950–SK004.DWG
PLOT DATE:3/5/2014 PLOTTED BY: RUSSO, JILL

JT–SB–07		
	10–12’	24–26’
TETRACHLOROETHYLENE (PCE)	3.9	ND

JT–SB–14		
	12–14’	28–30’
BENZENE	0.066	ND
ACENAPHTHENE	190 J	0.42
ACENAPHTHYLENE	160 J	0.59
ANTHRACENE	180 J	1.2
BENZO(A)ANTHRACENE	160 J	0.6
BENZO(A)PYRENE	170 J	0.74
BENZO(B)FLUORANTHENE	130 J	0.58
BENZO(G,H,I)PERYLENE	170 J	0.64
CHRYSENE	140 J	0.7
FLUORANTHENE	480	2.2
FLUORENE	140 J	0.5
INDENO(1,2,3–C,D)PYRENE	110 J	0.43
NAPHTHALENE	140 J	0.11 J
PHENANTHRENE	850	3.1
PYRENE	910	3.2



JT–SB–08		
	8–10’	28–30’
DIMETHYL BENZENE	1.7	ND
ETHYLBENZENE	2.2	ND
XYLENE TOTAL	1.65	ND
ACENAPHTHENE	110	0.9
BENZO(A)ANTHRACENE	38	0.42
BENZO(A)PYRENE	46	0.61
BENZO(B)FLUORANTHENE	30 J	0.39 J
BENZO(K)FLUORANTHENE	12 J	0.14 J
CHRYSENE	34	0.42
FLUORANTHENE	130	1.5
FLUORENE	43	0.41
INDENO(1,2,3–C,D)PYRENE	29 J	0.39 J
NAPHTHALENE	130	0.55
PHENANTHRENE	220	2.2
PYRENE	240	2.4

JT–SB–09		
	12–14’	28–30’
ACETONE	0.0075 J	0.052

JT–SB–11		
	24–25.1’	28–30’
1,2,4–TRIMETHYLBENZENE	19 J	0.17
1,3,5–TRIMETHYLBENZENE	11 J	0.088
BENZENE	0.085	0.095
DIMETHYL BENZENE	32 J	0.38
ETHYLBENZENE	38	0.53 J
TOLUENE	3.7 J	0.051
XYLENE TOTAL	32.5	0.38
BENZO(A)ANTHRACENE	6.2	1.8
BENZO(A)PYRENE	9.1	2
BENZO(B)FLUORANTHENE	6.6	1.8
BENZO(K)FLUORANTHENE	2.7	0.88
CHRYSENE	6.5	1.8
DIBENZO(A,H)ANTHRACENE	0.59	0.18 J
INDENO(1,2,3–C,D)PYRENE	6.2	1.3
NAPHTHALENE	29	2.5

JT–SB–13		
	18–20’	22–24’
INDENO(1,2,3–C,D)PYRENE	0.53	ND

JT–SB–12		
	8–10’	24–24.3’
INDENO(1,2,3–C,D)PYRENE	ND	0.68

LEGEND:

- INVESTIGATION AREA BOUNDARY
- SOIL BORINGS (2015)
- SOIL BORINGS (2013)
- MONITORING WELLS (2013)
- TEST PIT LOCATIONS
- FORMER MGP STRUCTURES

ND – NOT DETECTED

RESULTS IN mg/kg

- – EXCEEDANCE OF THE 6 NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVE
- – EXCEEDANCE OF THE 6NYCRR PART 375 COMMERCIAL USE SOIL CLEANUP OBJECTIVE
- – EXCEEDANCE OF THE 6NYCRR PART 375 INDUSTRIAL USE SOIL CLEANUP OBJECTIVE

NOTE: NO EXCEEDANCES OF THE 6NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVE WERE REPORTED FOR SAMPLES COLLECTED AT JT–SB–06, JT–SB–10, AND JT–SB–15.

STANDARD COLORS FOR REPORTING MGP IMPACTS

- TAR SATURATED
- COATED MATERIAL, LENSES
- HARDENED TAR
- BLEBS, GLOBS, SHEEN
- STAINING, ODOR
- PETROLEUM IMPACTS SATURATION & SHEENS
- PETROLEUM IMPACTS STAINING & ODORS
- PURIFIER WASTE AND ODOR
- NO OBSERVED IMPACTS

50 25 0 50 100

SCALE: 1”=50’

FIGURE 6

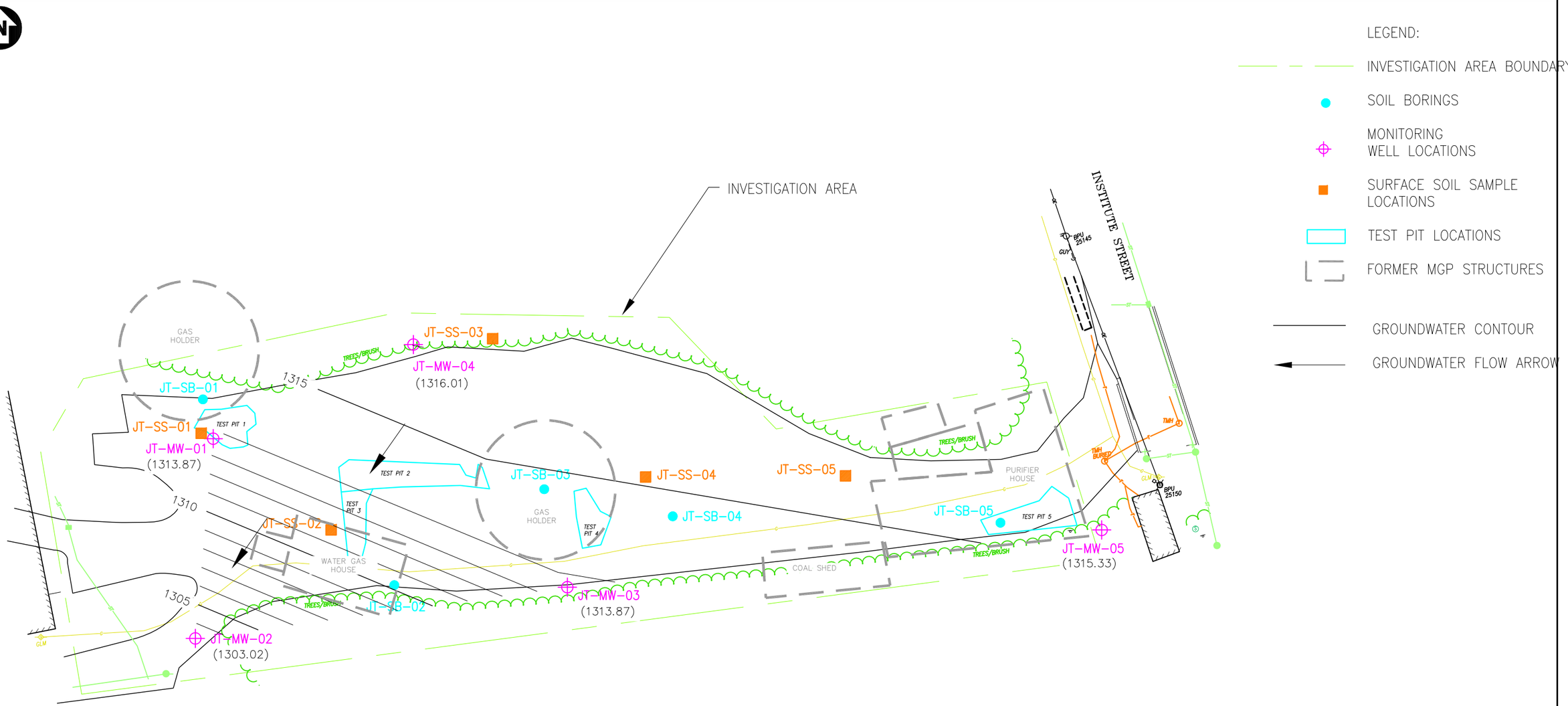
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

2015 SUBSURFACE SOIL EXCEEDANCES, VISUAL AND OLFACTORY OBSERVATIONS

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315–451–9560

FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 – FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2015\447950–SK002–2015.DWG
PLOT DATE 12/30/2015 PLOTTED BY RUSSO, JILL



SURVEY NOTES:

1. COORDINATES AND NORTH ORIENTATION SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, TRANSVERSE MERCATOR PROJECTION, NAD 83/96 USING GPS PROCEDURES AND THE NEW YORK STATE DOT CORS NETWORK.

2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 USING GPS PROCEDURES.

FIGURE 7

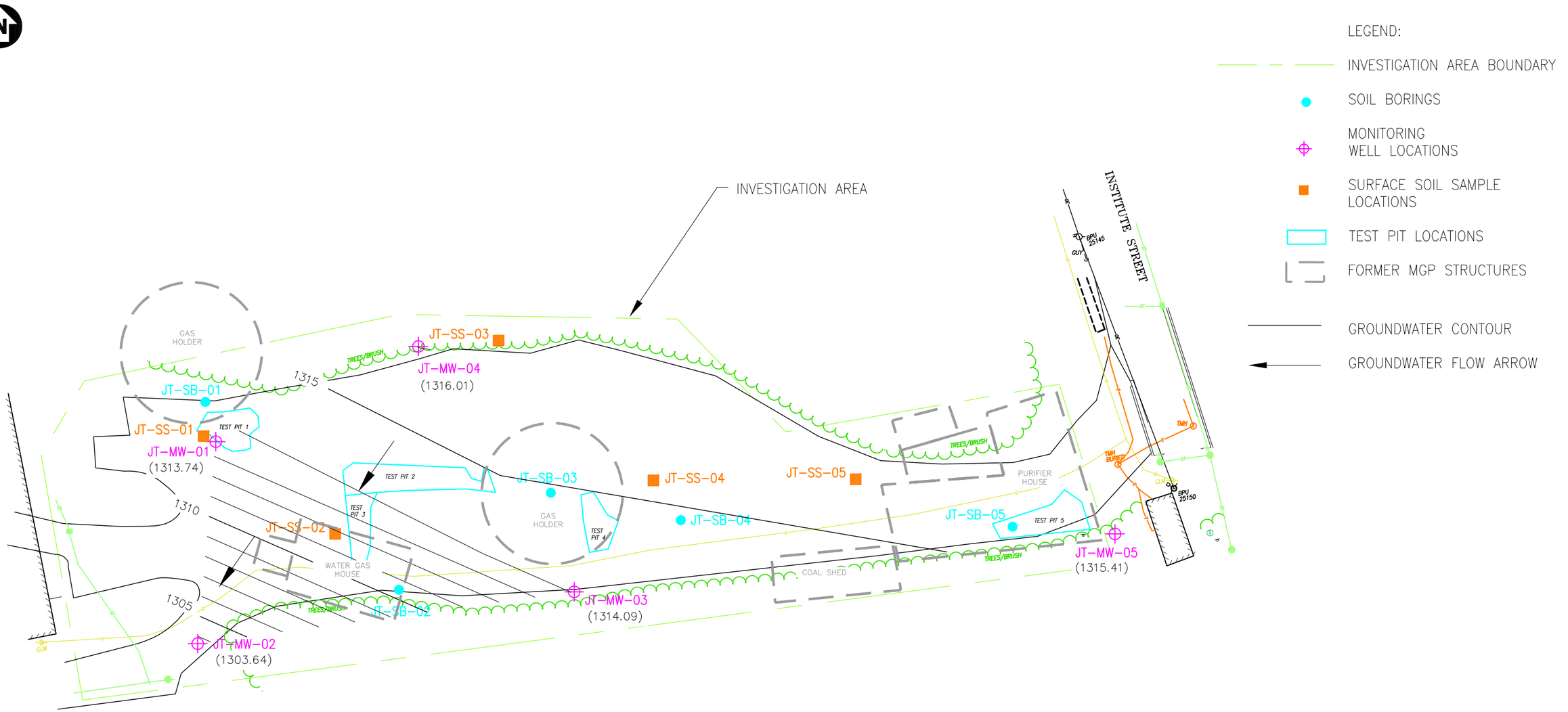
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

GROUNDWATER CONTOURS JULY 2013

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 - FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2013\447950-SK003-GW 7-13.DWG
PLOT DATE 7/5/2014 PLOTTED BY RUSSO, JILL



SURVEY NOTES:

1. COORDINATES AND NORTH ORIENTATION SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, TRANSVERSE MERCATOR PROJECTION, NAD 83/96 USING GPS PROCEDURES AND THE NEW YORK STATE DOT CORS NETWORK.

2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 USING GPS PROCEDURES.

FIGURE 8

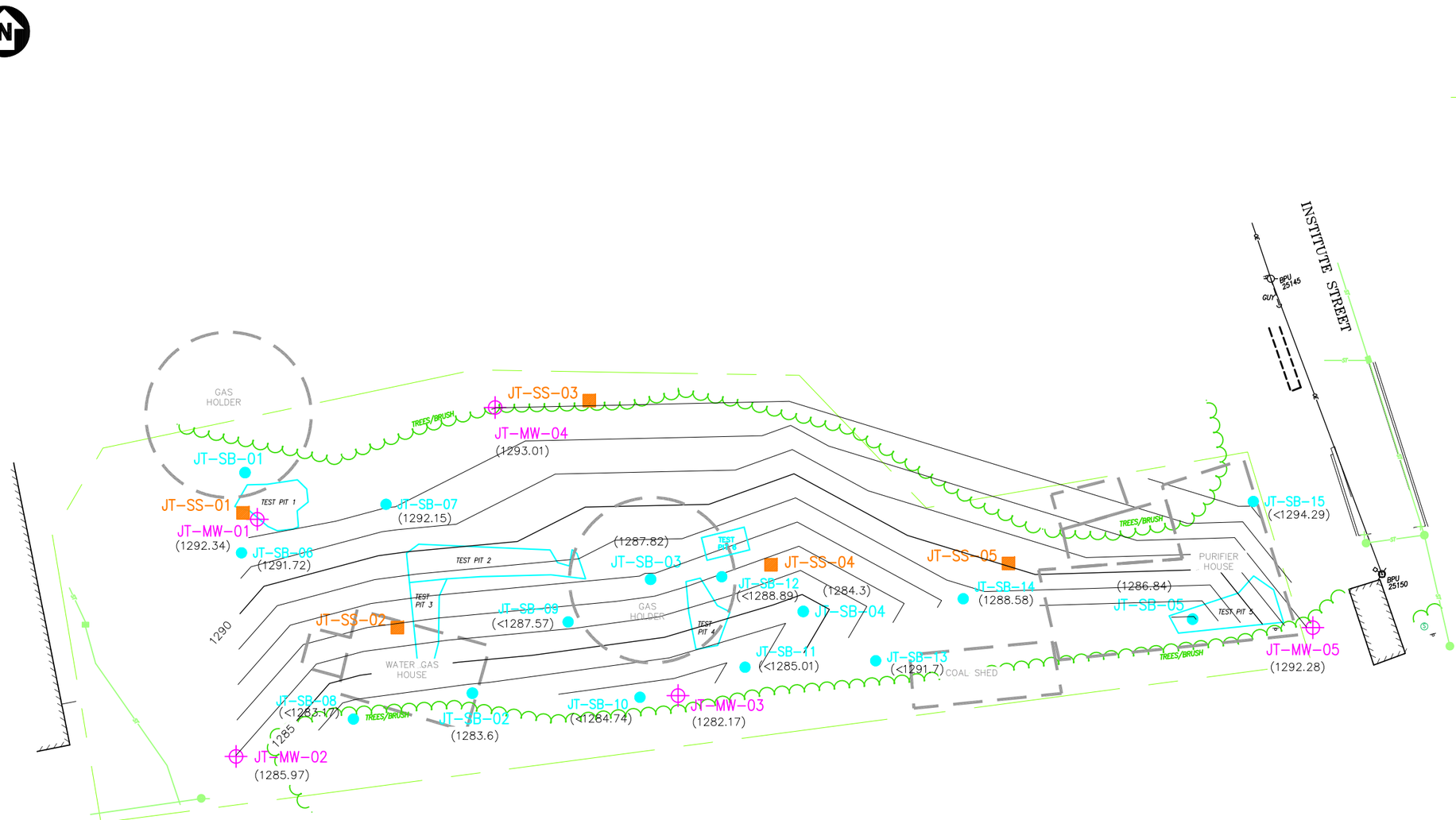
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

GROUNDWATER CONTOURS NOVEMBER 2013

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 - FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2013\447950-SK003-GW 11-13.DWG
PLOT DATE:3/5/2014 PLOTTED BY: RUSSO, JILL



SURVEY NOTES:

1. COORDINATES AND NORTH ORIENTATION SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, TRANSVERSE MERCATOR PROJECTION, NAD 83/96 USING GPS PROCEDURES AND THE NEW YORK STATE DOT CORS NETWORK.

2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 USING GPS PROCEDURES.

FIGURE 9

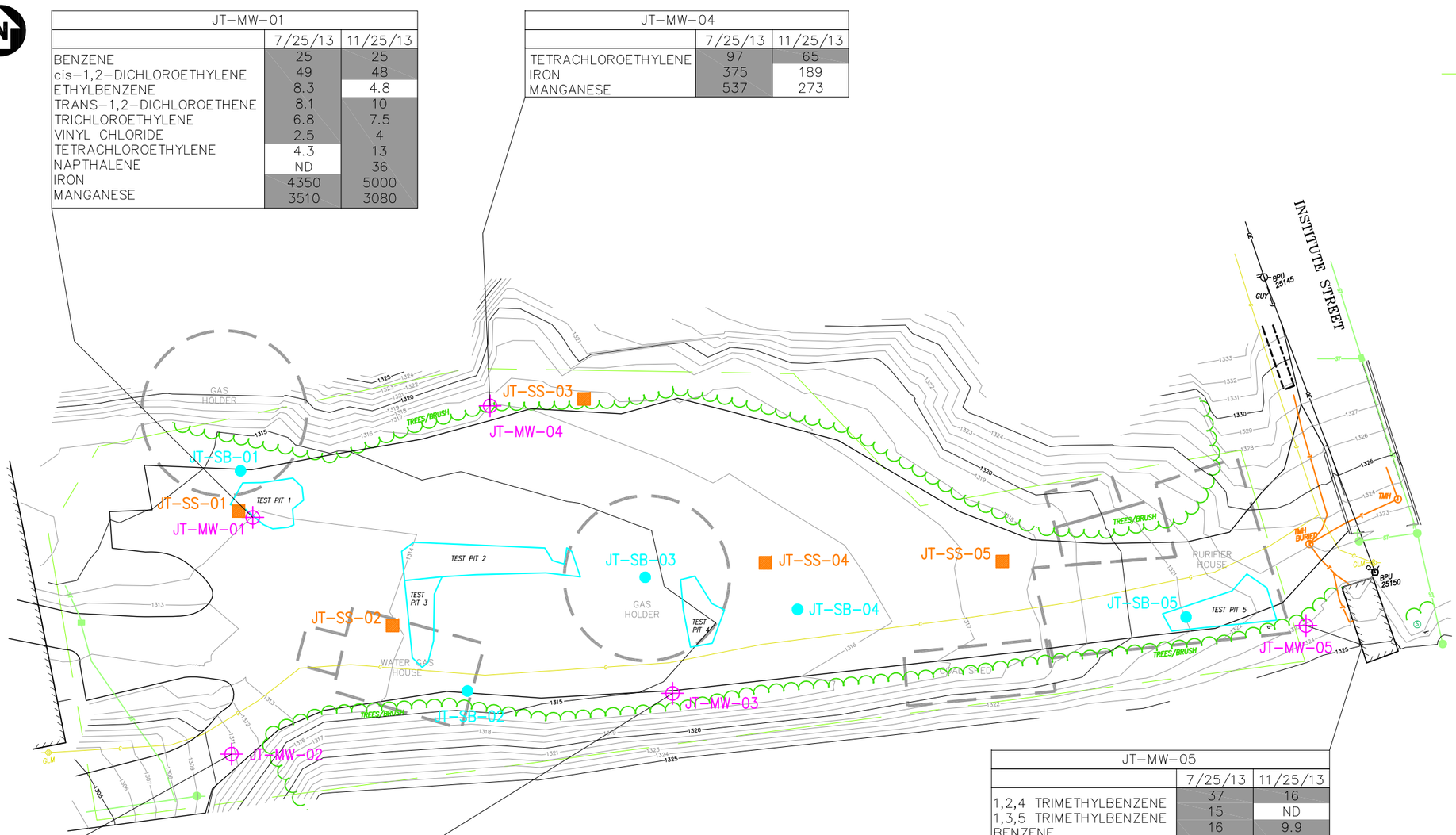
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

CONFINING UNIT CONTOURS

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 – FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2015\447950-SK005-2015.DWG
PLOT DATE:2/1/2016 PLOTTED BY: RUSSO, JILL



JT-MW-01		
	7/25/13	11/25/13
BENZENE	25	25
cis-1,2-DICHLOROETHYLENE	49	48
ETHYLBENZENE	8.3	4.8
TRANS-1,2-DICHLOROETHENE	8.1	10
TRICHLOROETHYLENE	6.8	7.5
VINYL CHLORIDE	2.5	4
TETRACHLOROETHYLENE	4.3	13
NAPTHALENE	ND	36
IRON	4350	5000
MANGANESE	3510	3080

JT-MW-04		
	7/25/13	11/25/13
TETRACHLOROETHYLENE	97	65
IRON	375	189
MANGANESE	537	273

JT-MW-02		
	7/25/13	11/25/13
ARSENIC	34.9	27.2
IRON	2680	3550
MANGANESE	3210	3850

JT-MW-03		
	7/25/13	11/25/13
BENZENE	3.8	3.1
ANTIMONY	11.4	ND
IRON	1150	1880
MANGANESE	1070	756
SELENIUM	13.4	12.9

JT-MW-05		
	7/25/13	11/25/13
1,2,4 TRIMETHYLBENZENE	37	16
1,3,5 TRIMETHYLBENZENE	15	ND
BENZENE	16	9.9
DIMETHYLBENZENE	50	17
ETHYLBENZENE	11	5.1
TOLUENE	20	9
TOTAL XYLENE	50	16.8
2-METHYLPHENOL	5.7	2.4
4-METHYLPHENOL	3.6	ND
ACENAPHTHENE	120	120
FLUORENE	76	73
NAPTHALENE	100	260
PHENANTHRENE	67	68
ALPHA BHC	0.051	0.11
IRON	2310	5150
MANGANESE	4190	2680

LEGEND:

- INVESTIGATION AREA BOUNDARY
- SOIL BORINGS
- MONITORING WELL LOCATIONS
- SURFACE SOIL SAMPLE LOCATIONS
- TEST PIT LOCATIONS
- FORMER MGP STRUCTURES

NA – NOT ANALYZED

ND – NOT DETECTED

– EXCEEDANCE OF THE CLASS GA STANDARD OF THE NYSDEC AMBIENT WATER QUALITY STANDARDS/GUIDANCE CRITERIA

RESULTS IN ug/L

50 25 0 50 100

SCALE: 1"=50'

SURVEY NOTES:

1. COORDINATES AND NORTH ORIENTATION SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, TRANSVERSE MERCATOR PROJECTION, NAD 83/96 USING GPS PROCEDURES AND THE NEW YORK STATE DOT CORS NETWORK.

2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 USING GPS PROCEDURES.

FIGURE 10

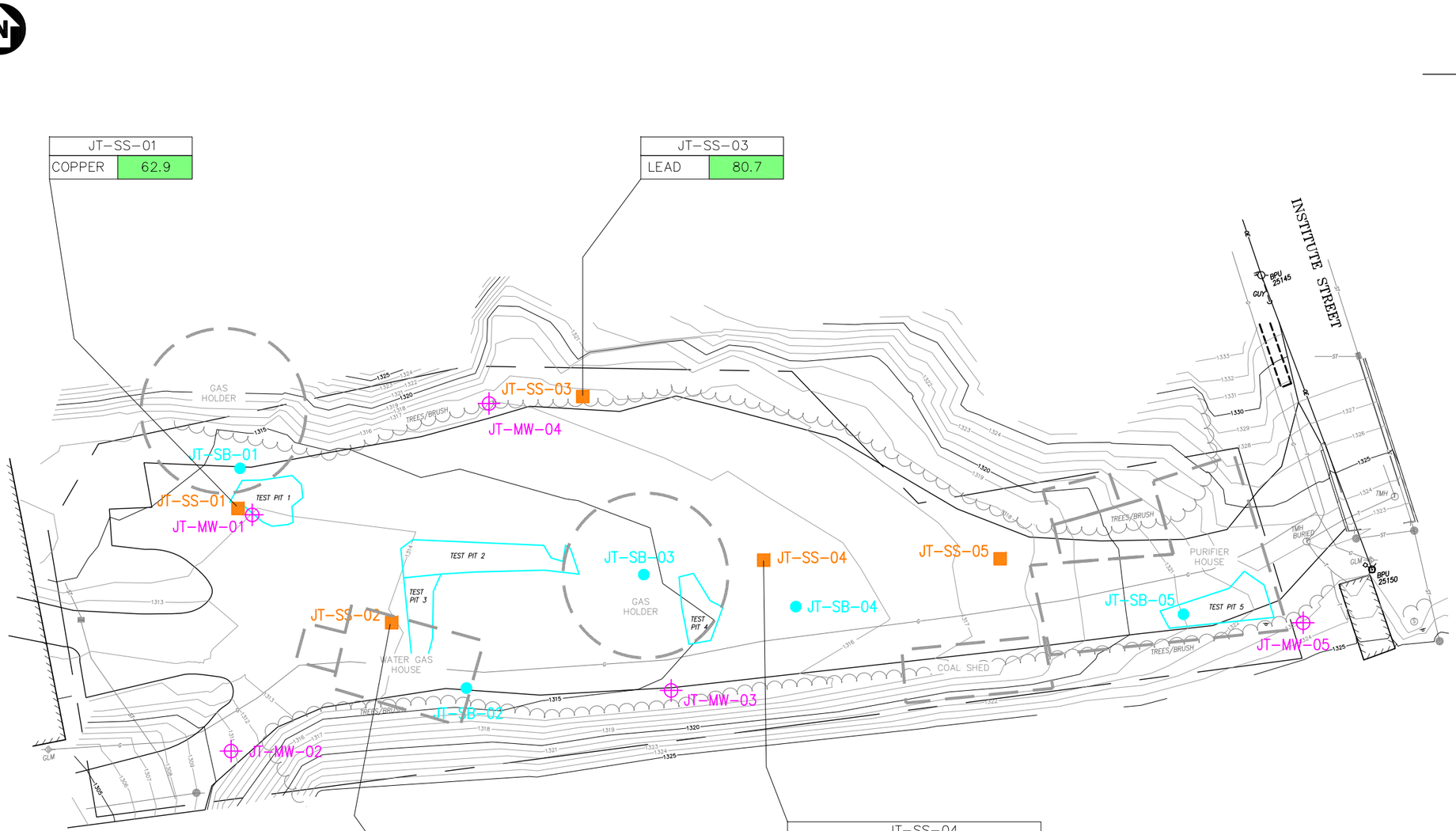
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

GROUNDWATER EXCEEDANCES

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 – FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2013\447950-SK005.DWG
PLOT DATE:3/6/2014 PLOTTED BY: RUSSO, JILL



LEGEND:

- INVESTIGATION AREA BOUNDARY
- SOIL BORINGS
- MONITORING WELL LOCATIONS
- SURFACE SOIL SAMPLE LOCATIONS
- TEST PIT LOCATIONS
- FORMER MGP STRUCTURES

NA – NOT ANALYZED

ND – NOT DETECTED

RESULTS IN mg/kg

– EXCEEDANCE OF THE 6 NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVE

– EXCEEDANCE OF THE 6NYCRR PART 375 COMMERCIAL USE SOIL CLEANUP OBJECTIVE

– EXCEEDANCE OF THE 6NYCRR PART 375 INDUSTRIAL USE SOIL CLEANUP OBJECTIVE

NOTE: NO EXCEEDANCES OF THE 6NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVE AT JT-SS-05

JT-SS-02	
INDENO (1,2,3-CD) PYRENE	0.53
ARSENIC	20
COPPER	105
LEAD	104

JT-SS-04	
BENZO(a)ANTHRACENE	2.8
BENZO(a)PYRENE	2.7
BENZO(b)FLUORANTHENE	3.5
CHRYSENE	3.2
DIBENZO(a,h)ANTHRACENE	0.43
INDENO (1,2,3-CD) PYRENE	2
ARSENIC	17.1
COPPER	110
LEAD	246
MERCURY	1.4
ZINC	260

SURVEY NOTES:

1. COORDINATES AND NORTH ORIENTATION SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, TRANSVERSE MERCATOR PROJECTION, NAD 83/96 USING GPS PROCEDURES AND THE NEW YORK STATE DOT CORS NETWORK.

2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 USING GPS PROCEDURES.

50 25 0 50 100

SCALE: 1"=50'

FIGURE 11

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

JAMESTOWN FORMER MGP SITE

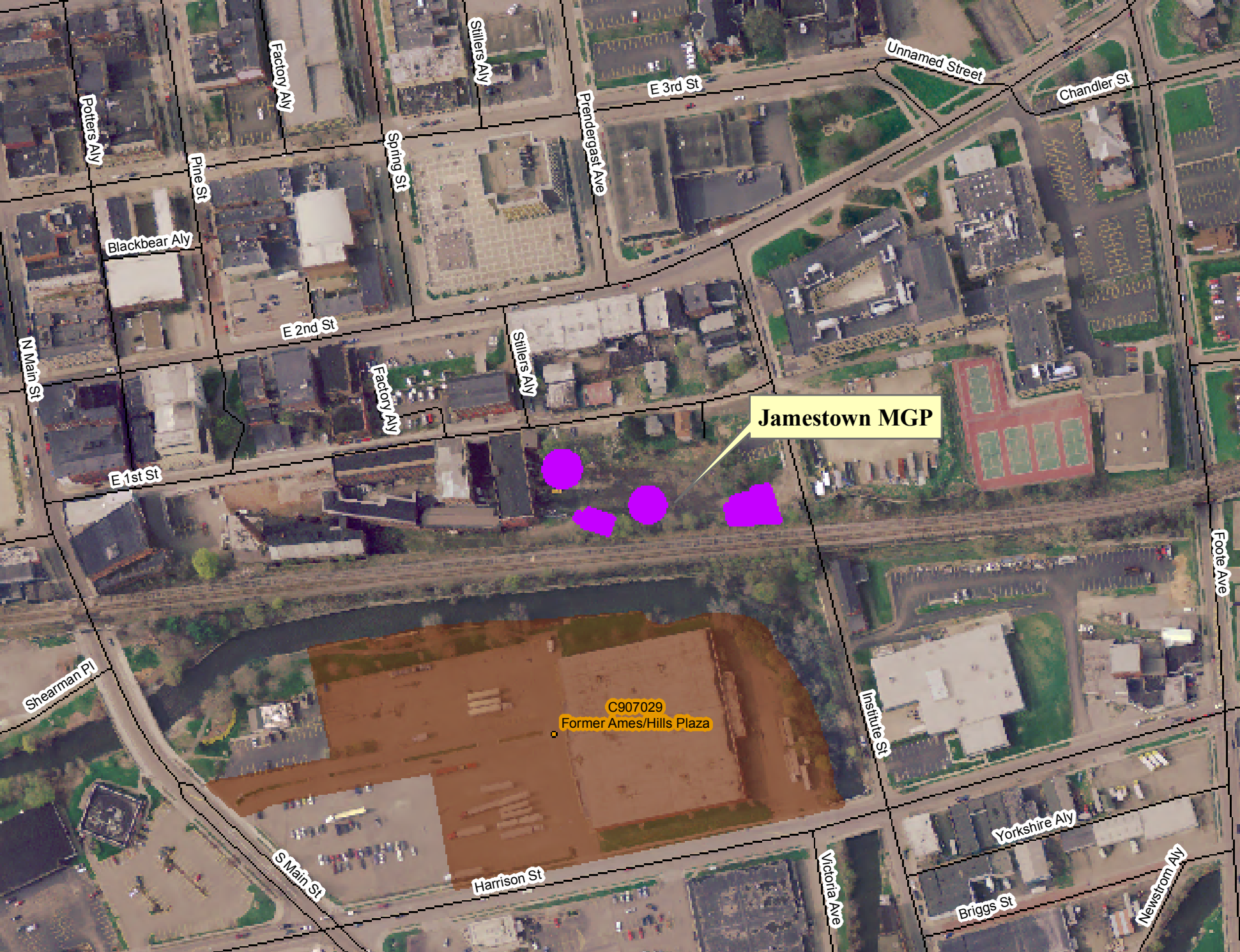
SURFACE SOIL EXCEEDANCES

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

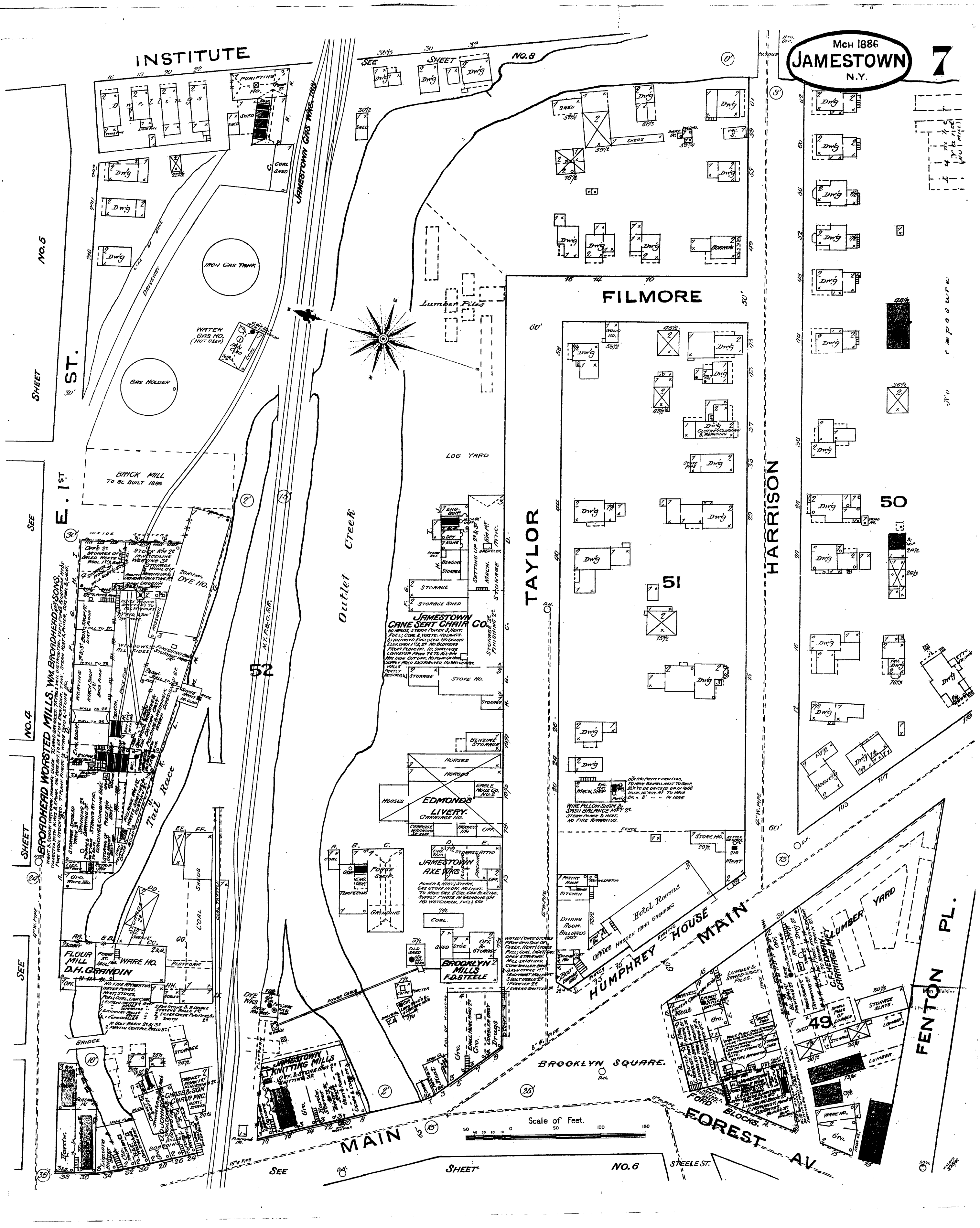
FILE NAME: P:\NYSDEC PROGRAM\447950 WA #11 – FORMER JAMESTOWN MGP SITE CHARACTERIZATION\10.0 TECHNICAL\CAD\FIGURES\2013\447950-SK006.DWG
PLOT DATE:3/6/2014 PLOTTED BY: RUSSO, JILL

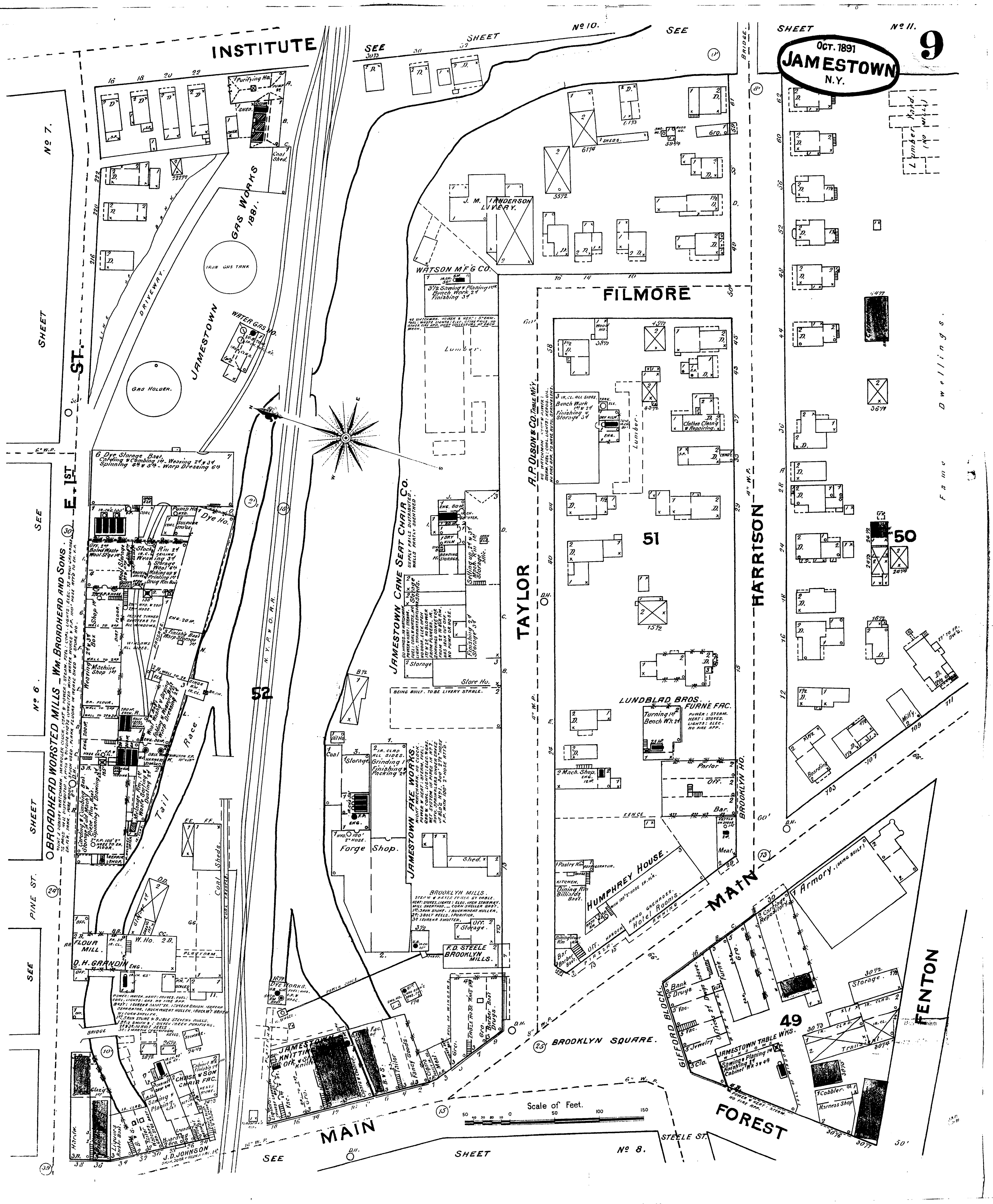
APPENDIX A

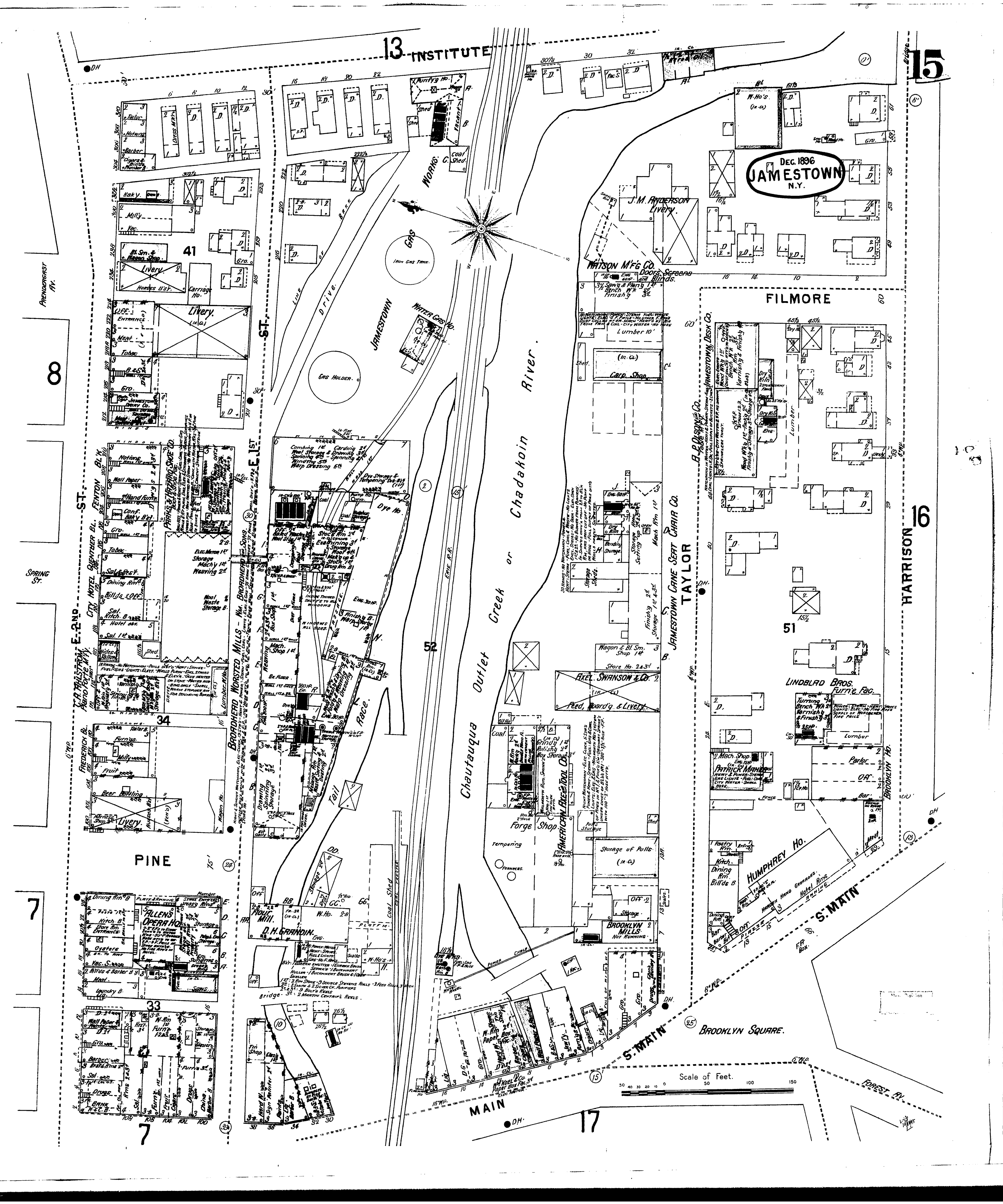
HISTORICAL FIGURES

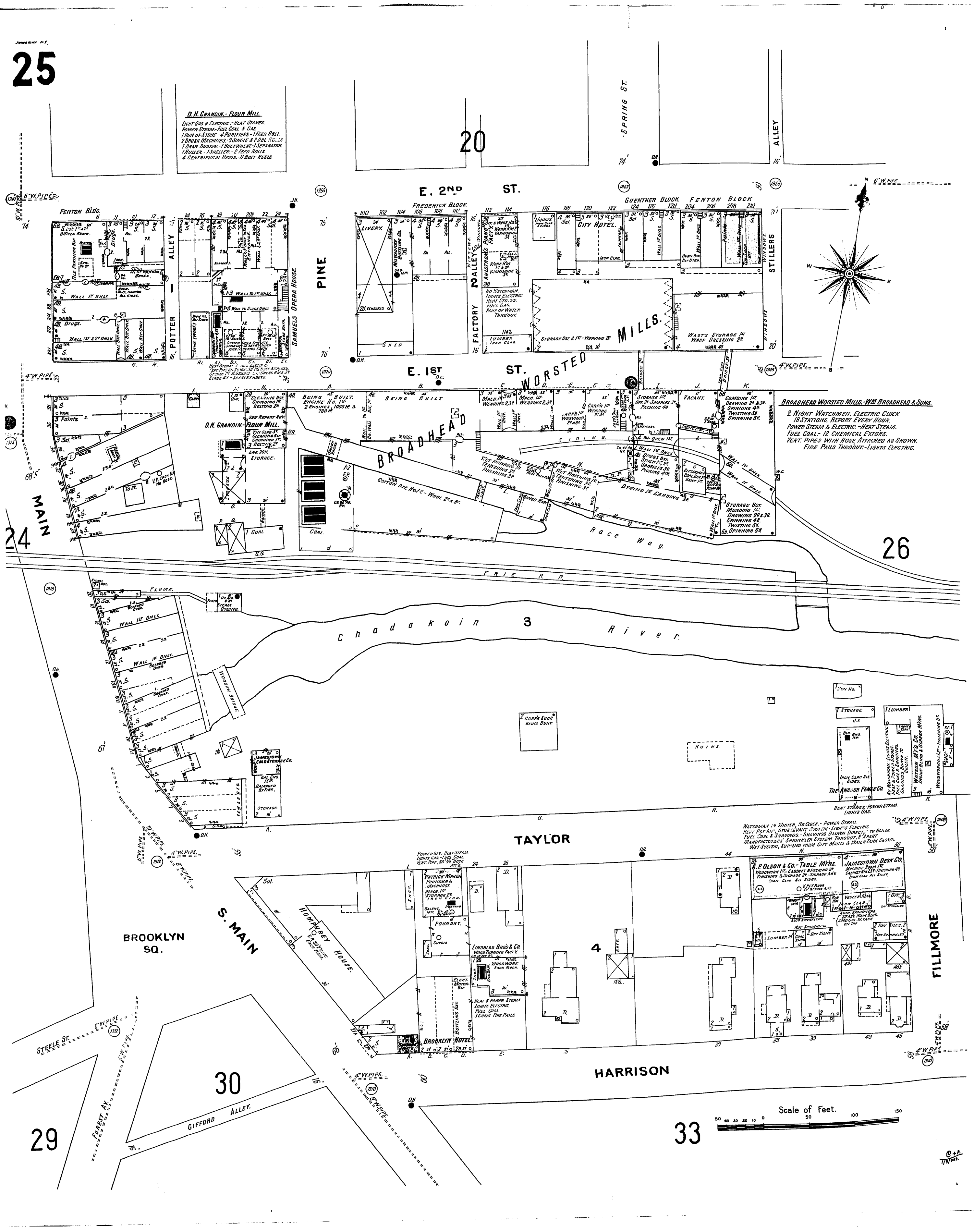

Jamestown MGP
C907029
Former Ames/Hills Plaza
Potters Aly
Factory Aly
Stillers Aly
Prendergast Ave
E 3rd St
Unnamed Street
Chandler St
Pine St
Spring St
Blackbear Aly
E 2nd St
N Main St
Factory Aly
Stillers Aly
E 1st St
Foote Ave
Shearman Pl
Institute St
Yorkshire Aly
S Main St
Harrison St
Victoria Ave
Briggs St
Newstrom Aly


Jamestown MGP Site Border
N
W
E
S
E 3rd St
Pine St
Spring St
Prendergast Ave
Factory Aly
E 2nd St
Factory Aly
Stillers Aly
E 1st St
Driveway
Institute St
Legend
Tax Parcel-Chautauqua
0
195
390 Feet

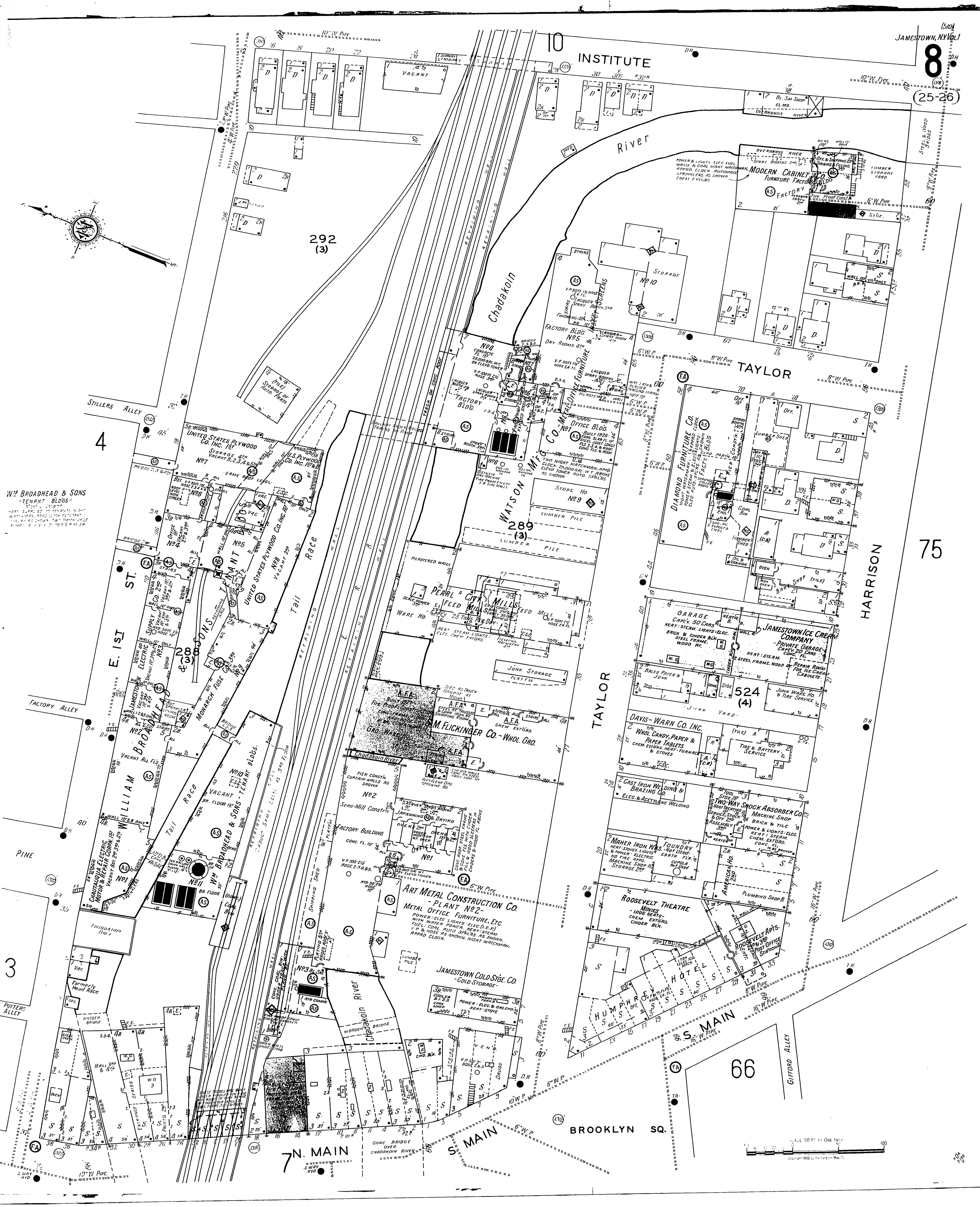

Mch 1886
JAMESTOWN
N.Y.
7
INSTITUTE
SEE SHEET NO.8
SEE SHEET NO.5
E. 1ST ST.
SEE SHEET NO.4
FILMORE
TAYLOR
HARRISON
FENTON PL.
MAIN
HUMPHREY HOUSE
BROOKLYN SQUARE
FOREST AV.
STEELE ST.
SEE SHEET NO.6
Outlet Creek
Tail Race
Iron Gas Tank
Gas Holder
Water Gas Ho. (Not used)
Jamestown Gas Wks.
Driveway
Brick Mill To be built 1886
Broadhead Worsted Mills, Wm. Broadhead & Sons
Dye Ho.
Lumber Piles
Log Yard
Jamestown Cane Seat Chair Co.
Edmonds Livery
Jamestown Axe Wks.
Brooklyn Mills F.O. Steele
Jamestown Knitting Mills
Flour Mill D.H. Grandin
Ware Ho.
Coal Sheds
Chase & Son Chair Fac.
Hotel Rooms
Wire Pillow Sham & Sash Balance Mf'y.
Lumber Yard
C.F. Dorn Carriage Mf'y.
Ford Blocks
Bridge
N.Y. P. & O. R.R.
52
51
50
49
Scale of Feet.
50 100 150


9
OCT. 1891
JAMESTOWN
N.Y.
SEE SHEET No 10.
SEE SHEET No 11.
SEE SHEET No 7.
SEE SHEET No 6.
SEE SHEET No 8.
INSTITUTE
E. 1ST ST.
FILMORE
TAYLOR
HARRISON
MAIN
FOREST
FENTON
PINE ST.
STEELE ST.
BROOKLYN SQUARE.
JAMESTOWN GAS WORKS 1881.
IRON GAS TANK
GAS HOLDER.
WATER GAS HO.
Purifying Ho.
DRIVEWAY
BROADHEAD WORSTED MILLS _ WM. BROADHEAD AND SONS.
Dye Ho.
Tail Race
Coal Sheds
FLOUR MILL.
D. H. GRANDIN
CHASE & SON CHAIR FAC.
J. D. JOHNSON
JAMESTOWN KNITTING WORKS
N.Y.P. & O. R.R.
JAMESTOWN CANE SEAT CHAIR CO.
WATSON MFG. CO.
J. M. ANDERSON LIVERY.
JAMESTOWN AXE WORKS.
Forge Shop.
BROOKLYN MILLS.
F. D. STEELE BROOKLYN MILLS.
A. P. OLSON & CO. TABLE MF'Y.
LUNDBLAD BROS. FURN. FAC.
HUMPHREY HOUSE
Hotel Rooms
BROOKLYN HO.
Armory
GIFFORD BLOCK
JAMESTOWN TABLE WKS.
Harness Shop
Lumber Yard
Frame Dwellings
52
51
50
49
Scale of Feet.
50 0 50 100 150


15
DEC. 1896
JAMESTOWN
N.Y.
13
INSTITUTE
FILMORE
TAYLOR
HARRISON
PINE
E. 2ND ST.
E. 1ST ST.
MAIN
S. MAIN
BROOKLYN SQUARE
FOREST AV.
PRENDERGAST AV.
SPRING ST.
Chautauqua Outlet Creek or Chadakoin River
ERIE R.R.
JAMESTOWN GAS WORKS CO.
Iron Gas Tank
Gas Holder
Water Gas Ho.
Line of Drive
Race
Tail Race
J. M. ANDERSON Livery
WATSON M'F'G CO. Doors, Screens and Blinds
Lumber
Carp. Shop
JAMESTOWN DESK CO.
A. P. OLSON & CO.
JAMESTOWN CANE SEAT CHAIR CO.
AXEL SWANSON & CO. Feed, Board'g & Livery
AMERICAN AXE & TOOL CO.
Forge Shop
Tempering
Storage of Polls
BROOKLYN MILLS Not Running
LINDBLAD BROS. Furn'e Fac.
PATRICK MANLEY Mach. Shop
HUMPHREY HO.
Parlor
Off.
Bar
BROOKLYN HO.
BROADHEAD WORSTED MILLS - WM. BROADHEAD & SONS
Dye Ho.
Wool Waste Storage
D. H. GRANDIN
Flour Mill
W. Ho.
Coal Shed
ALLEN'S OPERA HO.
Livery
Beer Bottling
CITY HOTEL
FENTON BL'K
GUENTHER BL.
C. A. HALLSTROM Piano Forte M'f'y
FREDERICK BL.
JAMESTOWN DAIRY CO.
Bridge
41
34
33
51
52
8
7
16
17
Scale of Feet.
50 40 30 20 10 0 50 100 150



Jamestown N.Y.
25
D.H. GRANDIN. - FLOUR MILL.
LIGHT GAS & ELECTRIC - HEAT STOVES.
POWER STEAM - FUEL COAL & GAS.
1 RUN OF STONE - 4 PURIFIERS - 1 FEED ROLL
2 BRUSH MACHINES - 9 SINGLE & 2 DBL ROLLS
1 BRAN DUSTER - 1 BUCKWHEAT - 1 SEPARATOR.
1 HULLER - 1 SHELLER - 2 FEED ROLLS.
4 CENTRIFUGAL REELS - 11 BOLT REELS.
20
SPRING ST.
ALLEY
E. 2ND ST.
FENTON BLDG.
FREDERICK BLOCK.
GUENTHER BLOCK.
FENTON BLOCK
LIVERY.
CITY HOTEL.
SAMUELS OPERA HOUSE
PINE
POTTER
ALLEY
FACTORY
ALLEY
STILLERS
E. 1ST ST.
BROADHEAD WORSTED MILLS.
BROADHEAD WORSTED MILLS: - WM BROADHEAD & SONS.
2 NIGHT WATCHMEN. ELECTRIC CLOCK
18 STATIONS. REPORT EVERY HOUR.
POWER STEAM & ELECTRIC. - HEAT STEAM.
FUEL COAL. - 12 CHEMICAL EXTGRS.
VERT. PIPES WITH HOSE ATTACHED AS SHOWN.
FIRE PAILS THROUT. - LIGHTS ELECTRIC.
D.H. GRANDIN - FLOUR MILL
Race Way.
MAIN
24
26
ERIE R.R.
Chadakoin 3 River.
FLUME.
WOODEN BRIDGE
JAMESTOWN COLD STORAGE CO.
RUINS.
THE ANCHOR FENCE CO.
WATSON MFG. CO.
TAYLOR
S. MAIN
BROOKLYN SQ.
HUMPHREY HOUSE.
PATRICK MAHER FOUNDRY & MACHINIST.
LINDBLAD BROS & CO. WOOD TURNING FACT'Y.
BROOKLYN HOTEL
A.P. OLSON & CO. - TABLE MFRS.
JAMESTOWN DESK CO.
4
FILLMORE
HARRISON
STEELE ST.
FOREST AV.
GIFFORD ALLEY.
30
29
33
Scale of Feet.


JAMESTOWN, N.Y. VOL. 1
8
(25-26)
INSTITUTE
TAYLOR
HARRISON
E. 1ST ST.
N. MAIN
S. MAIN
BROOKLYN SQ.
PINE
STILLERS ALLEY
FACTORY ALLEY
POTTERS ALLEY
GIFFORD ALLEY
Chadakoin River
Tail Race
292 (3)
289 (3)
288 (3)
524 (4)
4
3
7
10
66
75
MODERN CABINET CO. FURNITURE FACTORY
LUMBER STORAGE YARD
WATSON MFG. CO. METAL OFFICE FURNITURE & INSECT SCREENS
DIAMOND FURNITURE CO.
UNITED STATES PLYWOOD CO. INC. 1ST
U.S. PLYWOOD CO. INC. 1ST
WM BROADHEAD & SONS -TENANT BLDGS.-
MONARCH FUSE CO.
JAMESTOWN ELECTRIC SUPPLY CO.
CHAUTAUQUA ELECTRIC MOTOR & REPAIR CORP'N
PEARL CITY MILLS FEED MILL
JUNK STORAGE
A. M. FLICKINGER CO. - WHOL. GRO.
ART METAL CONSTRUCTION CO. -PLANT NO 2- METAL OFFICE FURNITURE, ETC.
JAMESTOWN COLD STGE. CO. -COLD STORAGE-
GARAGE
JAMESTOWN ICE CREAM COMPANY
DAVIS-WARN CO. INC. WHOL. CANDY, PAPER & PAPER TABLETS
TIRE & BATTERY SERVICE
JUNK WARE HO. & TIRE SERVICE
CAST IRON WELDING & BRAZING CO.
TWO-WAY SHOCK ABSORBER CO. MACHINE SHOP
MAHER IRON WKS.
FOUNDRY
ROOSEVELT THEATRE MOVIES
ROOSEVELT APTS.
HUMPHREY HOTEL
PLUMBING SHOP
STORE HO. NO 9
LUMBER PILE
Formerly Head Race
Foundation Only
CONC BRIDGE OVER CHADAKOIN RIVER
SCALE 50 FT. TO ONE INCH


JAMESTOWN, N.Y. VOL I
8
(25-26)
INSTITUTE
River
Chadakoin
292
(3)
TAYLOR
WATSON MFG. CO.-METAL OFFICE FURNITURE & ...
289
CITY OF JAMESTOWN TENANT BLDGS.
STILLERS ALLEY
4
E. 1ST ST.
288
CITY OF JAMESTOWN TENANT BUILDINGS
Tail Race
FACTORY ALLEY
PINE
3
POTTERS ALLEY
Formerly Head Race
SANITARY WIPING CLOTH CO. LAUNDRY
75
HARRISON
FASHION CLOTHES INC.
524
WHOL. POULTRY
M. FLICKINGER CO.-WHOL. GRO.
ART METAL CONSTRUCTION CO. PLANT NO. 2
METAL OFFICE FURNITURE, ETC.
JAMESTOWN COLD STGE. CO. COLD STORAGE
JAMESTOWN IRON WORKS
ROOSEVELT THEATRE
ROOSEVELT APTS.
S. MAIN
66
GIFFORD ALLEY
BROOKLYN SQ.
7
N. MAIN
CONC. BRIDGE OVER CHADAKOIN RIVER
SCALE 50 FT. TO ONE INCH
10"W. PIPE
10

APPENDIX B

DATA USABILITY SUMMARY REPORTS

DATA USABILITY SUMMARY REPORT

FORMER JAMESTOWN MGP SITE

Prepared For:

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7012

Prepared By:

PARSONS

301 Plainfield Road
Suite 350
Syracuse, NY 13212
Phone: (315) 451-9560
Fax: (315) 451-9570

FEBRUARY 2016

TABLE OF CONTENTS

Page

LIST OF ATTACHMENTS

SECTION 1

DATA USABILITY SUMMARY

Soil and waste samples were collected from the Former Jamestown MGP site in Jamestown, New York from October 27, 2015 through November 2, 2015. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

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

The analytical laboratory for this project was Spectrum Analytical (Spectrum). This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 37 days for the project samples.

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

1.2 SAMPLING AND CHAIN-OF-CUSTODY

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

1.3 LABORATORY ANALYTICAL METHODS

The soil samples that were collected from the site were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and cyanide. The waste samples that were collected from the site were analyzed for VOCs, SVOCs, pesticides, polychlorinated biphenyls (PCBs), metals, the toxicity characteristic leaching procedure (TCLP) parameters (volatiles, semivolatiles, pesticides, herbicides, metals), flashpoint, pH, and reactive cyanide/sulfide. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.5. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method by media in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

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

"J" - estimated at the value given,

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

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

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

"R" - unusable value.

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

1.3.1 Volatile Organic Analysis

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

1.3.2 Semivolatile Organic Analysis

The project samples were analyzed for SVOCs and TCLP SVOCs using the USEPA SW-846 8270D analytical method. The reported results for these samples did not require qualification resulting from data validation. The reported SVOC analytical results were 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

1.3.3 Pesticide, PCB, and Herbicide Organic Analysis

The waste samples were analyzed for pesticides, TCLP pesticides, PCBs, and TCLP herbicides using the USEPA SW-846 8081B/8082A/8151A analytical methods. Certain reported results for these samples were qualified as estimated based upon sample identification. The reported analytical results for these samples were considered 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

1.3.4 Inorganics Analysis

The project samples were analyzed for metals, TCLP metals, and cyanide using the USEPA SW-846 6010C/7470A/9012B analytical methods. Certain reported results for the inorganics samples were qualified as estimated based upon matrix spike recoveries and laboratory control sample recoveries. The reported inorganic analytical results were considered 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

1.3.5 Wet Chemistry Analyses

Waste samples were analyzed for pH using the SM20 4500 analytical method; flashpoint using the USEPA SW-846 1010A analytical method; and reactive cyanide/sulfide using the USEPA SW-846 7.3.3.2/7.3.4.2 analytical method. All laboratory data for these samples were reviewed and evaluated for usability with respect to custody documentation, holding times, laboratory blanks, laboratory control sample accuracy, laboratory duplicate precision, matrix spike/matrix spike duplicate precision and accuracy, instrument calibrations, data completeness,

sample data verification and identification, and quantitation limits. The reported results for these samples did not require qualification resulting from data validation. The reported analytical results for the wet chemistry samples were 100% complete with all data considered usable and valid for the data presented by Spectrum. PARCCS requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 SOIL AND WASTE

Data review has been completed for data packages generated by Spectrum containing soil and waste samples collected from the site. Analytical results from these samples were contained within sample delivery group (SDG) P1561. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A.

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

2.1.1 Volatiles (Including TCLP Volatiles)

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

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

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

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable and within QC limits with the exception of the many MS/MSD precision and accuracy outliers during the spiked

analyses of sample JT-SB-11 (28-30). Validation qualification of this parent sample was not required.

LCS Recoveries

All LCS recoveries associated with project samples were considered acceptable and within QC limits with the exception of the high LCS recoveries for iodomethane (172%R, 126%R, 163%R; QC limit 70-126%R) associated with samples JT-SB-11(24-25.1), JT-SB-11(28-30), JT-SB-07(10-12), JT-SB-08(8-10), and JT-SB-08(28-30). Validation qualification of these samples was not required.

Blank Contamination

The field QC equipment blank EB-110215 associated with the project samples contained bromodichloromethane at a concentration of 1.7 µg/L. Validation qualification of the project samples was not required.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum mean relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of 1,4-dioxane (RRF=0.002, 0.003, 0.006) in the initial calibrations associated with all samples; and bromomethane (23.1%RSD) in the initial calibration associated with EB-110215, JT-WC-L, JT-SB-08(8-10), and JT-SB-08(28-30). Therefore, the results for these compounds were considered estimated with positive results qualified “J” and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within $\pm$20% with the exception of 1,4-dioxane (RRF=0.002, 0.005, 0.006) in the continuing calibrations associated with all samples; 1,1-dichloroethane (-23.6%D), 1,1,1-trichloroethane (-23.5%D), 2,2-dichloropropane (-28.4%D), and trichloroethene (-22%D) in the continuing calibration associated with samples JT-SB-07(10-12), JT-SB-07(24-26), JT-SB-09(12-14), JT-SB-09(28-30), JT-SB-10(28-30), JT-SB-11(28-30), and JT-SB-11(24-25.1); 2,2-dichloropropane (-21.7%D), and 1,2-dichloroethane (-26.9%D) in the continuing calibration associated with JT-SB-12(24-24.3), JT-SB-14(12-14), JT-SB-14(28-30), JT-SB-15(22-24), and JT-SB-15(28-30); iodomethane (40.2%D), 1,1,2,2-tetrachloroethane (-20.4%D), and 1,2,3-trichloropropane (-24.9%D) in the continuing calibration associated with JT-SB-08(8-10) and JT-SB-08(28-30); and bromomethane (23.1%D) and acetone (47.2%D) in the continuing calibration associated with JT-WC-L and EB-110215. Therefore, the sample results for these compounds were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

Usability

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

Summary

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

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

2.1.2 Semivolatiles (Including TCLP Semivolatiles)

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

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

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

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the low 2-fluorobiphenyl recovery (QC limit 45-105%R) in samples JT-SB-09(12-14) (43%R), JT-SB-14(28-30) (43%R), and JT-SB-06(16-18) (41%R); and the low phenol-d5 recovery (40-100%R) in samples JT-SB-06(16-18) (32%R) and JT-SB-14(12-14) (43%R). Validation qualification of these samples was not required.

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable and within QC limits with the exception of the low MS/MSD accuracy results for phenanthrene, anthracene, fluoranthene, pyrene, and chrysene and the high MS/MSD precision results for phenanthrene, fluoranthene, and pyrene during the spiked analyses of sample JT-SB-11 (28-30). Validation qualification of this parent sample was not required.

Usability

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

Summary

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

2.1.3 Pesticides and PCBs (Including TCLP Pesticides and TCLP Herbicides)

The following items were reviewed for compliancy in the pesticide, PCB, and herbicide analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination
- Initial calibrations
- Verification calibrations
- 4,4'-DDT/endrin breakdown
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries and sample result identification as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC acceptance limits with the exception of the low decachlorobiphenyl recoveries (QC limit 40-135%R) in PCB sample JT-WC-L (22%R, 23%R). Validation qualification was not required for these samples.

Sample Result Identification

All positive pesticide and PCB sample results were within retention time windows and verified present using secondary column confirmation. The percent difference (%D) between the pesticide and PCB results on the quantitation and confirmation columns were less than 40% with

the exception of delta-BHC in sample JT-WC-L (146%D). The result for this compound was considered estimated, tentatively identified, and qualified "JN" for the affected sample.

Usability

All pesticide, PCB, and herbicide results for the waste samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The pesticide, PCB, and herbicide waste data presented by Spectrum were 100% complete with all data considered usable and valid. The validated data are tabulated and presented in Attachment A.

2.1.4 Inorganics (Including TCLP Metals)

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

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration blank, laboratory preparation blank, and equipment blank contamination
- Inductively coupled plasma (ICP) interference check sample (ICS)
- Matrix spike (MS) recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample (LCS) recoveries
- ICP serial dilutions
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination, matrix spike recoveries, and LCS recoveries as discussed below.

Blank Contamination

The laboratory preparation blank associated with sample JT-WC-L contained nickel and sodium at concentrations of 1.785 and 2088.253 µg/L; and the laboratory preparation blank associated with TCLP sample JT-WC-S contained chromium below the reporting limit at a concentration of 1.949 µg/L. Validation qualification of these samples was not required.

Matrix Spike Recoveries

All the MS recoveries for designated spiked project samples were within the 75-125%R QC limit with sample concentrations less than four times the spiking concentration with the exception of the MS recovery for cyanide (QC limit 90-110%R) associated with samples EB-110215 (76%R), JT-SB-11(28-30) (112%R), and JT-SB-06(22-24) (84%R). Therefore, cyanide results where the MS recovery fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for the affected samples. Positive cyanide results where MS recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J+" for the affected samples.

LCS Recoveries

All LCS results were considered acceptable with the exception of the high LCS recovery for cyanide (112%R; QC limit 90-110%R) associated with all soil samples. Positive cyanide results were considered estimated, possibly biased high, and qualified "J+" for the affected samples.

Usability

All inorganics soil and waste sample results were considered usable following data validation.

Summary

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

ATTACHMENT A

VALIDATED LABORATORY DATA

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-06 JT-SB-06 (16-18) P1561-21 MITKEM P1561 SO 11/2/2015 11:55 12/28/2015	JT-SB-06 JT-SB-06 (22-24) P1561-22 MITKEM P1561 SO 11/2/2015 12:15 12/28/2015	JT-SB-07 JT-SB-07 (10-12) P1561-01 MITKEM P1561 SO 10/27/2015 8:50 12/28/2015	JT-SB-07 JT-SB-07 (24-26) P1561-02 MITKEM P1561 SO 10/27/2015 10:00 12/28/2015
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	10 U	7.8 U	9.7 UJ	8 UJ
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	10 U	7.8 U	9.7 UJ	8 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	10 U	7.8 U	9.7 UJ	8 UJ
75-35-4	1,1-DICHLOROETHENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	10 U	7.8 U	9.7 UJ	8 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/Kg	10 U	7.8 U	9.7 U	8 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	200 UJ	160 UJ	190 UJ	160 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	10 U	7.8 U	9.7 UJ	8 UJ
95-49-8	2-CHLOROTOLUENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
591-78-6	2-HEXANONE	ug/Kg	10 U	7.8 U	9.7 U	8 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
67-64-1	ACETONE	ug/Kg	10 U	7.8 U	9.7 U	8 U
71-43-2	BENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
108-86-1	BROMOBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
75-25-2	BROMOFORM	ug/Kg	10 U	7.8 U	9.7 U	8 U
74-83-9	BROMOMETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
75-15-0	CARBON DISULFIDE	ug/Kg	10 U	7.8 U	9.7 U	8 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	10 U	7.8 U	9.7 U	8 U
108-90-7	CHLOROBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
75-00-3	CHLOROETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
67-66-3	CHLOROFORM	ug/Kg	10 U	7.8 U	9.7 U	8 U
74-87-3	CHLOROMETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	8 J	7.8 U	2 J	8 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	ug/Kg	10 U	7.8 U	9.7 U	8 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
74-95-3	DIBROMOMETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
100-41-4	ETHYLBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
74-88-4	IODOMETHANE (METHYL IODIDE)	ug/Kg	10 U	7.8 U	9.7 UJ	8 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/Kg	10 U	7.8 U	9.7 U	8 U
179601-23-1	M,P-XYLENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/Kg	10 U	7.8 U	9.7 U	8 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	10 U	7.8 U	9.7 U	8 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	10 U	7.8 U	9.7 U	8 U
104-51-8	N-BUTYLBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
103-65-1	N-PROPYLBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/Kg	10 U	7.8 U	9.7 U	8 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
100-42-5	STYRENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
98-06-6	T-BUTYLBENZENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	20 U	16 U	19 U	16 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	10 U	7.8 U	9.7 U	8 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/Kg	180	7.8 U	3900	8 U
108-88-3	TOLUENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	11	7.8 U	9.7 U	8 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	10 U	7.8 U	9.7 U	8 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	42	7.8 U	7.8 J	8 UJ
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	10 U	7.8 U	9.7 U	8 U
108-05-4	VINYL ACETATE	ug/Kg	10 U	7.8 U	9.7 U	8 U
75-01-4	VINYL CHLORIDE	ug/Kg	10 U	7.8 U	9.7 U	8 U

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-06 JT-SB-06 (16-18) P1561-21 MITKEM P1561 SO 11/2/2015 11:55 12/28/2015	JT-SB-06 JT-SB-06 (22-24) P1561-22 MITKEM P1561 SO 11/2/2015 12:15 12/28/2015	JT-SB-07 JT-SB-07 (10-12) P1561-01 MITKEM P1561 SO 10/27/2015 8:50 12/28/2015	JT-SB-07 JT-SB-07 (24-26) P1561-02 MITKEM P1561 SO 10/27/2015 10:00 12/28/2015
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	880 U	840 U	830 U	850 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	430 U	410 U	410 U	420 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	430 U	410 U	410 U	420 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	430 U	410 U	410 U	420 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	880 U	840 U	830 U	850 U
121-14-2	2,4-DINITROTOLUENE	ug/Kg	430 U	410 U	410 U	420 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	430 U	410 U	410 U	420 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	430 U	410 U	410 U	420 U
95-57-8	2-CHLOROPHENOL	ug/Kg	430 U	410 U	410 U	420 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	430 U	410 U	410 U	420 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	430 U	410 U	410 U	420 U
88-74-4	2-NITROANILINE	ug/Kg	880 U	840 U	830 U	850 U
88-75-5	2-NITROPHENOL	ug/Kg	430 U	410 U	410 U	420 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	430 U	410 U	410 U	420 U
99-09-2	3-NITROANILINE	ug/Kg	880 U	840 U	830 U	850 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	880 U	840 U	830 U	850 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	430 U	410 U	410 U	420 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	430 U	410 U	410 U	420 U
106-47-8	4-CHLOROANILINE	ug/Kg	430 U	410 U	410 U	420 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	430 U	410 U	410 U	420 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/Kg	430 U	410 U	410 U	420 U
100-01-6	4-NITROANILINE	ug/Kg	880 U	840 U	830 U	850 U
100-02-7	4-NITROPHENOL	ug/Kg	880 U	840 U	830 U	850 U
83-32-9	ACENAPHTHENE	ug/Kg	430 U	410 U	410 U	420 U
208-96-8	ACENAPHTHYLENE	ug/Kg	430 U	410 U	410 U	420 U
120-12-7	ANTHRACENE	ug/Kg	430 U	410 U	410 U	420 U
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	430 U	410 U	200 J	420 U
50-32-8	BENZO(A)PYRENE	ug/Kg	430 U	410 U	260 J	420 U
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	430 U	410 U	230 J	420 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	430 U	410 U	300 J	420 U
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	430 U	410 U	110 J	420 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	430 U	410 U	410 U	420 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	430 U	410 U	410 U	420 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	430 U	410 U	410 U	420 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	430 U	410 U	410 U	420 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	430 U	410 U	410 U	420 U
86-74-8	CARBAZOLE	ug/Kg	430 U	410 U	410 U	420 U
218-01-9	CHRYSENE	ug/Kg	430 U	410 U	180 J	420 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	430 U	410 U	410 U	420 U
132-64-9	DIBENZOFURAN	ug/Kg	430 U	410 U	410 U	420 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	430 U	410 U	410 U	420 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	430 U	410 U	410 U	420 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	430 U	410 U	410 U	420 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	430 U	410 U	410 U	420 U
206-44-0	FLUORANTHENE	ug/Kg	430 U	410 U	420	420 U
86-73-7	FLUORENE	ug/Kg	430 U	410 U	410 U	420 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	430 U	410 U	410 U	420 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	430 U	410 U	410 U	420 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	430 U	410 U	410 U	420 U
67-72-1	HEXACHLOROETHANE	ug/Kg	430 U	410 U	410 U	420 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	430 U	410 U	200 J	420 U
78-59-1	ISOPHORONE	ug/Kg	430 U	410 U	410 U	420 U
91-20-3	NAPHTHALENE	ug/Kg	430 U	410 U	410 U	420 U
98-95-3	NITROBENZENE	ug/Kg	430 U	410 U	410 U	420 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	430 U	410 U	410 U	420 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	430 U	410 U	410 U	420 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	880 U	840 U	830 U	850 U
85-01-8	PHENANTHRENE	ug/Kg	430 U	410 U	410 U	420 U
108-95-2	PHENOL	ug/Kg	430 U	410 U	410 U	420 U
129-00-0	PYRENE	ug/Kg	430 U	410 U	970	420 U
	OTHER					
57-12-5	CYANIDE	mg/Kg	0.533 U	0.548 UJ	0.524 U	0.542 U
MOIST	MOISTURE, PERCENT	%	24	20	19	22

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-06 JT-SB-06 (16-18) P1561-21 MITKEM P1561 SO 11/2/2015 11:55 12/28/2015	JT-SB-06 JT-SB-06 (22-24) P1561-22 MITKEM P1561 SO 11/2/2015 12:15 12/28/2015	JT-SB-07 JT-SB-07 (10-12) P1561-01 MITKEM P1561 SO 10/27/2015 8:50 12/28/2015	JT-SB-07 JT-SB-07 (24-26) P1561-02 MITKEM P1561 SO 10/27/2015 10:00 12/28/2015
CAS NO.	COMPOUND	UNITS:				
	VOLATILE TICs					
767-59-9	1H-Indene, 1-methyl-	ug/Kg				
2177-47-1	2-Methylindene	ug/Kg				
65051-83-4	Benzene, (1-methyl-2-cyclopropen-1-yl)-	ug/Kg				
527-53-7	Benzene, 1,2,3,5-tetramethyl-	ug/Kg				
526-73-8	Benzene, 1,2,3-trimethyl-	ug/Kg				
95-93-2	Benzene, 1,2,4,5-tetramethyl-	ug/Kg				
611-14-3	Benzene, 1-ethyl-2-methyl-	ug/Kg				
934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	ug/Kg				
620-14-4	Benzene, 1-ethyl-3-methyl-	ug/Kg				
6783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	ug/Kg				
15677-15-3	Cycloprop[a]indene, 1,1a,6,6a-tetrahydro	ug/Kg				
124-18-5	Decane	ug/Kg				
496-11-7	Indane	ug/Kg				
95-13-6	Indene	ug/Kg				
108-87-2	METHYLCYCLOHEXANE	ug/Kg				
29949-27-7	n-Amylcyclohexane	ug/Kg				
90-12-0	Naphthalene, 1-methyl-	ug/Kg				
581-42-0	Naphthalene, 2,6-dimethyl-	ug/Kg				
111-84-2	Nonane	ug/Kg				
17302-28-2	Nonane, 2,6-dimethyl-	ug/Kg				
111-65-9	Octane	ug/Kg				
15869-94-0	Octane, 3,6-dimethyl-	ug/Kg				
1120-21-4	Undecane	ug/Kg				
17301-23-4	Undecane, 2,6-dimethyl-	ug/Kg				
UNKVOA1	Unknown Volatile Organic With Highest Conc.	ug/Kg				
UNKVOA2	Unknown Volatile Organic With 2nd Highest Conc.	ug/Kg				
UNKVOA3	Unknown Volatile Organic With 3rd Highest Conc.	ug/Kg				
UNKVOA4	Unknown Volatile Organic With 4th Highest Conc.	ug/Kg				
UNKVOA5	Unknown Volatile Organic With 5th Highest Conc.	ug/Kg				
	SEMIVOLATILE TICs					
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg		830 JN		
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg		430 JN		
55312-69-1	1,1'-Biphenyl, 2,2',3,4,5-Pentachloro-	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (14.72282)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (15.46295)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (17.18450)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (17.57248)	ug/Kg				
95008-11-0	10-Heneicosene (c,t)	ug/Kg				
112-84-5	13-Docosenamide, (Z)-	ug/Kg				
86711-81-1	2- Chloropropionic acid, hexadecyl ester	ug/Kg				
88104-31-8	2- Chloropropionic acid, octadecyl ester	ug/Kg				
111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10	ug/Kg				
189-64-0	3,4:8,9-Dibenzopyrene	ug/Kg				
189-55-9	3,4:9,10-Dibenzopyrene	ug/Kg				
107770-99-0	3,5-Dimethyldodecane	ug/Kg				
74685-30-6	5-Eicosene, (E)-	ug/Kg				
1556-99-6	9H-Fluorene, 4-methyl-	ug/Kg				
2523-37-7	9H-Fluorene, 9-methyl-	ug/Kg				
27519-02-4	9-Tricosene, (Z)-	ug/Kg				
613-12-7	Anthracene, 2-methyl-	ug/Kg				
2541-69-7	Benz[a]anthracene, 7-methyl- (14.79322)	ug/Kg				
2541-69-7	Benz[a]anthracene, 7-methyl- (14.83435)	ug/Kg				
239-35-0	Benzo[b]naphtho[2,1-d]thiophene	ug/Kg				
5385-75-1	Dibenz(a,e)aceanthrylene	ug/Kg				
191-26-4	Dibenzo[def,mno]chrysene	ug/Kg				
13475-76-8	Docosane, 11-butyl-	ug/Kg				
2136-70-1	Ethanol, 2-(tetradecyloxy)-	ug/Kg				
33543-31-6	Fluoranthene, 2-methyl-	ug/Kg				
14739-72-1	Heneicosane, 11-pentyl-	ug/Kg				390 JN
55124-79-3	Heptadecane, 9-hexyl-	ug/Kg				
90-12-0	Naphthalene, 1-methyl-	ug/Kg				
581-40-8	Naphthalene, 2,3-dimethyl- (8.82355)	ug/Kg				
581-40-8	Naphthalene, 2,3-dimethyl- (8.96457)	ug/Kg				
612-94-2	Naphthalene, 2-phenyl-	ug/Kg				
832-69-9	Phenanthrene, 1-methyl-	ug/Kg				
1576-69-8	Phenanthrene, 2,7-dimethyl-	ug/Kg				
2531-84-2	Phenanthrene, 2-methyl-	ug/Kg				
848-62-4	Pregnan-20-one, (5.alpha.)-	ug/Kg				

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CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
2381-21-7	Pyrene, 1-methyl-	ug/Kg				
2381-21-7	Pyrene, 1-methyl- (13.37735)	ug/Kg				
2381-21-7	Pyrene, 1-methyl- (13.52423)	ug/Kg				
7225-66-3	Tridecane, 7-hexyl-	ug/Kg				
1705-84-6	Triphenylene, 2-methyl-	ug/Kg				
239-01-0	11H-Benzo[a]carbazole	ug/Kg				
238-84-6	11H-Benzo[a]fluorene	ug/Kg				
243-17-4	11H-Benzo[b]fluorene	ug/Kg				
1599-67-3	1-Docosene	ug/Kg				
77899-03-7	1-Heneicosyl formate	ug/Kg				
1454-85-9	1-Heptadecanol	ug/Kg				
36653-82-4	1-Hexadecanol	ug/Kg		570 JN		
18435-45-5	1-Nonadecene	ug/Kg	620 JN			
3133-01-5	1-Tricosanol	ug/Kg				
18835-32-0	1-Tricosene	ug/Kg				
35465-71-5	2-Phenylnaphthalene	ug/Kg				
203-64-5	4H-Cyclopenta[def]phenanthrene	ug/Kg				
82-05-3	7H-Benz[de]anthracen-7-one	ug/Kg				
215-58-7	Benzo[b]triphenylene	ug/Kg				
192-97-2	Benzo[e]pyrene	ug/Kg				
205-82-3	Benzo[j]fluoranthene	ug/Kg				
119-61-9	Benzophenone	ug/Kg				
128-37-0	Butylated Hydroxytoluene	ug/Kg				
191-07-1	Coronene	ug/Kg				
191-07-1	Coronene (15.39852)	ug/Kg				
191-07-1	Coronene (15.62178)	ug/Kg				
191-07-1	Coronene (16.80278)	ug/Kg				
112-95-8	Eicosane	ug/Kg				600 JN
629-94-7	Heneicosane	ug/Kg			480 JN	
593-49-7	Heptacosane	ug/Kg			440 JN	
629-78-7	Heptadecane	ug/Kg				
57-10-3	HEXADECANOIC ACID	ug/Kg	390 JN		1000 JN	1200 JN
630-02-4	Octacosane	ug/Kg			520 JN	550 JN
557-61-9	Octacosanol	ug/Kg				
593-45-3	Octadecane	ug/Kg			490 JN	
57-11-4	Octadecanoic acid	ug/Kg			430 JN	570 JN
198-55-0	Perylene	ug/Kg				
198-55-0	Perylene (16.11522)	ug/Kg				
198-55-0	Perylene (16.33848)	ug/Kg				
197-61-5	Rubicene-	ug/Kg				
646-31-1	Tetracosane	ug/Kg			360 JN	500 JN
646-31-1	Tetracosane (15.09893)	ug/Kg				
646-31-1	Tetracosane (15.56312)	ug/Kg				
14167-59-0	Tetratriacontane	ug/Kg				
7098-21-7	Tritetracontane	ug/Kg			490 JN	660 JN
UNKSV1	Unknown SemiVolatile Organic With Highest Conc.	ug/Kg			890 J	860 J
UNKSV2	Unknown SemiVolatile Organic With 2nd Highest Conc.	ug/Kg			470 J	800 J
UNKSV3	Unknown SemiVolatile Organic With 3rd Highest Conc.	ug/Kg				
UNKSV4	Unknown SemiVolatile Organic With 4th Highest Conc.	ug/Kg				
UNKSV5	Unknown SemiVolatile Organic With 5th Highest Conc.	ug/Kg				
UNKSV6	Unknown SemiVolatile Organic With 6th Highest Conc.	ug/Kg				
UNKSV7	Unknown SemiVolatile Organic With 7th Highest Conc.	ug/Kg				
UNKSV8	Unknown SemiVolatile Organic With 8th Highest Conc.	ug/Kg				
UNKSV9	Unknown SemiVolatile Organic With 9th Highest Conc.	ug/Kg				
UNKSV10	Unknown SemiVolatile Organic With 10th Highest Conc.	ug/Kg				
UNKSV11	Unknown SemiVolatile Organic With 11th Highest Conc.	ug/Kg				
UNKSV12	Unknown SemiVolatile Organic With 12th Highest Conc.	ug/Kg				
UNKSV13	Unknown SemiVolatile Organic With 13th Highest Conc.	ug/Kg				
UNKSV14	Unknown SemiVolatile Organic With 14th Highest Conc.	ug/Kg				
UNKSV15	Unknown SemiVolatile Organic With 15th Highest Conc.	ug/Kg				

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CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	720 U	500 U	12 UJ	9.5 UJ
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	720 UJ	500 UJ	12 U	9.5 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	720 U	500 U	12 UJ	9.5 UJ
75-35-4	1,1-DICHLOROETHENE	ug/Kg	720 U	500 U	12 U	9.5 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	720 U	500 U	12 U	9.5 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	720 UJ	500 UJ	12 U	9.5 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	700	500 U	12 U	2.3 J
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	720 U	500 U	12 U	9.5 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	720 U	500 U	12 U	9.5 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/Kg	260 J	500 U	12 U	9.5 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	720 U	500 U	12 U	9.5 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	14000 UJ	10000 UJ	240 UJ	190 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	720 U	500 U	12 UJ	9.5 UJ
95-49-8	2-CHLOROTOLUENE	ug/Kg	720 U	500 U	12 U	9.5 U
591-78-6	2-HEXANONE	ug/Kg	720 U	500 U	12 U	9.5 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	720 U	500 U	12 U	9.5 U
67-64-1	ACETONE	ug/Kg	720 U	500 U	7.5 J	52
71-43-2	BENZENE	ug/Kg	720 U	500 U	12 J	9.5 U
108-86-1	BROMOBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
75-25-2	BROMOFORM	ug/Kg	720 U	500 U	12 U	9.5 U
74-83-9	BROMOMETHANE	ug/Kg	720 UJ	500 UJ	12 U	9.5 U
75-15-0	CARBON DISULFIDE	ug/Kg	200 J	500 U	12 U	4 J
56-23-5	CARBON TETRACHLORIDE	ug/Kg	720 U	500 U	12 U	9.5 U
108-90-7	CHLOROBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
75-00-3	CHLOROETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
67-66-3	CHLOROFORM	ug/Kg	720 U	500 U	12 U	9.5 U
74-87-3	CHLOROMETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	720 U	500 U	12 U	9.5 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	720 U	500 U	12 U	9.5 U
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	ug/Kg	720 U	500 U	12 U	9.5 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
74-95-3	DIBROMOMETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	1700	500 U	12 U	9.5 U
100-41-4	ETHYLBENZENE	ug/Kg	2200	500 U	12 U	9.5 U
74-88-4	IODOMETHANE (METHYL IODIDE)	ug/Kg	720 UJ	500 UJ	12 U	9.5 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/Kg	180 J	500 U	12 U	9.5 U
179601-23-1	M,P-XYLENE	ug/Kg	860	500 U	12 U	9.5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/Kg	720 U	500 U	12 U	19
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	720 U	500 U	12 U	9.5 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	720 U	500 U	12 U	9.5 U
104-51-8	N-BUTYLBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
103-65-1	N-PROPYLBENZENE	ug/Kg	160 J	500 U	12 U	9.5 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/Kg	790	500 U	12 U	9.5 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
100-42-5	STYRENE	ug/Kg	720 U	500 U	12 U	9.5 U
98-06-6	T-BUTYLBENZENE	ug/Kg	720 U	500 U	12 U	9.5 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	1400 U	1000 U	24 U	19 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	720 U	500 U	12 U	9.5 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/Kg	720 U	500 U	160	230
108-88-3	TOLUENE	ug/Kg	210 J	500 U	12 U	9.5 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	720 U	500 U	12 U	9.5 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	720 U	500 U	12 U	9.5 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	720 U	500 U	5.9 J	18 J
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	720 U	500 U	12 U	9.5 U
108-05-4	VINYL ACETATE	ug/Kg	720 U	500 U	12 U	9.5 U
75-01-4	VINYL CHLORIDE	ug/Kg	720 U	500 U	12 U	9.5 U

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CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	760 U	810 U	850 U	820 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	370 U	400 U	420 U	400 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	370 U	400 U	420 U	400 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	370 U	400 U	420 U	400 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	760 U	810 U	850 U	820 U
121-14-2	2,4-DINITROTOLUENE	ug/Kg	370 U	400 U	420 U	400 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	370 U	400 U	420 U	400 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	370 U	400 U	420 U	400 U
95-57-8	2-CHLOROPHENOL	ug/Kg	370 U	400 U	420 U	400 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	45000	280 J	420 U	400 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	370 U	400 U	420 U	400 U
88-74-4	2-NITROANILINE	ug/Kg	760 U	810 U	850 U	820 U
88-75-5	2-NITROPHENOL	ug/Kg	370 U	400 U	420 U	400 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	370 U	400 U	420 U	400 U
99-09-2	3-NITROANILINE	ug/Kg	760 U	810 U	850 U	820 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	760 U	810 U	850 U	820 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	370 U	400 U	420 U	400 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	370 U	400 U	420 U	400 U
106-47-8	4-CHLOROANILINE	ug/Kg	370 U	400 U	420 U	400 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	370 U	400 U	420 U	400 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/Kg	370 U	400 U	420 U	400 U
100-01-6	4-NITROANILINE	ug/Kg	760 U	810 U	850 U	820 U
100-02-7	4-NITROPHENOL	ug/Kg	760 U	810 U	850 U	820 U
83-32-9	ACENAPHTHENE	ug/Kg	110000	900	420 U	190 J
208-96-8	ACENAPHTHYLENE	ug/Kg	17000 J	250 J	420 U	400 U
120-12-7	ANTHRACENE	ug/Kg	370 U	480	420 U	140 J
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	38000	420	420 U	93 J
50-32-8	BENZO(A)PYRENE	ug/Kg	46000	610	420 U	120 J
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	30000 J	390 J	420 U	400 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	47000	630	420 U	130 J
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	12000 J	140 J	420 U	400 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	370 U	400 U	420 U	400 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	370 U	400 U	420 U	400 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	370 U	400 U	420 U	400 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	370 U	400 U	420 U	400 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	370 U	400 U	420 U	400 U
86-74-8	CARBAZOLE	ug/Kg	370 U	400 U	420 U	400 U
218-01-9	CHRYSENE	ug/Kg	34000	420	420 U	85 J
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	370 U	400 U	420 U	400 U
132-64-9	DIBENZOFURAN	ug/Kg	2500	400 U	420 U	400 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	370 U	400 U	420 U	400 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	370 U	400 U	420 U	400 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	370 U	400 U	420 U	400 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	370 U	400 U	420 U	400 U
206-44-0	FLUORANTHENE	ug/Kg	130000	1500	420 U	320 J
86-73-7	FLUORENE	ug/Kg	43000	410	420 U	400 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	370 U	400 U	420 U	400 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	370 U	400 U	420 U	400 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	370 U	400 U	420 U	400 U
67-72-1	HEXACHLOROETHANE	ug/Kg	370 U	400 U	420 U	400 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	29000 J	390 J	420 U	400 U
78-59-1	ISOPHORONE	ug/Kg	370 U	400 U	420 U	400 U
91-20-3	NAPHTHALENE	ug/Kg	130000	550	420 U	120 J
98-95-3	NITROBENZENE	ug/Kg	370 U	400 U	420 U	400 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	370 U	400 U	420 U	400 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	370 U	400 U	420 U	400 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	760 U	810 U	850 U	820 U
85-01-8	PHENANTHRENE	ug/Kg	220000	2200	420 U	560
108-95-2	PHENOL	ug/Kg	370 U	400 U	420 U	400 U
129-00-0	PYRENE	ug/Kg	240000	2400	420 U	660
	OTHER					
57-12-5	CYANIDE	mg/Kg	1.45 J+	0.521 U	0.647 U	0.608 U
MOIST	MOISTURE, PERCENT	%	12	18	21	20

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CAS NO.	COMPOUND	UNITS:				
	VOLATILE TICs					
767-59-9	1H-Indene, 1-methyl-	ug/Kg				
2177-47-1	2-Methylindene	ug/Kg				
65051-83-4	Benzene, (1-methyl-2-cyclopropen-1-yl)-	ug/Kg				
527-53-7	Benzene, 1,2,3,5-tetramethyl-	ug/Kg				
526-73-8	Benzene, 1,2,3-trimethyl-	ug/Kg				
95-93-2	Benzene, 1,2,4,5-tetramethyl-	ug/Kg				
611-14-3	Benzene, 1-ethyl-2-methyl-	ug/Kg				
934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	ug/Kg	9100 JN			
620-14-4	Benzene, 1-ethyl-3-methyl-	ug/Kg				
6783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	ug/Kg	7200 JN			
15677-15-3	Cycloprop[a]indene, 1,1a,6,6a-tetrahydro	ug/Kg				
124-18-5	Decane	ug/Kg				
496-11-7	Indane	ug/Kg				
95-13-6	Indene	ug/Kg				
108-87-2	METHYLCYCLOHEXANE	ug/Kg				
29949-27-7	n-Amylcyclohexane	ug/Kg	8300 JN			
90-12-0	Naphthalene, 1-methyl-	ug/Kg				
581-42-0	Naphthalene, 2,6-dimethyl-	ug/Kg		860 JN		
111-84-2	Nonane	ug/Kg				
17302-28-2	Nonane, 2,6-dimethyl-	ug/Kg	6200 JN			
111-65-9	Octane	ug/Kg				
15869-94-0	Octane, 3,6-dimethyl-	ug/Kg	8100 JN			
1120-21-4	Undecane	ug/Kg				
17301-23-4	Undecane, 2,6-dimethyl-	ug/Kg	11000 JN			
UNKVOA1	Unknown Volatile Organic With Highest Conc.	ug/Kg	11000 J			
UNKVOA2	Unknown Volatile Organic With 2nd Highest Conc.	ug/Kg	11000 J			
UNKVOA3	Unknown Volatile Organic With 3rd Highest Conc.	ug/Kg	9800 J			
UNKVOA4	Unknown Volatile Organic With 4th Highest Conc.	ug/Kg	9200 J			
UNKVOA5	Unknown Volatile Organic With 5th Highest Conc.	ug/Kg	8100 J			
	SEMIVOLATILE TICs					
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg				
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg				
55312-69-1	1,1'-Biphenyl, 2,2',3,4,5-Pentachloro-	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (14.72282)	ug/Kg		3300 JN		
192-65-4	1,2:4,5-Dibenzopyrene (15.46295)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (17.18450)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (17.57248)	ug/Kg		1200 JN		
95008-11-0	10-Heneicosene (c,t)	ug/Kg				
112-84-5	13-Docosenamide, (Z)-	ug/Kg			1100 JN	
86711-81-1	2- Chloropropionic acid, hexadecyl ester	ug/Kg				
88104-31-8	2- Chloropropionic acid, octadecyl ester	ug/Kg				
111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10	ug/Kg				
189-64-0	3,4:8,9-Dibenzopyrene	ug/Kg		1700 JN		
189-55-9	3,4:9,10-Dibenzopyrene	ug/Kg				
107770-99-0	3,5-Dimethyldodecane	ug/Kg				
74685-30-6	5-Eicosene, (E)-	ug/Kg				
1556-99-6	9H-Fluorene, 4-methyl-	ug/Kg	8300 JN			
2523-37-7	9H-Fluorene, 9-methyl-	ug/Kg	8600 JN			
27519-02-4	9-Tricosene, (Z)-	ug/Kg				
613-12-7	Anthracene, 2-methyl-	ug/Kg	34000 JN			
2541-69-7	Benz[a]anthracene, 7-methyl- (14.79322)	ug/Kg				
2541-69-7	Benz[a]anthracene, 7-methyl- (14.83435)	ug/Kg				
239-35-0	Benzo[b]naphtho[2,1-d]thiophene	ug/Kg				
5385-75-1	Dibenz(a,e)aceanthrylene	ug/Kg				
191-26-4	Dibenzo[def,mno]chrysene	ug/Kg				
13475-76-8	Docosane, 11-butyl-	ug/Kg			420 JN	
2136-70-1	Ethanol, 2-(tetradecyloxy)-	ug/Kg				
33543-31-6	Fluoranthene, 2-methyl-	ug/Kg				
14739-72-1	Heneicosane, 11-pentyl-	ug/Kg				
55124-79-3	Heptadecane, 9-hexyl-	ug/Kg				490 JN
90-12-0	Naphthalene, 1-methyl-	ug/Kg				
581-40-8	Naphthalene, 2,3-dimethyl- (8.82355)	ug/Kg	26000 JN			
581-40-8	Naphthalene, 2,3-dimethyl- (8.96457)	ug/Kg	25000 JN			
612-94-2	Naphthalene, 2-phenyl-	ug/Kg				
832-69-9	Phenanthrene, 1-methyl-	ug/Kg	27000 JN			
1576-69-8	Phenanthrene, 2,7-dimethyl-	ug/Kg	1500 JN			
2531-84-2	Phenanthrene, 2-methyl-	ug/Kg	28000 JN			
848-62-4	Pregnan-20-one, (5.alpha.)-	ug/Kg				

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-08 JT-SB-08 (08-10) P1561-05 MITKEM P1561 SO 10/28/2015 8:25 12/28/2015	JT-SB-08 JT-SB-08 (28-30) P1561-06 MITKEM P1561 SO 10/28/2015 9:50 12/28/2015	JT-SB-09 JT-SB-09 (12-14) P1561-03 MITKEM P1561 SO 10/27/2015 16:00 12/28/2015	JT-SB-09 JT-SB-09 (28-30) P1561-04 MITKEM P1561 SO 10/27/2015 17:00 12/28/2015
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
2381-21-7	Pyrene, 1-methyl-	ug/Kg	1200 JN			
2381-21-7	Pyrene, 1-methyl- (13.37735)	ug/Kg				
2381-21-7	Pyrene, 1-methyl- (13.52423)	ug/Kg				
7225-66-3	Tridecane, 7-hexyl-	ug/Kg			450 JN	
1705-84-6	Triphenylene, 2-methyl-	ug/Kg				
239-01-0	11H-Benzo[a]carbazole	ug/Kg				
238-84-6	11H-Benzo[a]fluorene	ug/Kg				
243-17-4	11H-Benzo[b]fluorene	ug/Kg				
1599-67-3	1-Docosene	ug/Kg				
77899-03-7	1-Heneicosyl formate	ug/Kg			1100 JN	970 JN
1454-85-9	1-Heptadecanol	ug/Kg				
36653-82-4	1-Hexadecanol	ug/Kg				
18435-45-5	1-Nonadecene	ug/Kg				
3133-01-5	1-Tricosanol	ug/Kg				
18835-32-0	1-Tricosene	ug/Kg				
35465-71-5	2-Phenylnaphthalene	ug/Kg	30000 JN			
203-64-5	4H-Cyclopenta[def]phenanthrene	ug/Kg	67000 JN			
82-05-3	7H-Benz[de]anthracen-7-one	ug/Kg				
215-58-7	Benzo[b]triphenylene	ug/Kg				
192-97-2	Benzo[e]pyrene	ug/Kg	29000 JN			
205-82-3	Benzo[j]fluoranthene	ug/Kg				
119-61-9	Benzophenone	ug/Kg				
128-37-0	Butylated Hydroxytoluene	ug/Kg				
191-07-1	Coronene	ug/Kg				
191-07-1	Coronene (15.39852)	ug/Kg		3300 JN		
191-07-1	Coronene (15.62178)	ug/Kg		1800 JN		
191-07-1	Coronene (16.80278)	ug/Kg		5000 JN		
112-95-8	Eicosane	ug/Kg				510 JN
629-94-7	Heneicosane	ug/Kg	1200 JN			
593-49-7	Heptacosane	ug/Kg				
629-78-7	Heptadecane	ug/Kg				
57-10-3	HEXADECANOIC ACID	ug/Kg			1200 JN	930 JN
630-02-4	Octacosane	ug/Kg				520 JN
557-61-9	Octacosanol	ug/Kg				
593-45-3	Octadecane	ug/Kg				
57-11-4	Octadecanoic acid	ug/Kg			470 JN	370 JN
198-55-0	Perylene	ug/Kg		1100 JN		
198-55-0	Perylene (16.11522)	ug/Kg				
198-55-0	Perylene (16.33848)	ug/Kg				
197-61-5	Rubicene-	ug/Kg				
646-31-1	Tetracosane	ug/Kg				440 JN
646-31-1	Tetracosane (15.09893)	ug/Kg			540 JN	
646-31-1	Tetracosane (15.56312)	ug/Kg			490 JN	
14167-59-0	Tetratriacontane	ug/Kg				
7098-21-7	Tritetracontane	ug/Kg				
UNKSV1	Unknown SemiVolatile Organic With Highest Conc.	ug/Kg	32000 J	2900 J	740 J	850 J
UNKSV2	Unknown SemiVolatile Organic With 2nd Highest Conc.	ug/Kg	15000 J	2400 J		340 J
UNKSV3	Unknown SemiVolatile Organic With 3rd Highest Conc.	ug/Kg	11000 J	2400 J		
UNKSV4	Unknown SemiVolatile Organic With 4th Highest Conc.	ug/Kg	11000 J	2200 J		
UNKSV5	Unknown SemiVolatile Organic With 5th Highest Conc.	ug/Kg	9800 J	2000 J		
UNKSV6	Unknown SemiVolatile Organic With 6th Highest Conc.	ug/Kg	9000 J	1900 J		
UNKSV7	Unknown SemiVolatile Organic With 7th Highest Conc.	ug/Kg	7900 J	1700 J		
UNKSV8	Unknown SemiVolatile Organic With 8th Highest Conc.	ug/Kg	3200 J	1600 J		
UNKSV9	Unknown SemiVolatile Organic With 9th Highest Conc.	ug/Kg	2900 J	1500 J		
UNKSV10	Unknown SemiVolatile Organic With 10th Highest Conc.	ug/Kg	2000 J	1300 J		
UNKSV11	Unknown SemiVolatile Organic With 11th Highest Conc.	ug/Kg	1800 J	1300 J		
UNKSV12	Unknown SemiVolatile Organic With 12th Highest Conc.	ug/Kg	1700 J	1200 J		
UNKSV13	Unknown SemiVolatile Organic With 13th Highest Conc.	ug/Kg		1100 J		
UNKSV14	Unknown SemiVolatile Organic With 14th Highest Conc.	ug/Kg				
UNKSV15	Unknown SemiVolatile Organic With 15th Highest Conc.	ug/Kg				

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CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	8.1 U	8.8 UJ	10 UJ	7.4 UJ
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	8.1 U	8.8 U	10 UJ	7.4 UJ
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	8.1 U	8.8 UJ	10 UJ	7.4 UJ
75-35-4	1,1-DICHLOROETHENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	8.1 U	8.8 U	10 UJ	7.4 UJ
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	1.8 J	8.8 U	19000 J	170
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/Kg	8.1 U	8.8 U	11000 J	88
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	160 UJ	180 UJ	210 UJ	150 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	8.1 U	8.8 UJ	10 UJ	7.4 UJ
95-49-8	2-CHLOROTOLUENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
591-78-6	2-HEXANONE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
67-64-1	ACETONE	ug/Kg	16	15	28	7.4 U
71-43-2	BENZENE	ug/Kg	19	8.8 U	85	95
108-86-1	BROMOBENZENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
75-25-2	BROMOFORM	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
74-83-9	BROMOMETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
75-15-0	CARBON DISULFIDE	ug/Kg	3.3 J	8.8 U	5.6 J	9.4
56-23-5	CARBON TETRACHLORIDE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
108-90-7	CHLOROBENZENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
75-00-3	CHLOROETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
67-66-3	CHLOROFORM	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
74-87-3	CHLOROMETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	ug/Kg	8.1 U	8.8 U	27	13
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
74-95-3	DIBROMOMETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	4.4 J	8.8 U	32000 J	380
100-41-4	ETHYLBENZENE	ug/Kg	3.2 J	8.8 U	38000	530 J
74-88-4	IODOMETHANE (METHYL IODIDE)	ug/Kg	8.1 U	8.8 U	10 UJ	7.4 UJ
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/Kg	8.1 U	8.8 U	63	26
179601-23-1	M,P-XYLENE	ug/Kg	2.7 J	8.8 U	24000 J	270
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
104-51-8	N-BUTYLBENZENE	ug/Kg	8.1 U	8.8 U	24	8.6
103-65-1	N-PROPYLBENZENE	ug/Kg	8.1 U	8.8 U	46	16
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/Kg	1.7 J	8.8 U	8500 J	110
135-98-8	SEC-BUTYLBENZENE	ug/Kg	8.1 U	8.8 U	7.4 J	3 J
100-42-5	STYRENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
98-06-6	T-BUTYLBENZENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	16 U	18 U	21 U	15 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/Kg	29	8.8 U	10 U	7.4 U
108-88-3	TOLUENE	ug/Kg	4.6 J	8.8 U	3700 J	51
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	12	8.8 U	10 U	7.4 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	20	8.8 UJ	10 UJ	7.4 UJ
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
108-05-4	VINYL ACETATE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U
75-01-4	VINYL CHLORIDE	ug/Kg	8.1 U	8.8 U	10 U	7.4 U

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CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	760 U	750 U	830 U	770 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	370 U	370 U	410 U	380 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	370 U	370 U	410 U	380 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	370 U	370 U	410 U	380 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	760 U	750 U	830 U	770 U
121-14-2	2,4-DINITROTOLUENE	ug/Kg	370 U	370 U	410 U	380 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	370 U	370 U	410 U	380 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	370 U	370 U	410 U	380 U
95-57-8	2-CHLOROPHENOL	ug/Kg	370 U	370 U	410 U	380 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	370 U	370 U	7000	780
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	370 U	370 U	410 U	380 U
88-74-4	2-NITROANILINE	ug/Kg	760 U	750 U	830 U	770 U
88-75-5	2-NITROPHENOL	ug/Kg	370 U	370 U	410 U	380 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	370 U	370 U	410 U	380 U
99-09-2	3-NITROANILINE	ug/Kg	760 U	750 U	830 U	770 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	760 U	750 U	830 U	770 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	370 U	370 U	410 U	380 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	370 U	370 U	410 U	380 U
106-47-8	4-CHLOROANILINE	ug/Kg	370 U	370 U	410 U	380 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	370 U	370 U	410 U	380 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/Kg	370 U	370 U	410 U	380 U
100-01-6	4-NITROANILINE	ug/Kg	760 U	750 U	830 U	770 U
100-02-7	4-NITROPHENOL	ug/Kg	760 U	750 U	830 U	770 U
83-32-9	ACENAPHTHENE	ug/Kg	330 J	370 U	16000	2100
208-96-8	ACENAPHTHYLENE	ug/Kg	160 J	370 U	2200	330 J
120-12-7	ANTHRACENE	ug/Kg	94 J	370 U	7600	1700
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	260 J	370 U	6200	1800
50-32-8	BENZO(A)PYRENE	ug/Kg	370 J	370 U	9100	2000
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	260 J	370 U	6600	1800
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	380	370 U	11000	1700
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	110 J	370 U	2700	880
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	370 U	370 U	410 U	380 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	370 U	370 U	410 U	380 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	370 U	370 U	410 U	380 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	370 U	370 U	410 U	380 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	370 U	370 U	110 J	380 U
86-74-8	CARBAZOLE	ug/Kg	370 U	370 U	490	440
218-01-9	CHRYSENE	ug/Kg	250 J	370 U	6500	1800
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	370 U	370 U	590	180 J
132-64-9	DIBENZOFURAN	ug/Kg	370 U	370 U	550	440
84-66-2	DIETHYL PHTHALATE	ug/Kg	370 U	370 U	410 U	380 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	370 U	370 U	410 U	380 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	370 U	370 U	410 U	380 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	370 U	370 U	410 U	380 U
206-44-0	FLUORANTHENE	ug/Kg	410	370 U	22000	5400
86-73-7	FLUORENE	ug/Kg	78 J	370 U	5700	1200
118-74-1	HEXACHLOROBENZENE	ug/Kg	370 U	370 U	410 U	380 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	370 U	370 U	410 U	380 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	370 U	370 U	410 U	380 U
67-72-1	HEXACHLOROETHANE	ug/Kg	370 U	370 U	410 U	380 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	250 J	370 U	6200	1300
78-59-1	ISOPHORONE	ug/Kg	370 U	370 U	410 U	380 U
91-20-3	NAPHTHALENE	ug/Kg	380	370 U	29000	2500
98-95-3	NITROBENZENE	ug/Kg	370 U	370 U	410 U	380 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	370 U	370 U	410 U	380 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	370 U	370 U	410 U	380 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	760 U	750 U	830 U	770 U
85-01-8	PHENANTHRENE	ug/Kg	350 J	370 U	32000	6800
108-95-2	PHENOL	ug/Kg	370 U	370 U	410 U	380 U
129-00-0	PYRENE	ug/Kg	1700	370 U	41000	7500
	OTHER					
57-12-5	CYANIDE	mg/Kg	0.822 J+	0.461 U	0.631 J+	0.48 J
MOIST	MOISTURE, PERCENT	%	12	11	20	15

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-10 JT-SB-10 (16-18) P1561-07 MITKEM P1561 SO 10/28/2015 11:40 12/28/2015	JT-SB-10 JT-SB-10 (28-30) P1561-08 MITKEM P1561 SO 10/28/2015 12:30 12/28/2015	JT-SB-11 JT-SB-11 (24-25.1) P1561-09 MITKEM P1561 SO 10/28/2015 16:55 12/28/2015	JT-SB-11 JT-SB-11 (28-30) P1561-10 MITKEM P1561 SO 10/28/2015 17:20 12/28/2015
CAS NO.	COMPOUND	UNITS:				
	VOLATILE TICs					
767-59-9	1H-Indene, 1-methyl-	ug/Kg			300 JN	110 JN
2177-47-1	2-Methylindene	ug/Kg				
65051-83-4	Benzene, (1-methyl-2-cyclopropen-1-yl)-	ug/Kg				130 JN
527-53-7	Benzene, 1,2,3,5-tetramethyl-	ug/Kg				
526-73-8	Benzene, 1,2,3-trimethyl-	ug/Kg			140 JN	
95-93-2	Benzene, 1,2,4,5-tetramethyl-	ug/Kg				
611-14-3	Benzene, 1-ethyl-2-methyl-	ug/Kg				200 JN
934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	ug/Kg				
620-14-4	Benzene, 1-ethyl-3-methyl-	ug/Kg			360 JN	
6783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	ug/Kg				
15677-15-3	Cycloprop[a]indene, 1,1a,6,6a-tetrahydro	ug/Kg			250 JN	
124-18-5	Decane	ug/Kg			170 JN	99 JN
496-11-7	Indane	ug/Kg			130 JN	
95-13-6	Indene	ug/Kg			60000 JN	350 JN
108-87-2	METHYLCYCLOHEXANE	ug/Kg				43 JN
29949-27-7	n-Amylcyclohexane	ug/Kg				
90-12-0	Naphthalene, 1-methyl-	ug/Kg			46000 JN	220 JN
581-42-0	Naphthalene, 2,6-dimethyl-	ug/Kg				
111-84-2	Nonane	ug/Kg			520 JN	
17302-28-2	Nonane, 2,6-dimethyl-	ug/Kg				
111-65-9	Octane	ug/Kg			410 JN	170 JN
15869-94-0	Octane, 3,6-dimethyl-	ug/Kg				
1120-21-4	Undecane	ug/Kg			170 JN	
17301-23-4	Undecane, 2,6-dimethyl-	ug/Kg				
UNKVOA1	Unknown Volatile Organic With Highest Conc.	ug/Kg			140 J	210 J
UNKVOA2	Unknown Volatile Organic With 2nd Highest Conc.	ug/Kg				120 J
UNKVOA3	Unknown Volatile Organic With 3rd Highest Conc.	ug/Kg				46 J
UNKVOA4	Unknown Volatile Organic With 4th Highest Conc.	ug/Kg				
UNKVOA5	Unknown Volatile Organic With 5th Highest Conc.	ug/Kg				
	SEMIVOLATILE TICs					
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	570 JN	560 JN		
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg				
55312-69-1	1,1'-Biphenyl, 2,2',3,4,5-Pentachloro-	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (14.72282)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (15.46295)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (17.18450)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (17.57248)	ug/Kg				
95008-11-0	10-Heneicosene (c,t)	ug/Kg		900 JN		
112-84-5	13-Docosenamide, (Z)-	ug/Kg				
86711-81-1	2- Chloropropionic acid, hexadecyl ester	ug/Kg	590 JN			
88104-31-8	2- Chloropropionic acid, octadecyl ester	ug/Kg			530 JN	
111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10	ug/Kg				550 JN
189-64-0	3,4:8,9-Dibenzopyrene	ug/Kg				
189-55-9	3,4:9,10-Dibenzopyrene	ug/Kg				
107770-99-0	3,5-Dimethyldodecane	ug/Kg				
74685-30-6	5-Eicosene, (E)-	ug/Kg				
1556-99-6	9H-Fluorene, 4-methyl-	ug/Kg				
2523-37-7	9H-Fluorene, 9-methyl-	ug/Kg				
27519-02-4	9-Tricosene, (Z)-	ug/Kg		320 JN		
613-12-7	Anthracene, 2-methyl-	ug/Kg				
2541-69-7	Benz[a]anthracene, 7-methyl- (14.79322)	ug/Kg				590 JN
2541-69-7	Benz[a]anthracene, 7-methyl- (14.83435)	ug/Kg				390 JN
239-35-0	Benzo[b]naphtho[2,1-d]thiophene	ug/Kg				340 JN
5385-75-1	Dibenz(a,e)aceanthrylene	ug/Kg				
191-26-4	Dibenzo[def,mno]chrysene	ug/Kg			3900 JN	520 JN
13475-76-8	Docosane, 11-butyl-	ug/Kg				
2136-70-1	Ethanol, 2-(tetradecyloxy)-	ug/Kg				
33543-31-6	Fluoranthene, 2-methyl-	ug/Kg				800 JN
14739-72-1	Heneicosane, 11-pentyl-	ug/Kg				
55124-79-3	Heptadecane, 9-hexyl-	ug/Kg				
90-12-0	Naphthalene, 1-methyl-	ug/Kg			3500 JN	
581-40-8	Naphthalene, 2,3-dimethyl- (8.82355)	ug/Kg				
581-40-8	Naphthalene, 2,3-dimethyl- (8.96457)	ug/Kg				
612-94-2	Naphthalene, 2-phenyl-	ug/Kg			740 JN	
832-69-9	Phenanthrene, 1-methyl-	ug/Kg				
1576-69-8	Phenanthrene, 2,7-dimethyl-	ug/Kg				
2531-84-2	Phenanthrene, 2-methyl-	ug/Kg			3100 JN	750 JN
848-62-4	Pregnan-20-one, (5.alpha.)-	ug/Kg				

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CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
2381-21-7	Pyrene, 1-methyl-	ug/Kg				
2381-21-7	Pyrene, 1-methyl- (13.37735)	ug/Kg			540 JN	
2381-21-7	Pyrene, 1-methyl- (13.52423)	ug/Kg			790 JN	
7225-66-3	Tridecane, 7-hexyl-	ug/Kg				
1705-84-6	Triphenylene, 2-methyl-	ug/Kg			510 JN	
239-01-0	11H-Benzo[a]carbazole	ug/Kg				630 JN
238-84-6	11H-Benzo[a]fluorene	ug/Kg			670 JN	
243-17-4	11H-Benzo[b]fluorene	ug/Kg			600 JN	380 JN
1599-67-3	1-Docosene	ug/Kg				
77899-03-7	1-Heneicosyl formate	ug/Kg				
1454-85-9	1-Heptadecanol	ug/Kg				
36653-82-4	1-Hexadecanol	ug/Kg				
18435-45-5	1-Nonadecene	ug/Kg				
3133-01-5	1-Tricosanol	ug/Kg				
18835-32-0	1-Tricosene	ug/Kg				
35465-71-5	2-Phenylnaphthalene	ug/Kg				740 JN
203-64-5	4H-Cyclopenta[def]phenanthrene	ug/Kg			7100 JN	1700 JN
82-05-3	7H-Benz[de]anthracen-7-one	ug/Kg			650 JN	430 JN
215-58-7	Benzo[b]triphenylene	ug/Kg				
192-97-2	Benzo[e]pyrene	ug/Kg			8300 JN	
205-82-3	Benzo[j]fluoranthene	ug/Kg			2700 JN	
119-61-9	Benzophenone	ug/Kg				
128-37-0	Butylated Hydroxytoluene	ug/Kg				
191-07-1	Coronene	ug/Kg				530 JN
191-07-1	Coronene (15.39852)	ug/Kg				
191-07-1	Coronene (15.62178)	ug/Kg				
191-07-1	Coronene (16.80278)	ug/Kg				
112-95-8	Eicosane	ug/Kg				
629-94-7	Heneicosane	ug/Kg				
593-49-7	Heptacosane	ug/Kg				
629-78-7	Heptadecane	ug/Kg				
57-10-3	HEXADECANOIC ACID	ug/Kg	580 JN	690 JN		
630-02-4	Octacosane	ug/Kg				
557-61-9	Octacosanol	ug/Kg		330 JN		
593-45-3	Octadecane	ug/Kg				
57-11-4	Octadecanoic acid	ug/Kg				
198-55-0	Perylene	ug/Kg				
198-55-0	Perylene (16.11522)	ug/Kg				1200 JN
198-55-0	Perylene (16.33848)	ug/Kg				1900 JN
197-61-5	Rubicene-	ug/Kg				
646-31-1	Tetracosane	ug/Kg				
646-31-1	Tetracosane (15.09893)	ug/Kg				
646-31-1	Tetracosane (15.56312)	ug/Kg				
14167-59-0	Tetratriacontane	ug/Kg				
7098-21-7	Tritetracontane	ug/Kg				
UNKSV1	Unknown SemiVolatile Organic With Highest Conc.	ug/Kg	350 J	330 J	770 J	750 J
UNKSV2	Unknown SemiVolatile Organic With 2nd Highest Conc.	ug/Kg	330 J		760 J	600 J
UNKSV3	Unknown SemiVolatile Organic With 3rd Highest Conc.	ug/Kg	310 J		680 J	570 J
UNKSV4	Unknown SemiVolatile Organic With 4th Highest Conc.	ug/Kg			520 J	420 J
UNKSV5	Unknown SemiVolatile Organic With 5th Highest Conc.	ug/Kg				390 J
UNKSV6	Unknown SemiVolatile Organic With 6th Highest Conc.	ug/Kg				350 J
UNKSV7	Unknown SemiVolatile Organic With 7th Highest Conc.	ug/Kg				320 J
UNKSV8	Unknown SemiVolatile Organic With 8th Highest Conc.	ug/Kg				320 J
UNKSV9	Unknown SemiVolatile Organic With 9th Highest Conc.	ug/Kg				
UNKSV10	Unknown SemiVolatile Organic With 10th Highest Conc.	ug/Kg				
UNKSV11	Unknown SemiVolatile Organic With 11th Highest Conc.	ug/Kg				
UNKSV12	Unknown SemiVolatile Organic With 12th Highest Conc.	ug/Kg				
UNKSV13	Unknown SemiVolatile Organic With 13th Highest Conc.	ug/Kg				
UNKSV14	Unknown SemiVolatile Organic With 14th Highest Conc.	ug/Kg				
UNKSV15	Unknown SemiVolatile Organic With 15th Highest Conc.	ug/Kg				

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CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	3.7 J	4.2 J	14 U	9.3 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	9.6 UJ	7.6 U	14 U	9.3 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/Kg	2.6 J	7.6 U	14 U	9.3 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	190 UJ	150 UJ	280 UJ	190 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	9.6 UJ	7.6 U	14 U	9.3 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
591-78-6	2-HEXANONE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
67-64-1	ACETONE	ug/Kg	33	9.7	14 U	43
71-43-2	BENZENE	ug/Kg	9.6 U	7.6 U	9.5 J	9.3 U
108-86-1	BROMOBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-25-2	BROMOFORM	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
74-83-9	BROMOMETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-15-0	CARBON DISULFIDE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
108-90-7	CHLOROBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-00-3	CHLOROETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
67-66-3	CHLOROFORM	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
74-87-3	CHLOROMETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
74-95-3	DIBROMOMETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
100-41-4	ETHYLBENZENE	ug/Kg	2.6 J	7.6 U	14 U	9.3 U
74-88-4	IODOMETHANE (METHYL IODIDE)	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
179601-23-1	M,P-XYLENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	9.6 U	15	14 U	9.3 U
104-51-8	N-BUTYLBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
103-65-1	N-PROPYLBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
100-42-5	STYRENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
98-06-6	T-BUTYLBENZENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	19 U	15 U	28 U	19 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
108-88-3	TOLUENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
108-05-4	VINYL ACETATE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U
75-01-4	VINYL CHLORIDE	ug/Kg	9.6 U	7.6 U	14 U	9.3 U

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CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	850 U	1000 U	930 U	920 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	420 U	510 U	460 U	450 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	420 U	510 U	460 U	450 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	420 U	510 U	460 U	450 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	850 U	1000 U	930 U	920 U
121-14-2	2,4-DINITROTOLUENE	ug/Kg	420 U	510 U	460 U	450 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	420 U	510 U	460 U	450 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	420 U	510 U	460 U	450 U
95-57-8	2-CHLOROPHENOL	ug/Kg	420 U	510 U	460 U	450 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	310 J	510 U	460 U	450 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	420 U	510 U	460 U	450 U
88-74-4	2-NITROANILINE	ug/Kg	850 U	1000 U	930 U	920 U
88-75-5	2-NITROPHENOL	ug/Kg	420 U	510 U	460 U	450 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	420 U	510 U	460 U	450 U
99-09-2	3-NITROANILINE	ug/Kg	850 U	1000 U	930 U	920 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	850 U	1000 U	930 U	920 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	420 U	510 U	460 U	450 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	420 U	510 U	460 U	450 U
106-47-8	4-CHLOROANILINE	ug/Kg	420 U	510 U	460 U	450 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	420 U	510 U	460 U	450 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/Kg	420 U	510 U	460 U	450 U
100-01-6	4-NITROANILINE	ug/Kg	850 U	1000 U	930 U	920 U
100-02-7	4-NITROPHENOL	ug/Kg	850 U	1000 U	930 U	920 U
83-32-9	ACENAPHTHENE	ug/Kg	600	510 U	460 U	450 U
208-96-8	ACENAPHTHYLENE	ug/Kg	150 J	510 U	460 U	450 U
120-12-7	ANTHRACENE	ug/Kg	760	510 U	160 J	450 U
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	930	140 J	710	450 U
50-32-8	BENZO(A)PYRENE	ug/Kg	1000	120 J	690	450 U
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	1000	130 J	740	450 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	780	510 U	450 J	450 U
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	420 J	510 U	350 J	450 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	420 U	510 U	460 U	450 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	420 U	510 U	460 U	450 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	420 U	510 U	460 U	450 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	420 U	510 U	460 U	450 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	420 U	510 U	460 U	450 U
86-74-8	CARBAZOLE	ug/Kg	110 J	510 U	460 U	450 U
218-01-9	CHRYSENE	ug/Kg	1000	140 J	610	450 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	110 J	510 U	100 J	450 U
132-64-9	DIBENZOFURAN	ug/Kg	140 J	510 U	460 U	450 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	420 U	510 U	460 U	450 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	420 U	510 U	460 U	450 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	420 U	510 U	460 U	450 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	420 U	510 U	460 U	450 U
206-44-0	FLUORANTHENE	ug/Kg	2700	340 J	890	450 U
86-73-7	FLUORENE	ug/Kg	410 J	510 U	460 U	450 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	420 U	510 U	460 U	450 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	420 U	510 U	460 U	450 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	420 U	510 U	460 U	450 U
67-72-1	HEXACHLOROETHANE	ug/Kg	420 U	510 U	460 U	450 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	680	510 U	530	450 U
78-59-1	ISOPHORONE	ug/Kg	420 U	510 U	460 U	450 U
91-20-3	NAPHTHALENE	ug/Kg	710	510 U	130 J	450 U
98-95-3	NITROBENZENE	ug/Kg	420 U	510 U	460 U	450 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	420 U	510 U	460 U	450 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	420 U	510 U	460 U	450 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	850 U	1000 U	930 U	920 U
85-01-8	PHENANTHRENE	ug/Kg	2800	340 J	380 J	450 U
108-95-2	PHENOL	ug/Kg	420 U	510 U	460 U	450 U
129-00-0	PYRENE	ug/Kg	3000	380 J	1000	450 U
	OTHER					
57-12-5	CYANIDE	mg/Kg	1.85 J+	8.85 J+	0.703 U	0.609 U
MOIST	MOISTURE, PERCENT	%	24	36	29	27

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-12 JT-SB-12 (24-24.3) P1561-19 MITKEM P1561 SO 10/30/2015 10:15 12/28/2015	JT-SB-12 JT-SB-12 (8-10) P1561-18 MITKEM P1561 SO 10/30/2015 8:50 12/28/2015	JT-SB-13 JT-SB-13 (18-20) P1561-11 MITKEM P1561 SO 10/29/2015 10:00 12/28/2015	JT-SB-13 JT-SB-13 (22-24) P1561-12 MITKEM P1561 SO 10/29/2015 10:10 12/28/2015
CAS NO.	COMPOUND	UNITS:				
	VOLATILE TICs					
767-59-9	1H-Indene, 1-methyl-	ug/Kg				
2177-47-1	2-Methylindene	ug/Kg				
65051-83-4	Benzene, (1-methyl-2-cyclopropen-1-yl)-	ug/Kg				
527-53-7	Benzene, 1,2,3,5-tetramethyl-	ug/Kg				
526-73-8	Benzene, 1,2,3-trimethyl-	ug/Kg				
95-93-2	Benzene, 1,2,4,5-tetramethyl-	ug/Kg				
611-14-3	Benzene, 1-ethyl-2-methyl-	ug/Kg				
934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	ug/Kg				
620-14-4	Benzene, 1-ethyl-3-methyl-	ug/Kg				
6783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	ug/Kg				
15677-15-3	Cycloprop[a]indene, 1,1a,6,6a-tetrahydro	ug/Kg				
124-18-5	Decane	ug/Kg	24 JN	17 JN		
496-11-7	Indane	ug/Kg				
95-13-6	Indene	ug/Kg				
108-87-2	METHYLCYCLOHEXANE	ug/Kg				
29949-27-7	n-Amylcyclohexane	ug/Kg				
90-12-0	Naphthalene, 1-methyl-	ug/Kg				
581-42-0	Naphthalene, 2,6-dimethyl-	ug/Kg				
111-84-2	Nonane	ug/Kg	22 JN			
17302-28-2	Nonane, 2,6-dimethyl-	ug/Kg				
111-65-9	Octane	ug/Kg	11 JN			
15869-94-0	Octane, 3,6-dimethyl-	ug/Kg				
1120-21-4	Undecane	ug/Kg	17 JN	21 JN		
17301-23-4	Undecane, 2,6-dimethyl-	ug/Kg				
UNKVOA1	Unknown Volatile Organic With Highest Conc.	ug/Kg		15 J		
UNKVOA2	Unknown Volatile Organic With 2nd Highest Conc.	ug/Kg		7.9 J		
UNKVOA3	Unknown Volatile Organic With 3rd Highest Conc.	ug/Kg				
UNKVOA4	Unknown Volatile Organic With 4th Highest Conc.	ug/Kg				
UNKVOA5	Unknown Volatile Organic With 5th Highest Conc.	ug/Kg				
	SEMIVOLATILE TICs					
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg				
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg				
55312-69-1	1,1'-Biphenyl, 2,2',3,4,5-Pentachloro-	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (14.72282)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (15.46295)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (17.18450)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (17.57248)	ug/Kg				
95008-11-0	10-Heneicosene (c,t)	ug/Kg				
112-84-5	13-Docosenamide, (Z)-	ug/Kg				
86711-81-1	2- Chloropropionic acid, hexadecyl ester	ug/Kg				
88104-31-8	2- Chloropropionic acid, octadecyl ester	ug/Kg				
111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10	ug/Kg				
189-64-0	3,4:8,9-Dibenzopyrene	ug/Kg				
189-55-9	3,4:9,10-Dibenzopyrene	ug/Kg				
107770-99-0	3,5-Dimethyldodecane	ug/Kg				
74685-30-6	5-Eicosene, (E)-	ug/Kg				760 JN
1556-99-6	9H-Fluorene, 4-methyl-	ug/Kg				
2523-37-7	9H-Fluorene, 9-methyl-	ug/Kg				
27519-02-4	9-Tricosene, (Z)-	ug/Kg		1000 JN		
613-12-7	Anthracene, 2-methyl-	ug/Kg				
2541-69-7	Benz[a]anthracene, 7-methyl- (14.79322)	ug/Kg				
2541-69-7	Benz[a]anthracene, 7-methyl- (14.83435)	ug/Kg				
239-35-0	Benzo[b]naphtho[2,1-d]thiophene	ug/Kg				
5385-75-1	Dibenz(a,e)aceanthrylene	ug/Kg				410 JN
191-26-4	Dibenzo[def,mno]chrysene	ug/Kg				
13475-76-8	Docosane, 11-butyl-	ug/Kg				
2136-70-1	Ethanol, 2-(tetradecyloxy)-	ug/Kg			410 JN	
33543-31-6	Fluoranthene, 2-methyl-	ug/Kg				
14739-72-1	Heneicosane, 11-pentyl-	ug/Kg				
55124-79-3	Heptadecane, 9-hexyl-	ug/Kg				
90-12-0	Naphthalene, 1-methyl-	ug/Kg				
581-40-8	Naphthalene, 2,3-dimethyl- (8.82355)	ug/Kg				
581-40-8	Naphthalene, 2,3-dimethyl- (8.96457)	ug/Kg				
612-94-2	Naphthalene, 2-phenyl-	ug/Kg				
832-69-9	Phenanthrene, 1-methyl-	ug/Kg				
1576-69-8	Phenanthrene, 2,7-dimethyl-	ug/Kg				
2531-84-2	Phenanthrene, 2-methyl-	ug/Kg				
848-62-4	Pregnan-20-one, (5.alpha.)-	ug/Kg				

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-12 JT-SB-12 (24-24.3) P1561-19 MITKEM P1561 SO 10/30/2015 10:15 12/28/2015	JT-SB-12 JT-SB-12 (8-10) P1561-18 MITKEM P1561 SO 10/30/2015 8:50 12/28/2015	JT-SB-13 JT-SB-13 (18-20) P1561-11 MITKEM P1561 SO 10/29/2015 10:00 12/28/2015	JT-SB-13 JT-SB-13 (22-24) P1561-12 MITKEM P1561 SO 10/29/2015 10:10 12/28/2015
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
2381-21-7	Pyrene, 1-methyl-	ug/Kg				
2381-21-7	Pyrene, 1-methyl- (13.37735)	ug/Kg				
2381-21-7	Pyrene, 1-methyl- (13.52423)	ug/Kg				
7225-66-3	Tridecane, 7-hexyl-	ug/Kg				
1705-84-6	Triphenylene, 2-methyl-	ug/Kg				
239-01-0	11H-Benzo[a]carbazole	ug/Kg				
238-84-6	11H-Benzo[a]fluorene	ug/Kg				
243-17-4	11H-Benzo[b]fluorene	ug/Kg				
1599-67-3	1-Docosene	ug/Kg		420 JN		
77899-03-7	1-Heneicosyl formate	ug/Kg				
1454-85-9	1-Heptadecanol	ug/Kg			720 JN	
36653-82-4	1-Hexadecanol	ug/Kg				
18435-45-5	1-Nonadecene	ug/Kg				
3133-01-5	1-Tricosanol	ug/Kg				
18835-32-0	1-Tricosene	ug/Kg	480 JN			
35465-71-5	2-Phenylnaphthalene	ug/Kg				
203-64-5	4H-Cyclopenta[def]phenanthrene	ug/Kg	460 JN			
82-05-3	7H-Benz[de]anthracen-7-one	ug/Kg				
215-58-7	Benzo[b]triphenylene	ug/Kg	340 JN			
192-97-2	Benzo[e]pyrene	ug/Kg	360 JN			
205-82-3	Benzo[j]fluoranthene	ug/Kg				
119-61-9	Benzophenone	ug/Kg				
128-37-0	Butylated Hydroxytoluene	ug/Kg				
191-07-1	Coronene	ug/Kg				
191-07-1	Coronene (15.39852)	ug/Kg				
191-07-1	Coronene (15.62178)	ug/Kg				
191-07-1	Coronene (16.80278)	ug/Kg				
112-95-8	Eicosane	ug/Kg				
629-94-7	Heneicosane	ug/Kg				
593-49-7	Heptacosane	ug/Kg				
629-78-7	Heptadecane	ug/Kg		510 JN		
57-10-3	HEXADECANOIC ACID	ug/Kg	380 JN	600 JN	510 JN	590 JN
630-02-4	Octacosane	ug/Kg				
557-61-9	Octacosanol	ug/Kg				
593-45-3	Octadecane	ug/Kg				
57-11-4	Octadecanoic acid	ug/Kg				
198-55-0	Perylene	ug/Kg				
198-55-0	Perylene (16.11522)	ug/Kg				
198-55-0	Perylene (16.33848)	ug/Kg				
197-61-5	Rubicene-	ug/Kg				
646-31-1	Tetracosane	ug/Kg				
646-31-1	Tetracosane (15.09893)	ug/Kg				
646-31-1	Tetracosane (15.56312)	ug/Kg				
14167-59-0	Tetratriacontane	ug/Kg				
7098-21-7	Tritetracontane	ug/Kg				
UNKSV1	Unknown SemiVolatile Organic With Highest Conc.	ug/Kg	390 J		450 J	790 J
UNKSV2	Unknown SemiVolatile Organic With 2nd Highest Conc.	ug/Kg			420 J	
UNKSV3	Unknown SemiVolatile Organic With 3rd Highest Conc.	ug/Kg			390 J	
UNKSV4	Unknown SemiVolatile Organic With 4th Highest Conc.	ug/Kg				
UNKSV5	Unknown SemiVolatile Organic With 5th Highest Conc.	ug/Kg				
UNKSV6	Unknown SemiVolatile Organic With 6th Highest Conc.	ug/Kg				
UNKSV7	Unknown SemiVolatile Organic With 7th Highest Conc.	ug/Kg				
UNKSV8	Unknown SemiVolatile Organic With 8th Highest Conc.	ug/Kg				
UNKSV9	Unknown SemiVolatile Organic With 9th Highest Conc.	ug/Kg				
UNKSV10	Unknown SemiVolatile Organic With 10th Highest Conc.	ug/Kg				
UNKSV11	Unknown SemiVolatile Organic With 11th Highest Conc.	ug/Kg				
UNKSV12	Unknown SemiVolatile Organic With 12th Highest Conc.	ug/Kg				
UNKSV13	Unknown SemiVolatile Organic With 13th Highest Conc.	ug/Kg				
UNKSV14	Unknown SemiVolatile Organic With 14th Highest Conc.	ug/Kg				
UNKSV15	Unknown SemiVolatile Organic With 15th Highest Conc.	ug/Kg				

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561			Dup of JT-SB-13 (22-24)			
		Location ID:	JT-SB-13	JT-SB-14	JT-SB-14	JT-SB-15
		Sample ID:	JT-SB-DUP	JT-SB-14 (12-14)	JT-SB-14 (28-30)	JT-SB-15 (22-24)
		Lab Sample Id:	P1561-13	P1561-14	P1561-15	P1561-16
		Source:	MITKEM	MITKEM	MITKEM	MITKEM
		SDG:	P1561	P1561	P1561	P1561
		Matrix:	SO	SO	SO	SO
		Sampled:	10/29/2015 0:00	10/29/2015 13:50	10/29/2015 14:50	10/29/2015 17:00
		Validated:	12/28/2015	12/28/2015	12/28/2015	12/28/2015
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	11 U	200	9.7 U	8.9 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	11 U	16 UJ	9.7 UJ	8.9 UJ
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/Kg	11 U	110	9.7 U	8.9 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	220 UJ	320 UJ	190 UJ	180 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	11 U	16 UJ	9.7 UJ	8.9 UJ
95-49-8	2-CHLOROTOLUENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
591-78-6	2-HEXANONE	ug/Kg	11 U	16 U	9.7 U	8.9 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
67-64-1	ACETONE	ug/Kg	28	38	12	8.9 U
71-43-2	BENZENE	ug/Kg	11 U	66	9.7 U	8.9 U
108-86-1	BROMOBENZENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-25-2	BROMOFORM	ug/Kg	11 U	16 U	9.7 U	8.9 U
74-83-9	BROMOMETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-15-0	CARBON DISULFIDE	ug/Kg	11 U	6 J	9.7 U	8.9 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	11 U	16 U	9.7 U	8.9 U
108-90-7	CHLOROBENZENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-00-3	CHLOROETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
67-66-3	CHLOROFORM	ug/Kg	11 U	16 U	9.7 U	8.9 U
74-87-3	CHLOROMETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	ug/Kg	11 U	33	9.7 U	8.9 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
74-95-3	DIBROMOMETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	11 U	220	9.7 U	8.9 U
100-41-4	ETHYLBENZENE	ug/Kg	11 U	250	9.7 U	8.9 U
74-88-4	IODOMETHANE (METHYL IODIDE)	ug/Kg	11 U	16 U	9.7 U	8.9 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/Kg	11 U	30	9.7 U	8.9 U
179601-23-1	M,P-XYLENE	ug/Kg	11 U	120	9.7 U	8.9 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/Kg	11 U	16 U	9.7 U	8.9 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	11 U	16 U	9.7 U	8.9 U
104-51-8	N-BUTYLBENZENE	ug/Kg	11 U	29	9.7 U	8.9 U
103-65-1	N-PROPYLBENZENE	ug/Kg	11 U	17	9.7 U	8.9 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/Kg	11 U	99	9.7 U	8.9 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	11 U	5 J	9.7 U	8.9 U
100-42-5	STYRENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
98-06-6	T-BUTYLBENZENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	22 U	32 U	19 U	18 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	11 U	16 U	9.7 U	8.9 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/Kg	11 U	16 U	9.7 U	8.9 U
108-88-3	TOLUENE	ug/Kg	11 U	55	9.7 U	8.9 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	11 U	16 U	9.7 U	8.9 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	11 U	16 U	9.7 U	8.9 U
108-05-4	VINYL ACETATE	ug/Kg	11 U	16 U	9.7 U	8.9 U
75-01-4	VINYL CHLORIDE	ug/Kg	11 U	16 U	9.7 U	8.9 U

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561			Dup of JT-SB-13 (22-24)			
		Location ID:	JT-SB-13	JT-SB-14	JT-SB-14	JT-SB-15
		Sample ID:	JT-SB-DUP	JT-SB-14 (12-14)	JT-SB-14 (28-30)	JT-SB-15 (22-24)
		Lab Sample Id:	P1561-13	P1561-14	P1561-15	P1561-16
		Source:	MITKEM	MITKEM	MITKEM	MITKEM
		SDG:	P1561	P1561	P1561	P1561
		Matrix:	SO	SO	SO	SO
		Sampled:	10/29/2015 0:00	10/29/2015 13:50	10/29/2015 14:50	10/29/2015 17:00
		Validated:	12/28/2015	12/28/2015	12/28/2015	12/28/2015
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	940 U	930000 U	850 U	790 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	460 U	460000 U	420 U	390 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	460 U	460000 U	420 U	390 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	460 U	460000 U	420 U	390 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	940 U	930000 U	850 U	790 U
121-14-2	2,4-DINITROTOLUENE	ug/Kg	460 U	460000 U	420 U	390 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	460 U	460000 U	420 U	390 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	460 U	460000 U	420 U	390 U
95-57-8	2-CHLOROPHENOL	ug/Kg	460 U	460000 U	420 U	390 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	460 U	460000 U	120 J	110 J
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	460 U	460000 U	420 U	390 U
88-74-4	2-NITROANILINE	ug/Kg	940 U	930000 U	850 U	790 U
88-75-5	2-NITROPHENOL	ug/Kg	460 U	460000 U	420 U	390 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	460 U	460000 U	420 U	390 U
99-09-2	3-NITROANILINE	ug/Kg	940 U	930000 U	850 U	790 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	940 U	930000 U	850 U	790 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	460 U	460000 U	420 U	390 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	460 U	460000 U	420 U	390 U
106-47-8	4-CHLOROANILINE	ug/Kg	460 U	460000 U	420 U	390 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	460 U	460000 U	420 U	390 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/Kg	460 U	460000 U	420 U	390 U
100-01-6	4-NITROANILINE	ug/Kg	940 U	930000 U	850 U	790 U
100-02-7	4-NITROPHENOL	ug/Kg	940 U	930000 U	850 U	790 U
83-32-9	ACENAPHTHENE	ug/Kg	460 U	190000 J	420	540
208-96-8	ACENAPHTHYLENE	ug/Kg	460 U	160000 J	590	390 U
120-12-7	ANTHRACENE	ug/Kg	460 U	180000 J	1200	770
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	460 U	160000 J	600	790
50-32-8	BENZO(A)PYRENE	ug/Kg	460 U	170000 J	740	670
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	460 U	130000 J	580	830
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	460 U	170000 J	640	350 J
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	460 U	460000 U	250 J	340 J
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	100 J	460000 U	420 U	390 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	460 U	460000 U	420 U	390 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	460 U	460000 U	420 U	390 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	460 U	460000 U	420 U	390 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	460 U	460000 U	420 U	390 U
86-74-8	CARBAZOLE	ug/Kg	460 U	460000 U	420 U	450
218-01-9	CHRYSENE	ug/Kg	460 U	140000 J	700	750
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	460 U	460000 U	420 U	86 J
132-64-9	DIBENZOFURAN	ug/Kg	460 U	460000 U	420 U	340 J
84-66-2	DIETHYL PHTHALATE	ug/Kg	460 U	460000 U	420 U	390 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	460 U	460000 U	420 U	390 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	460 U	460000 U	420 U	390 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	460 U	460000 U	420 U	390 U
206-44-0	FLUORANTHENE	ug/Kg	130 J	480000	2200	2300
86-73-7	FLUORENE	ug/Kg	460 U	140000 J	500	480
118-74-1	HEXACHLOROBENZENE	ug/Kg	460 U	460000 U	420 U	390 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	460 U	460000 U	420 U	390 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	460 U	460000 U	420 U	390 U
67-72-1	HEXACHLOROETHANE	ug/Kg	460 U	460000 U	420 U	390 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	460 U	110000 J	430	480
78-59-1	ISOPHORONE	ug/Kg	460 U	460000 U	420 U	390 U
91-20-3	NAPHTHALENE	ug/Kg	460 U	140000 J	110 J	620
98-95-3	NITROBENZENE	ug/Kg	460 U	460000 U	420 U	390 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	460 U	460000 U	420 U	390 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	460 U	460000 U	420 U	390 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	940 U	930000 U	850 U	790 U
85-01-8	PHENANTHRENE	ug/Kg	94 J	850000	3100	2600
108-95-2	PHENOL	ug/Kg	460 U	460000 U	420 U	390 U
129-00-0	PYRENE	ug/Kg	130 J	910000	3200	1700
	OTHER					
57-12-5	CYANIDE	mg/Kg	0.58 J	2.74 J+	0.519 U	0.552 U
MOIST	MOISTURE, PERCENT	%	29	29	22	15

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561			Dup of JT-SB-13 (22-24)			
		Location ID:	JT-SB-13	JT-SB-14	JT-SB-14	JT-SB-15
		Sample ID:	JT-SB-DUP	JT-SB-14 (12-14)	JT-SB-14 (28-30)	JT-SB-15 (22-24)
		Lab Sample Id:	P1561-13	P1561-14	P1561-15	P1561-16
		Source:	MITKEM	MITKEM	MITKEM	MITKEM
		SDG:	P1561	P1561	P1561	P1561
		Matrix:	SO	SO	SO	SO
		Sampled:	10/29/2015 0:00	10/29/2015 13:50	10/29/2015 14:50	10/29/2015 17:00
		Validated:	12/28/2015	12/28/2015	12/28/2015	12/28/2015
CAS NO.	COMPOUND	UNITS:				
	VOLATILE TICs					
767-59-9	1H-Indene, 1-methyl-	ug/Kg				
2177-47-1	2-Methylindene	ug/Kg		960 JN		
65051-83-4	Benzene, (1-methyl-2-cyclopropen-1-yl)-	ug/Kg		710 JN		
527-53-7	Benzene, 1,2,3,5-tetramethyl-	ug/Kg		430 JN		
526-73-8	Benzene, 1,2,3-trimethyl-	ug/Kg				
95-93-2	Benzene, 1,2,4,5-tetramethyl-	ug/Kg		400 JN		
611-14-3	Benzene, 1-ethyl-2-methyl-	ug/Kg				
934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	ug/Kg				
620-14-4	Benzene, 1-ethyl-3-methyl-	ug/Kg				
6783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	ug/Kg				
15677-15-3	Cycloprop[a]indene, 1,1a,6,6a-tetrahydro	ug/Kg				
124-18-5	Decane	ug/Kg				
496-11-7	Indane	ug/Kg				
95-13-6	Indene	ug/Kg		560 JN		
108-87-2	METHYLCYCLOHEXANE	ug/Kg				
29949-27-7	n-Amylcyclohexane	ug/Kg				
90-12-0	Naphthalene, 1-methyl-	ug/Kg		81000 JN		
581-42-0	Naphthalene, 2,6-dimethyl-	ug/Kg				
111-84-2	Nonane	ug/Kg				
17302-28-2	Nonane, 2,6-dimethyl-	ug/Kg				
111-65-9	Octane	ug/Kg				
15869-94-0	Octane, 3,6-dimethyl-	ug/Kg				
1120-21-4	Undecane	ug/Kg				
17301-23-4	Undecane, 2,6-dimethyl-	ug/Kg				
UNKVOA1	Unknown Volatile Organic With Highest Conc.	ug/Kg		360 J		
UNKVOA2	Unknown Volatile Organic With 2nd Highest Conc.	ug/Kg		320 J		
UNKVOA3	Unknown Volatile Organic With 3rd Highest Conc.	ug/Kg		310 J		
UNKVOA4	Unknown Volatile Organic With 4th Highest Conc.	ug/Kg		310 J		
UNKVOA5	Unknown Volatile Organic With 5th Highest Conc.	ug/Kg				
	SEMIVOLATILE TICs					
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	380 JN			
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg				
55312-69-1	1,1'-Biphenyl, 2,2',3,4,5-Pentachloro-	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (14.72282)	ug/Kg				
192-65-4	1,2:4,5-Dibenzopyrene (15.46295)	ug/Kg			2400 JN	
192-65-4	1,2:4,5-Dibenzopyrene (17.18450)	ug/Kg			3600 JN	
192-65-4	1,2:4,5-Dibenzopyrene (17.57248)	ug/Kg				
95008-11-0	10-Heneicosene (c,t)	ug/Kg				
112-84-5	13-Docosenamide, (Z)-	ug/Kg				
86711-81-1	2- Chloropropionic acid, hexadecyl ester	ug/Kg				
88104-31-8	2- Chloropropionic acid, octadecyl ester	ug/Kg				
111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10	ug/Kg				
189-64-0	3,4:8,9-Dibenzopyrene	ug/Kg				
189-55-9	3,4:9,10-Dibenzopyrene	ug/Kg			5800 JN	
107770-99-0	3,5-Dimethyldodecane	ug/Kg	510 JN			
74685-30-6	5-Eicosene, (E)-	ug/Kg				
1556-99-6	9H-Fluorene, 4-methyl-	ug/Kg				
2523-37-7	9H-Fluorene, 9-methyl-	ug/Kg				
27519-02-4	9-Tricosene, (Z)-	ug/Kg				
613-12-7	Anthracene, 2-methyl-	ug/Kg				
2541-69-7	Benz[a]anthracene, 7-methyl- (14.79322)	ug/Kg				
2541-69-7	Benz[a]anthracene, 7-methyl- (14.83435)	ug/Kg				
239-35-0	Benzo[b]naphtho[2,1-d]thiophene	ug/Kg				
5385-75-1	Dibenz(a,e)aceanthrylene	ug/Kg				
191-26-4	Dibenzo[def,mno]chrysene	ug/Kg				
13475-76-8	Docosane, 11-butyl-	ug/Kg				
2136-70-1	Ethanol, 2-(tetradecyloxy)-	ug/Kg				
33543-31-6	Fluoranthene, 2-methyl-	ug/Kg				
14739-72-1	Heneicosane, 11-pentyl-	ug/Kg				
55124-79-3	Heptadecane, 9-hexyl-	ug/Kg				
90-12-0	Naphthalene, 1-methyl-	ug/Kg				
581-40-8	Naphthalene, 2,3-dimethyl- (8.82355)	ug/Kg				
581-40-8	Naphthalene, 2,3-dimethyl- (8.96457)	ug/Kg				
612-94-2	Naphthalene, 2-phenyl-	ug/Kg				
832-69-9	Phenanthrene, 1-methyl-	ug/Kg				
1576-69-8	Phenanthrene, 2,7-dimethyl-	ug/Kg				
2531-84-2	Phenanthrene, 2-methyl-	ug/Kg				
848-62-4	Pregnan-20-one, (5.alpha.)-	ug/Kg			1900 JN	

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	Dup of JT-SB-13 (22-24) JT-SB-13 JT-SB-DUP P1561-13 MITKEM P1561 SO 10/29/2015 0:00 12/28/2015	JT-SB-14 JT-SB-14 (12-14) P1561-14 MITKEM P1561 SO 10/29/2015 13:50 12/28/2015	JT-SB-14 JT-SB-14 (28-30) P1561-15 MITKEM P1561 SO 10/29/2015 14:50 12/28/2015	JT-SB-15 JT-SB-15 (22-24) P1561-16 MITKEM P1561 SO 10/29/2015 17:00 12/28/2015
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILE TICs					
2381-21-7	Pyrene, 1-methyl-	ug/Kg				
2381-21-7	Pyrene, 1-methyl- (13.37735)	ug/Kg				
2381-21-7	Pyrene, 1-methyl- (13.52423)	ug/Kg				
7225-66-3	Tridecane, 7-hexyl-	ug/Kg				
1705-84-6	Triphenylene, 2-methyl-	ug/Kg				
239-01-0	11H-Benzo[a]carbazole	ug/Kg				
238-84-6	11H-Benzo[a]fluorene	ug/Kg				
243-17-4	11H-Benzo[b]fluorene	ug/Kg				
1599-67-3	1-Docosene	ug/Kg				620 JN
77899-03-7	1-Heneicosyl formate	ug/Kg				
1454-85-9	1-Heptadecanol	ug/Kg				
36653-82-4	1-Hexadecanol	ug/Kg				
18435-45-5	1-Nonadecene	ug/Kg				
3133-01-5	1-Tricosanol	ug/Kg	780 JN			
18835-32-0	1-Tricosene	ug/Kg				
35465-71-5	2-Phenylnaphthalene	ug/Kg				
203-64-5	4H-Cyclopenta[def]phenanthrene	ug/Kg				
82-05-3	7H-Benz[de]anthracen-7-one	ug/Kg				
215-58-7	Benzo[b]triphenylene	ug/Kg				
192-97-2	Benzo[e]pyrene	ug/Kg				
205-82-3	Benzo[j]fluoranthene	ug/Kg				
119-61-9	Benzophenone	ug/Kg				
128-37-0	Butylated Hydroxytoluene	ug/Kg				
191-07-1	Coronene	ug/Kg			3200 JN	
191-07-1	Coronene (15.39852)	ug/Kg				
191-07-1	Coronene (15.62178)	ug/Kg				
191-07-1	Coronene (16.80278)	ug/Kg				
112-95-8	Eicosane	ug/Kg				
629-94-7	Heneicosane	ug/Kg				
593-49-7	Heptacosane	ug/Kg				
629-78-7	Heptadecane	ug/Kg				
57-10-3	HEXADECANOIC ACID	ug/Kg	590 JN			530 JN
630-02-4	Octacosane	ug/Kg				
557-61-9	Octacosanol	ug/Kg				
593-45-3	Octadecane	ug/Kg				
57-11-4	Octadecanoic acid	ug/Kg				
198-55-0	Perylene	ug/Kg				
198-55-0	Perylene (16.11522)	ug/Kg				
198-55-0	Perylene (16.33848)	ug/Kg				
197-61-5	Rubicene-	ug/Kg				
646-31-1	Tetracosane	ug/Kg				
646-31-1	Tetracosane (15.09893)	ug/Kg				
646-31-1	Tetracosane (15.56312)	ug/Kg				
14167-59-0	Tetratriacontane	ug/Kg				
7098-21-7	Tritetracontane	ug/Kg				
UNKSV1	Unknown SemiVolatile Organic With Highest Conc.	ug/Kg			5800 J	470 J
UNKSV2	Unknown SemiVolatile Organic With 2nd Highest Conc.	ug/Kg			4100 J	
UNKSV3	Unknown SemiVolatile Organic With 3rd Highest Conc.	ug/Kg			3200 J	
UNKSV4	Unknown SemiVolatile Organic With 4th Highest Conc.	ug/Kg			3000 J	
UNKSV5	Unknown SemiVolatile Organic With 5th Highest Conc.	ug/Kg			1700 J	
UNKSV6	Unknown SemiVolatile Organic With 6th Highest Conc.	ug/Kg			1600 J	
UNKSV7	Unknown SemiVolatile Organic With 7th Highest Conc.	ug/Kg			1600 J	
UNKSV8	Unknown SemiVolatile Organic With 8th Highest Conc.	ug/Kg			1500 J	
UNKSV9	Unknown SemiVolatile Organic With 9th Highest Conc.	ug/Kg			1400 J	
UNKSV10	Unknown SemiVolatile Organic With 10th Highest Conc.	ug/Kg			1400 J	
UNKSV11	Unknown SemiVolatile Organic With 11th Highest Conc.	ug/Kg			1400 J	
UNKSV12	Unknown SemiVolatile Organic With 12th Highest Conc.	ug/Kg			1300 J	
UNKSV13	Unknown SemiVolatile Organic With 13th Highest Conc.	ug/Kg			1100 J	
UNKSV14	Unknown SemiVolatile Organic With 14th Highest Conc.	ug/Kg			1100 J	
UNKSV15	Unknown SemiVolatile Organic With 15th Highest Conc.	ug/Kg			870 J	

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-15 JT-SB-15 (28-30) P1561-17 MITKEM P1561 SO 10/29/2015 17:20 12/28/2015	FIELDQC EB-110215 P1561-20 MITKEM P1561 SOIL 11/2/2015 10:50 12/28/2015
CAS NO.	COMPOUND	UNITS:		ug/L
	VOLATILES			
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	8.2 U	1 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	8.2 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	8.2 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	8.2 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	8.2 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	8.2 U	1 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	8.2 U	1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	8.2 U	1 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	8.2 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	8.2 U	1 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	8.2 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	8.2 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	8.2 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	8.2 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	8.2 UJ	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	8.2 U	1 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/Kg	8.2 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	8.2 U	1 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	8.2 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	8.2 U	1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	160 UJ	100 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	8.2 UJ	1 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	8.2 U	1 U
591-78-6	2-HEXANONE	ug/Kg	8.2 U	5 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	8.2 U	1 U
67-64-1	ACETONE	ug/Kg	7.7 J	5 UJ
71-43-2	BENZENE	ug/Kg	8.2 U	1 U
108-86-1	BROMOBENZENE	ug/Kg	8.2 U	1 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	8.2 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	8.2 U	1.7
75-25-2	BROMOFORM	ug/Kg	8.2 U	1 U
74-83-9	BROMOMETHANE	ug/Kg	8.2 U	1 UJ
75-15-0	CARBON DISULFIDE	ug/Kg	8.2 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	8.2 U	1 U
108-90-7	CHLOROBENZENE	ug/Kg	8.2 U	1 U
75-00-3	CHLOROETHANE	ug/Kg	8.2 U	1 U
67-66-3	CHLOROFORM	ug/Kg	8.2 U	11
74-87-3	CHLOROMETHANE	ug/Kg	8.2 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	8.2 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	8.2 U	1 U
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	ug/Kg	8.2 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	8.2 U	1 U
74-95-3	DIBROMOMETHANE	ug/Kg	8.2 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	8.2 U	1 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	8.2 U	1 U
100-41-4	ETHYLBENZENE	ug/Kg	8.2 U	1 U
74-88-4	IODOMETHANE (METHYL IODIDE)	ug/Kg	8.2 U	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/Kg	8.2 U	1 U
179601-23-1	M,P-XYLENE	ug/Kg	8.2 U	1 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/Kg	8.2 U	5 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	8.2 U	5 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	8.2 U	1 U
104-51-8	N-BUTYLBENZENE	ug/Kg	8.2 U	1 U
103-65-1	N-PROPYLBENZENE	ug/Kg	8.2 U	1 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/Kg	8.2 U	1 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	8.2 U	1 U
100-42-5	STYRENE	ug/Kg	8.2 U	1 U
98-06-6	T-BUTYLBENZENE	ug/Kg	8.2 U	1 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	16 U	10 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	8.2 U	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/Kg	8.2 U	1 U
108-88-3	TOLUENE	ug/Kg	8.2 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	8.2 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	8.2 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	8.2 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	8.2 U	1 U
108-05-4	VINYL ACETATE	ug/Kg	8.2 U	1 U
75-01-4	VINYL CHLORIDE	ug/Kg	8.2 U	1 U

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-15 JT-SB-15 (28-30) P1561-17 MITKEM P1561 SO 10/29/2015 17:20 12/28/2015	FIELDQC EB-110215 P1561-20 MITKEM P1561 SOIL 11/2/2015 10:50 12/28/2015
CAS NO.	COMPOUND	UNITS:		ug/L
	SEMIVOLATILES			
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	790 U	20 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	390 U	10 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	390 U	10 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	390 U	10 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	790 U	20 U
121-14-2	2,4-DINITROTOLUENE	ug/Kg	390 U	10 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	390 U	10 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	390 U	10 U
95-57-8	2-CHLOROPHENOL	ug/Kg	390 U	10 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	390 U	10 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	390 U	10 U
88-74-4	2-NITROANILINE	ug/Kg	790 U	20 U
88-75-5	2-NITROPHENOL	ug/Kg	390 U	10 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	390 U	10 U
99-09-2	3-NITROANILINE	ug/Kg	790 U	20 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	790 U	20 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	390 U	10 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	390 U	10 U
106-47-8	4-CHLOROANILINE	ug/Kg	390 U	10 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	390 U	10 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/Kg	390 U	10 U
100-01-6	4-NITROANILINE	ug/Kg	790 U	20 U
100-02-7	4-NITROPHENOL	ug/Kg	790 U	20 U
83-32-9	ACENAPHTHENE	ug/Kg	390 U	10 U
208-96-8	ACENAPHTHYLENE	ug/Kg	390 U	10 U
120-12-7	ANTHRACENE	ug/Kg	390 U	10 U
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	390 U	10 U
50-32-8	BENZO(A)PYRENE	ug/Kg	390 U	10 U
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	390 U	10 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	390 U	10 U
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	390 U	10 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	390 U	10 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	390 U	10 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	390 U	10 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	390 U	10 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	390 U	10 U
86-74-8	CARBAZOLE	ug/Kg	390 U	10 U
218-01-9	CHRYSENE	ug/Kg	390 U	10 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	390 U	10 U
132-64-9	DIBENZOFURAN	ug/Kg	390 U	10 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	390 U	10 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	390 U	10 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	390 U	10 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	390 U	10 U
206-44-0	FLUORANTHENE	ug/Kg	390 U	10 U
86-73-7	FLUORENE	ug/Kg	390 U	10 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	390 U	10 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	390 U	10 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	390 U	10 U
67-72-1	HEXACHLOROETHANE	ug/Kg	390 U	10 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	390 U	10 U
78-59-1	ISOPHORONE	ug/Kg	390 U	10 U
91-20-3	NAPHTHALENE	ug/Kg	390 U	10 U
98-95-3	NITROBENZENE	ug/Kg	390 U	10 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	390 U	10 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	390 U	10 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	790 U	20 U
85-01-8	PHENANTHRENE	ug/Kg	390 U	10 U
108-95-2	PHENOL	ug/Kg	390 U	10 U
129-00-0	PYRENE	ug/Kg	390 U	10 U
	OTHER			
57-12-5	CYANIDE	mg/Kg	0.577 U	5 UJ
MOIST	MOISTURE, PERCENT	%	15	

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-15 JT-SB-15 (28-30) P1561-17 MITKEM P1561 SO 10/29/2015 17:20 12/28/2015	FIELDQC EB-110215 P1561-20 MITKEM P1561 SOIL 11/2/2015 10:50 12/28/2015
CAS NO.	COMPOUND	UNITS:		ug/L
	VOLATILE TICs			
767-59-9	1H-Indene, 1-methyl-	ug/Kg		
2177-47-1	2-Methylindene	ug/Kg		
65051-83-4	Benzene, (1-methyl-2-cyclopropen-1-yl)-	ug/Kg		
527-53-7	Benzene, 1,2,3,5-tetramethyl-	ug/Kg		
526-73-8	Benzene, 1,2,3-trimethyl-	ug/Kg		
95-93-2	Benzene, 1,2,4,5-tetramethyl-	ug/Kg		
611-14-3	Benzene, 1-ethyl-2-methyl-	ug/Kg		
934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	ug/Kg		
620-14-4	Benzene, 1-ethyl-3-methyl-	ug/Kg		
6783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	ug/Kg		
15677-15-3	Cycloprop[a]indene, 1,1a,6,6a-tetrahydro	ug/Kg		
124-18-5	Decane	ug/Kg		
496-11-7	Indane	ug/Kg		
95-13-6	Indene	ug/Kg		
108-87-2	METHYLCYCLOHEXANE	ug/Kg		
29949-27-7	n-Amylcyclohexane	ug/Kg		
90-12-0	Naphthalene, 1-methyl-	ug/Kg		
581-42-0	Naphthalene, 2,6-dimethyl-	ug/Kg		
111-84-2	Nonane	ug/Kg		
17302-28-2	Nonane, 2,6-dimethyl-	ug/Kg		
111-65-9	Octane	ug/Kg		
15869-94-0	Octane, 3,6-dimethyl-	ug/Kg		
1120-21-4	Undecane	ug/Kg		
17301-23-4	Undecane, 2,6-dimethyl-	ug/Kg		
UNKVOA1	Unknown Volatile Organic With Highest Conc.	ug/Kg		
UNKVOA2	Unknown Volatile Organic With 2nd Highest Conc.	ug/Kg		
UNKVOA3	Unknown Volatile Organic With 3rd Highest Conc.	ug/Kg		
UNKVOA4	Unknown Volatile Organic With 4th Highest Conc.	ug/Kg		
UNKVOA5	Unknown Volatile Organic With 5th Highest Conc.	ug/Kg		
	SEMIVOLATILE TICs			
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg		
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg		
55312-69-1	1,1'-Biphenyl, 2,2',3,4,5-Pentachloro-	ug/Kg	380 JN	
192-65-4	1,2:4,5-Dibenzopyrene (14.72282)	ug/Kg		
192-65-4	1,2:4,5-Dibenzopyrene (15.46295)	ug/Kg		
192-65-4	1,2:4,5-Dibenzopyrene (17.18450)	ug/Kg		
192-65-4	1,2:4,5-Dibenzopyrene (17.57248)	ug/Kg		
95008-11-0	10-Heneicosene (c,t)	ug/Kg		
112-84-5	13-Docosenamide, (Z)-	ug/Kg		6.5 JN
86711-81-1	2- Chloropropionic acid, hexadecyl ester	ug/Kg		
88104-31-8	2- Chloropropionic acid, octadecyl ester	ug/Kg		
111-02-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10	ug/Kg	450 JN	
189-64-0	3,4:8,9-Dibenzopyrene	ug/Kg		
189-55-9	3,4:9,10-Dibenzopyrene	ug/Kg		
107770-99-0	3,5-Dimethyldodecane	ug/Kg		
74685-30-6	5-Eicosene, (E)-	ug/Kg		
1556-99-6	9H-Fluorene, 4-methyl-	ug/Kg		
2523-37-7	9H-Fluorene, 9-methyl-	ug/Kg		
27519-02-4	9-Tricosene, (Z)-	ug/Kg	420 JN	
613-12-7	Anthracene, 2-methyl-	ug/Kg		
2541-69-7	Benz[a]anthracene, 7-methyl- (14.79322)	ug/Kg		
2541-69-7	Benz[a]anthracene, 7-methyl- (14.83435)	ug/Kg		
239-35-0	Benzo[b]naphtho[2,1-d]thiophene	ug/Kg		
5385-75-1	Dibenz(a,e)aceanthrylene	ug/Kg		
191-26-4	Dibenzo[def,mno]chrysene	ug/Kg		
13475-76-8	Docosane, 11-butyl-	ug/Kg		
2136-70-1	Ethanol, 2-(tetradecyloxy)-	ug/Kg		
33543-31-6	Fluoranthene, 2-methyl-	ug/Kg		
14739-72-1	Heneicosane, 11-pentyl-	ug/Kg		
55124-79-3	Heptadecane, 9-hexyl-	ug/Kg		
90-12-0	Naphthalene, 1-methyl-	ug/Kg		
581-40-8	Naphthalene, 2,3-dimethyl- (8.82355)	ug/Kg		
581-40-8	Naphthalene, 2,3-dimethyl- (8.96457)	ug/Kg		
612-94-2	Naphthalene, 2-phenyl-	ug/Kg		
832-69-9	Phenanthrene, 1-methyl-	ug/Kg		
1576-69-8	Phenanthrene, 2,7-dimethyl-	ug/Kg		
2531-84-2	Phenanthrene, 2-methyl-	ug/Kg		
848-62-4	Pregnan-20-one, (5.alpha.)-	ug/Kg		

NYSDEC-Jamestown Site 2015 Site Investigation Validated Soil Analytical Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-15 JT-SB-15 (28-30) P1561-17 MITKEM P1561 SO 10/29/2015 17:20 12/28/2015	FIELDQC EB-110215 P1561-20 MITKEM P1561 SOIL 11/2/2015 10:50 12/28/2015
CAS NO.	COMPOUND	UNITS:		ug/L
	SEMIVOLATILE TICs			
2381-21-7	Pyrene, 1-methyl-	ug/Kg		
2381-21-7	Pyrene, 1-methyl- (13.37735)	ug/Kg		
2381-21-7	Pyrene, 1-methyl- (13.52423)	ug/Kg		
7225-66-3	Tridecane, 7-hexyl-	ug/Kg		
1705-84-6	Triphenylene, 2-methyl-	ug/Kg		
239-01-0	11H-Benzo[a]carbazole	ug/Kg		
238-84-6	11H-Benzo[a]fluorene	ug/Kg		
243-17-4	11H-Benzo[b]fluorene	ug/Kg		
1599-67-3	1-Docosene	ug/Kg		
77899-03-7	1-Heneicosyl formate	ug/Kg		
1454-85-9	1-Heptadecanol	ug/Kg		
36653-82-4	1-Hexadecanol	ug/Kg		
18435-45-5	1-Nonadecene	ug/Kg		12 JN
3133-01-5	1-Tricosanol	ug/Kg	970 JN	
18835-32-0	1-Tricosene	ug/Kg		
35465-71-5	2-Phenylnaphthalene	ug/Kg		
203-64-5	4H-Cyclopenta[def]phenanthrene	ug/Kg		
82-05-3	7H-Benz[de]anthracen-7-one	ug/Kg		
215-58-7	Benzo[b]triphenylene	ug/Kg		
192-97-2	Benzo[e]pyrene	ug/Kg		
205-82-3	Benzo[j]fluoranthene	ug/Kg		
119-61-9	Benzophenone	ug/Kg		5.4 JN
128-37-0	Butylated Hydroxytoluene	ug/Kg		17 JN
191-07-1	Coronene	ug/Kg		
191-07-1	Coronene (15.39852)	ug/Kg		
191-07-1	Coronene (15.62178)	ug/Kg		
191-07-1	Coronene (16.80278)	ug/Kg		
112-95-8	Eicosane	ug/Kg		
629-94-7	Heneicosane	ug/Kg	530 JN	4.6 JN
593-49-7	Heptacosane	ug/Kg		
629-78-7	Heptadecane	ug/Kg	410 JN	
57-10-3	HEXADECANOIC ACID	ug/Kg	520 JN	13 JN
630-02-4	Octacosane	ug/Kg		
557-61-9	Octacosanol	ug/Kg		
593-45-3	Octadecane	ug/Kg		
57-11-4	Octadecanoic acid	ug/Kg		4.2 JN
198-55-0	Perylene	ug/Kg		
198-55-0	Perylene (16.11522)	ug/Kg		
198-55-0	Perylene (16.33848)	ug/Kg		
197-61-5	Rubicene-	ug/Kg	1000 JN	
646-31-1	Tetracosane	ug/Kg		
646-31-1	Tetracosane (15.09893)	ug/Kg		
646-31-1	Tetracosane (15.56312)	ug/Kg		
14167-59-0	Tetratriacontane	ug/Kg	440 JN	
7098-21-7	Tritetracontane	ug/Kg		
UNKSV1	Unknown SemiVolatile Organic With Highest Conc.	ug/Kg	520 J	4.2 J
UNKSV2	Unknown SemiVolatile Organic With 2nd Highest Conc.	ug/Kg	510 J	
UNKSV3	Unknown SemiVolatile Organic With 3rd Highest Conc.	ug/Kg	460 J	
UNKSV4	Unknown SemiVolatile Organic With 4th Highest Conc.	ug/Kg	390 J	
UNKSV5	Unknown SemiVolatile Organic With 5th Highest Conc.	ug/Kg	370 J	
UNKSV6	Unknown SemiVolatile Organic With 6th Highest Conc.	ug/Kg	360 J	
UNKSV7	Unknown SemiVolatile Organic With 7th Highest Conc.	ug/Kg	360 J	
UNKSV8	Unknown SemiVolatile Organic With 8th Highest Conc.	ug/Kg	350 J	
UNKSV9	Unknown SemiVolatile Organic With 9th Highest Conc.	ug/Kg	350 J	
UNKSV10	Unknown SemiVolatile Organic With 10th Highest Conc.	ug/Kg	340 J	
UNKSV11	Unknown SemiVolatile Organic With 11th Highest Conc.	ug/Kg	340 J	
UNKSV12	Unknown SemiVolatile Organic With 12th Highest Conc.	ug/Kg	330 J	
UNKSV13	Unknown SemiVolatile Organic With 13th Highest Conc.	ug/Kg		
UNKSV14	Unknown SemiVolatile Organic With 14th Highest Conc.	ug/Kg		
UNKSV15	Unknown SemiVolatile Organic With 15th Highest Conc.	ug/Kg		

NYSDEC-Jamestown Site 2015 Site Investigation Liquid Waste Characterization Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-WC-L-110215 JT-WC-L-110215 P1561-23 MITKEM P1561 SOIL 11/2/2015 14:30 12/28/2015
CAS NO.	COMPOUND	UNITS:	
	VOLATILES		
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	1 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	1 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	1 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	1 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	1 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	1 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	5.9
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	1 U
106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/Kg	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	1 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	1 U
108-67-8	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/Kg	2
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	1 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	100 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	1 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	1 U
591-78-6	2-HEXANONE	ug/Kg	5 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	1 U
67-64-1	ACETONE	ug/Kg	18 J
71-43-2	BENZENE	ug/Kg	1 U
108-86-1	BROMOBENZENE	ug/Kg	1 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	1 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	1 U
75-25-2	BROMOFORM	ug/Kg	1 U
74-83-9	BROMOMETHANE	ug/Kg	1 UJ
75-15-0	CARBON DISULFIDE	ug/Kg	1 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	1 U
108-90-7	CHLOROBENZENE	ug/Kg	1 U
75-00-3	CHLOROETHANE	ug/Kg	1 U
67-66-3	CHLOROFORM	ug/Kg	1 U
74-87-3	CHLOROMETHANE	ug/Kg	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	1 U
99-87-6	CYMENE (4-ISOPROPYLTOLUENE)	ug/Kg	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	1 U
74-95-3	DIBROMOMETHANE	ug/Kg	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	1 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	7.5
100-41-4	ETHYLBENZENE	ug/Kg	5.7
74-88-4	IODOMETHANE (METHYL IODIDE)	ug/Kg	1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/Kg	0.53 J
179601-23-1	M,P-XYLENE	ug/Kg	4.6
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/Kg	5 U
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/Kg	5 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	1 U
104-51-8	N-BUTYLBENZENE	ug/Kg	1 U
103-65-1	N-PROPYLBENZENE	ug/Kg	1 U
95-47-6	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/Kg	2.8
135-98-8	SEC-BUTYLBENZENE	ug/Kg	1 U
100-42-5	STYRENE	ug/Kg	1 U
98-06-6	T-BUTYLBENZENE	ug/Kg	1 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	10 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	1 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/Kg	1.4
108-88-3	TOLUENE	ug/Kg	54
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	1 U
108-05-4	VINYL ACETATE	ug/Kg	1 U
75-01-4	VINYL CHLORIDE	ug/Kg	1 U

NYSDEC-Jamestown Site 2015 Site Investigation Liquid Waste Characterization Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-WC-L-110215 JT-WC-L-110215 P1561-23 MITKEM P1561 SOIL 11/2/2015 14:30 12/28/2015
CAS NO.	COMPOUND	UNITS:	
	SEMIVOLATILES		
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	20 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	10 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	10 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	10 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	20 U
121-14-2	2,4-DINITROTOLUENE	ug/Kg	10 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	10 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	10 U
95-57-8	2-CHLOROPHENOL	ug/Kg	10 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	58
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	1.8 J
88-74-4	2-NITROANILINE	ug/Kg	20 U
88-75-5	2-NITROPHENOL	ug/Kg	10 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	10 U
99-09-2	3-NITROANILINE	ug/Kg	20 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	20 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	10 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	10 U
106-47-8	4-CHLOROANILINE	ug/Kg	10 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	10 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/Kg	10 U
100-01-6	4-NITROANILINE	ug/Kg	20 U
100-02-7	4-NITROPHENOL	ug/Kg	20 U
83-32-9	ACENAPHTHENE	ug/Kg	180
208-96-8	ACENAPHTHYLENE	ug/Kg	39
120-12-7	ANTHRACENE	ug/Kg	11
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	2.2 J
50-32-8	BENZO(A)PYRENE	ug/Kg	2.5 J
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	1.9 J
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	3.1 J
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	10 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	10 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	10 U
111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/Kg	10 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	10 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	10 U
86-74-8	CARBAZOLE	ug/Kg	1.9 J
218-01-9	CHRYSENE	ug/Kg	2.1 J
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	10 U
132-64-9	DIBENZOFURAN	ug/Kg	2 J
84-66-2	DIETHYL PHTHALATE	ug/Kg	10 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	10 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	10 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	10 U
206-44-0	FLUORANTHENE	ug/Kg	15
86-73-7	FLUORENE	ug/Kg	35
118-74-1	HEXACHLOROBENZENE	ug/Kg	10 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	10 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	10 U
67-72-1	HEXACHLOROETHANE	ug/Kg	10 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	1.9 J
78-59-1	ISOPHORONE	ug/Kg	10 U
91-20-3	NAPHTHALENE	ug/Kg	550
98-95-3	NITROBENZENE	ug/Kg	10 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	10 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	10 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	20 U
85-01-8	PHENANTHRENE	ug/Kg	71
108-95-2	PHENOL	ug/Kg	10 U
129-00-0	PYRENE	ug/Kg	21

NYSDEC-Jamestown Site 2015 Site Investigation Liquid Waste Characterization Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-WC-L-110215 JT-WC-L-110215 P1561-23 MITKEM P1561 SOIL 11/2/2015 14:30 12/28/2015
CAS NO.	COMPOUND	UNITS:	
	PESTICIDES		
309-00-2	ALDRIN	ug/L	0.05 U
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	ug/L	0.05 U
959-98-8	ALPHA ENDOSULFAN	ug/L	0.05 U
5103-71-9	ALPHA-CHLORDANE	ug/L	0.05 U
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	ug/L	0.029 J
33213-65-9	BETA ENDOSULFAN	ug/L	0.1 U
5103-74-2	BETA-CHLORDANE	ug/L	0.05 U
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	ug/L	0.026 JN
60-57-1	DIELDRIN	ug/L	0.1 U
1031-07-8	ENDOSULFAN SULFATE	ug/L	0.1 U
72-20-8	ENDRIN	ug/L	0.1 U
7421-93-4	ENDRIN ALDEHYDE	ug/L	0.1 U
53494-70-5	ENDRIN KETONE	ug/L	0.1 U
58-89-9	GAMMA BHC (LINDANE)	ug/L	0.05 U
76-44-8	HEPTACHLOR	ug/L	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/L	0.05 U
72-43-5	METHOXYCHLOR	ug/L	0.5 U
72-54-8	P,P'-DDD	ug/L	0.1 U
72-55-9	P,P'-DDE	ug/L	0.1 U
50-29-3	P,P'-DDT	ug/L	0.1 U
8001-35-2	TOXAPHENE	ug/L	5 U
	PCBs		
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/L	1 U
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/L	1 U
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/L	1 U
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/L	1 U
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/L	1 U
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/L	1 U
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/L	1 U
	METALS		
7429-90-5	ALUMINUM	ug/L	103000
7440-36-0	ANTIMONY	ug/L	9.3 U
7440-38-2	ARSENIC	ug/L	104
7440-39-3	BARIUM	ug/L	1100
7440-41-7	BERYLLIUM	ug/L	4.5 J
7440-43-9	CADMIUM	ug/L	3.1 J
7440-70-2	CALCIUM	ug/L	339000
7440-47-3	CHROMIUM, TOTAL	ug/L	162
7440-48-4	COBALT	ug/L	65.4
7440-50-8	COPPER	ug/L	621
7439-89-6	IRON	ug/L	181000
7439-92-1	LEAD	ug/L	773
7439-95-4	MAGNESIUM	ug/L	42700
7439-96-5	MANGANESE	ug/L	4480
7439-97-6	MERCURY	ug/L	3.5
7440-02-0	NICKEL	ug/L	178
7440-09-7	POTASSIUM	ug/L	26000
7782-49-2	SELENIUM	ug/L	12 U
7440-22-4	SILVER	ug/L	6.9 U
7440-23-5	SODIUM	ug/L	75000
7440-28-0	THALLIUM	ug/L	6.2 U
7440-62-2	VANADIUM	ug/L	223
7440-66-6	ZINC	ug/L	1080
	WASTE CHARACTERISTICS		
57-12-5	REACTIVE CYANIDE	mg/L	25 U
IGNITB	IGNITABILITY	deg f	150
PH	PH	ph units	12
18496-25-8	REACTIVE SULFIDE	mg/L	50 U

NYSDEC-Jamestown Site 2015 Site Investigation Liquid Waste Characterization Data SDG: P1561		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-WC-L-110215 JT-WC-L-110215 P1561-23 MITKEM P1561 SOIL 11/2/2015 14:30 12/28/2015
CAS NO.	COMPOUND	UNITS:	
	VOLATILE TICs		
767-59-9	1H-Indene, 1-methyl-	ug/L	5.5 JN
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	ug/L	5.7 JN
15677-15-3	Cycloprop[a]indene, 1,1a,6,6a-tetrahydro	ug/L	11 JN
95-13-6	Indene	ug/L	22 JN
90-12-0	Naphthalene, 1-methyl-	ug/L	30 JN
UNKVOA1	Unknown Volatile Organic With Highest Conc.	ug/L	21 J
	SEMIVOLATILE TICs		
112-84-5	13-Docosenamide, (Z)-	ug/L	10 JN
75172-32-6	2H-1-Benzopyran-7-ol, 3,4-dihydro-3-(4-h	ug/L	14 JN
84-65-1	9,10-Anthracenedione	ug/L	7.2 JN
622-76-4	Benzene, 1-butynyl-	ug/L	27 JN
571-61-9	Naphthalene, 1,5-dimethyl-	ug/L	9 JN
90-12-0	Naphthalene, 1-methyl-	ug/L	100 JN
581-40-8	Naphthalene, 2,3-dimethyl-	ug/L	14 JN
1599-67-3	1-Docosene	ug/L	10 JN
548-39-0	1H-Phenalen-1-one	ug/L	9.2 JN
203-80-5	1H-Phenalene	ug/L	8 JN
203-64-5	4H-Cyclopenta[def]phenanthrene	ug/L	15 JN
92-52-4	BIPHENYL (DIPHENYL)	ug/L	13 JN
132-65-0	Dibenzothiophene	ug/L	9.5 JN
57-10-3	HEXADECANOIC ACID	ug/L	15 JN
95-13-6	Indene	ug/L	62 JN
UNKSV1	Unknown SemiVolatile Organic With Highest Conc.	ug/L	33 J
UNKSV2	Unknown SemiVolatile Organic With 2nd Highest Conc.	ug/L	7.6 J

NYSDEC-Jamestown Site 2015 Site Investigation Solid Waste Characterization Data SDG: P1561		Location ID: Sample ID: Lab Sample Id Source: SDG: Matrix: Sampled: Validated:	JT-WC-S-110215 JT-WC-S-110215 P1561-24 MITKEM P1561 SOIL 11/2/2015 14:40 12/28/2015
CAS NO.	COMPOUND	UNITS:	
	OTHER		
MOIST	MOISTURE, PERCENT	%	20
	TCLP VOLATILES		
75-35-4	1,1-DICHLOROETHENE	ug/L	5 U
107-06-2	1,2-DICHLOROETHANE	ug/L	5 U
71-43-2	BENZENE	ug/L	5 U
56-23-5	CARBON TETRACHLORIDE	ug/L	5 U
108-90-7	CHLOROBENZENE	ug/L	5 U
67-66-3	CHLOROFORM	ug/L	5 U
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/L	5 U
127-18-4	TETRACHLOROETHYLENE(PCE)	ug/L	5 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/L	5 U
75-01-4	VINYL CHLORIDE	ug/L	5 U
	TCLP SEMIVOLATILES		
95-95-4	2,4,5-TRICHLOROPHENOL	ug/L	67 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/L	33 U
121-14-2	2,4-DINITROTOLUENE	ug/L	33 U
106-46-7	1,4-DICHLOROBENZENE	ug/L	33 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/L	33 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/L	33 U
87-68-3	HEXACHLOROBUTADIENE	ug/L	33 U
118-74-1	HEXACHLOROBENZENE	ug/L	33 U
67-72-1	HEXACHLOROETHANE	ug/L	33 U
98-95-3	NITROBENZENE	ug/L	33 U
87-86-5	PENTACHLOROPHENOL	ug/L	67 U
110-86-1	PYRIDINE	ug/L	67 U
	TCLP PESTICIDES		
72-20-8	ENDRIN	ug/L	0.33 U
58-89-9	GAMMA BHC (LINDANE)	ug/L	0.17 U
12789-03-6	GAMMA-CHLORDANE	ug/L	8.3 U
76-44-8	HEPTACHLOR	ug/L	0.17 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/L	0.055 J
72-43-5	METHOXYCHLOR	ug/L	1.7 U
8001-35-2	TOXAPHENE	ug/L	17 U
	TCLP HERBICIDES		
93-72-1	SILVEX (2,4,5-TP)	ug/L	0.43
94-75-7	2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/L	3.3 U
	TCLP METALS		
7440-38-2	ARSENIC	ug/L	4.3 U
7440-39-3	BARIUM	ug/L	543
7440-43-9	CADMIUM	ug/L	0.89 U
7440-47-3	CHROMIUM, TOTAL	ug/L	0.64 U
7439-92-1	LEAD	ug/L	4.2 U
7439-97-6	MERCURY	ug/L	0.028 U
7782-49-2	SELENIUM	ug/L	12 U
7440-22-4	SILVER	ug/L	6.9 U
	WASTE CHARACTERISTICS		
57-12-5	REACTIVE CYANIDE	mg/Kg	23.9 U
IGNITB	IGNITABILITY	deg f	200
PH	PH	ph units	10
18496-25-8	REACTIVE SULFIDE	mg/Kg	47.9 U

DATA USABILITY SUMMARY REPORT

FORMER JAMESTOWN MGP SITE

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APRIL 2014

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LIST OF ATTACHMENTS

SECTION 1

DATA USABILITY SUMMARY

Soil and groundwater samples were collected from the Former Jamestown MGP site in Jamestown, New York from June 25, 2013 through November 25, 2013. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

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

The analytical laboratory for this project was Spectrum Analytical (Spectrum). This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 30 days for the project samples.

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

1.2 SAMPLING AND CHAIN-OF-CUSTODY

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

1.3 LABORATORY ANALYTICAL METHODS

The soil samples that were collected from the site were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), herbicides, metals, hexavalent and trivalent chromium, and cyanide. The groundwater samples that were collected from the site were analyzed for VOCs, SVOCs, pesticides, PCBs, metals, and cyanide. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.4. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical

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

"U" - not detected at the value given,

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

"J" - estimated at the value given,

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

"R" - unusable value.

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

1.3.1 Volatile Organic Analysis

The project samples were analyzed for VOCs using the USEPA SW-846 8260C analytical method. Certain reported results for these samples were qualified as estimated based upon surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, and instrument calibrations. Certain reported results for these samples were considered unusable and qualified "R" based upon poor instrument calibration linearity. The reported VOC analytical results were 98.6% to 99.6% complete (i.e., usable) for the project data. PARCC requirements were met overall.

1.3.2 Semivolatile Organic Analysis

The project samples were analyzed for SVOCs using the USEPA SW-846 8270D analytical method. Certain reported results for these samples were qualified as estimated based upon instrument calibrations. The reported SVOC analytical results were 100% complete (i.e., usable) for the project data. PARCC requirements were met.

1.3.3 Pesticide, PCB, and Herbicide Organic Analysis

The project samples were analyzed for pesticides, PCBs, and herbicides using the USEPA SW-846 8081B/8082A/8151A analytical methods. Certain reported results for these samples were qualified as estimated based upon MS/MSD recoveries and sample identification. The reported analytical results for these samples were considered 100% complete (i.e., usable) for the project data. PARCC requirements were met.

1.3.4 Inorganics Analysis

The project samples were analyzed for metals, hexavalent and trivalent chromium, and cyanide using the USEPA SW-846 6010C/7470A/7471A/7196A/9012B analytical methods. Certain reported results for the inorganics samples were qualified as estimated based upon matrix spike recoveries, serial dilutions, and laboratory duplicate precision. The reported inorganic analytical results were considered 100% complete (i.e., usable) for the project data. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 SOIL

Data review has been completed for data packages generated by Spectrum containing soil samples collected from the site. Analytical results from these samples were contained within sample delivery groups (SDGs) M1061, M1085, and M1160. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A-1.

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

2.1.1 Volatiles

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

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

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

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the high 1,2-dichloroethane-d4 recovery (QC limit 88-110%R) in sample JT-SB-01-5-5.5 (112%R); and the low 1,2-dichloroethane-d4 recovery (QC limit 88-110%R) in samples JT-MW-03-32-32.5 (67%R) and JT-MW-03-32-32.5DUP (80%R). Therefore, positive results for sample JT-SB-01-5-5.5 were considered estimated, possibly biased high, and qualified "J". Results for samples JT-MW-03-32-32.5 and JT-MW-03-32-32.5DUP were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ".

MS/MSD Precision and Accuracy

All precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable and within QC limits with the exception of the high MS/MSD accuracy results for 1,4-dioxane during the spiked analyses of sample JT-SS-03; and the low MS accuracy result and the high MSD accuracy result for 1,4-dioxane during the spiked analyses of sample JT-SB-04-31-31.5. Validation qualification of the parent samples was not required.

LCS Recoveries

All LCS recoveries associated with project samples were considered acceptable and within QC limits with the exception of the high LCS recovery for bromochloromethane (128%R; QC limit 70-125%R) associated with samples in SDG M1061; the high LCS recoveries for 1,4-dioxane (152%R, 169%R; QC limit 70-130%R) associated with all samples in SDG M1085 except JT-SS-02 and JT-SS-04; the low LCS recovery for 2-chlorotoluene (65%R; QC limit 70-130%R) associated with samples JT-MW-02-14-14.5 and JT-MW-02-24-24.5; and the low LCS recovery for 1,4-dioxane (57%R; QC limit 70-130%R) associated with samples in SDG M1160 except JT-SB-05-22-22.5, JT-MW-03-12-12.5, JT-MW-05-10-10.5, JT-MW-05-23-23.5, JT-MW-02-14-14.5 and JT-MW-02-24-24.5. Positive results for those compounds where LCS recoveries exceeded QC limits were considered estimated, possibly biased high, and qualified "J" for the affected samples. Sample results for those compounds where LCS recoveries fell below QC limits were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum mean relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of acetone (RRF=0.029), 2-butanone (RRF=0.038), 1,4-dioxane (28.3%RSD), and tert butyl alcohol (21.5%RSD) in the initial calibration associated with samples in SDG M1061; acetone (RRF=0.048) and 2-butanone (RRF=0.035) in the initial calibration associated with sample JT-SB-02-32-32.5; dichlorodifluoromethane (21.8%RSD), iodomethane (24.5%RSD), and bromoform (20.6%RSD) in the initial calibration associated with samples JT-SB-03-21-21.5, JT-SB-02-16-16.5, and JT-SB-04-10-10.5; 1,4-dioxane (21%RSD) in the initial calibration associated with samples in SDG M1085 except JT-SB-02-32-32.5, JT-SB-03-21-21.5, JT-SB-02-16-16.5, and JT-SB-04-10-10.5; tetrachloroethene (31.2%RSD) and 1,2-dibromo-3-

chloropropane (34.8%RSD) in the initial calibration associated with samples JT-SB-05-22-22.5, JT-MW-03-12-12.5, JT-MW-05-10-10.5, JT-MW-05-23-23.5, and JT-MW-05-23-23.5DUP; acetone (29.2%RSD) and tert-butyl alcohol (25.3%RSD) in the initial calibration associated with samples JT-MW-02-14-14.5 and JT-MW-02-24-24.5; tetrachloroethene (43%RSD), tert-butyl alcohol (28.3%RSD), and 1,4-dioxane (74.7%RSD) in the initial calibration associated with all samples in SDG M1160 except JT-SB-05-22-22.5, JT-MW-03-12-12.5, JT-MW-05-10-10.5, JT-MW-05-23-23.5, JT-MW-02-14-14.5 and JT-MW-02-24-24.5. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. However, nondetected results for those compounds where the RRF was outside criteria were considered unusable and qualified "R" for the affected samples.

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) within ±20% with the exception of acetone (RRF=0.033), iodomethane (-24.3%D), 2-butanone (RRF=0.032), tetrachloroethene (20.2%D), 1,2-dibromo-3-chloropropane (-20.9%D), and 1,4-dioxane (-38.3%D) in the continuing calibration associated with samples in SDG M1061; 2-butanone (RRF=0.037) and 1,4-dioxane (21.5%D) in the continuing calibration associated with sample JT-SB-02-32-32.5; dichlorodifluoromethane (-21.4%D) and 1,4-dioxane (-34.7%D) in the continuing calibration associated with samples JT-SS-02 and JT-SS-04; tetrachloroethene (-23.4%D) in the continuing calibration associated with samples JT-SB-05-22-22.5, JT-MW-03-12-12.5, JT-MW-05-10-10.5, JT-MW-05-23-23.5, and JT-MW-05-23-23.5DUP; tetrachloroethene (23.7%D) in the continuing calibration associated with samples JT-MW-03-32-32.5 and JT-MW-03-32-32.5DUP. Therefore, the sample results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. However, nondetected results for those compounds where the RRF was outside criteria were considered unusable and qualified "R" for the affected samples.

Usability

All volatile soil sample results were considered usable following data validation with the exception of certain nondetected results based upon poor calibration linearity.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile soil data presented by Spectrum were 99.6% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-1.

2.1.2 Semivolatiles

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

- Custody documentation
- Holding times
- Surrogate recoveries

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

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

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum mean RRF of 0.05 and a maximum %RSD of 20% with the exception of 2,4-dinitrophenol (22.4%RSD) in the initial calibration associated with samples in SDGs M1061, M1085, and M1160. The sample results for this compound were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum %D within ±20% with the exception of pyrene (21.3%D) in the continuing calibration associated with samples in SDG M1061; and 2,4-dinitrophenol (22.6%D) in the continuing calibration associated with samples in SDG M1160. The sample results for this compound were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Internal Standard Responses

All internal standard (IS) responses and retention times were within specified QC ranges based on associated calibration standards (i.e., sample's area count within -50% to +100% and retention times within ±0.5 minutes of the standard) with the exception of the high IS response for chrysene-d12 in sample JT-SB-04-10-10.5. This sample was diluted and reanalyzed yielding compliant IS responses. Since diluted sample results were reported for this sample, validation qualification was not required.

Usability

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

Summary

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

2.1.3 Pesticides, PCBs, and Herbicides

The following items were reviewed for compliancy in the pesticide, PCB, and herbicide analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination
- Initial calibrations
- Verification calibrations
- 4,4'-DDT/endrin breakdown
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

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

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC acceptance limits with the exception of the decachlorobiphenyl recoveries in pesticide samples (QC limit 55-130%R) JT-SS-02 (383%R), JT-SS-04 (190%R), JT-SB-03-21-21.5 (133%R), JT-SS-03 (41%R), JT-SS-05 (43%R), JT-SS-050 (43%R), JT-SB-05-22-22.5 (51%R), JT-MW-04-6-6.5 (54%R), and JT-MW-01-8-8.5 (55%R) and in PCB samples (QC limit 60-125%R) JT-SB-2-16-16.5 (149%R); and the tetrachloro-meta-xylene recovery in pesticide sample (QC limit 14-113%R) JT-MW-05-10-10.5 (136%R). Validation qualification was not required for these samples.

MS/MSD Precision and Accuracy

All MS/MSD precision and accuracy measurements were considered acceptable, within QC limits for designated spiked project samples, and did not require sample qualification with the exception of the low MS/MSD accuracy results for heptachlor epoxide, dieldrin, endosulfan sulfate, alpha-chlordane, gamma-chlordane, beta-BHC, and 4,4'-DDE during the spiked analyses of pesticide sample JT-SS-03. Therefore, the results for these compounds were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the parent sample.

Sample Result Identification

All positive pesticide and PCB sample results were within retention time windows and verified present using secondary column confirmation. The percent difference (%D) between the pesticide and PCB results on the quantitation and confirmation columns were less than 25% with the exception of beta-BHC in sample JT-SB-01-11-11.5 (132.9%D); heptachlor in sample JT-SB-01-11-11.5 (92.8%D); 4,4-DDE in samples JT-SB-01-11-11.5 (114.9%D) and JT-MW-05-10-10.5 (267.6%D); 4,4'-DDT in sample JT-MW-05-10-10.5 (469.9%D); alpha-chlordane in samples JT-SB-02-16-16.5 (330.1%D), JT-SS-02 (43.3%D), and JT-MW-05-10-10.5 (151%D); endosulfan sulfate in samples JT-SB-04-10-10.5 (999.9%D), JT-SS-04 (146.6%D), and JT-MW-05-10-10.5 (32.1%D); endrin ketone in sample JT-SS-04 (87%D)and JT-MW-05-10-10.5 (94.7%D); endrin aldehyde in sample JT-MW-05-10-10.5 (351.7%D); methoxychlor in samples JT-SS-04 (303%D) and JT-MW-05-10-10.5 (44.9%D); gamma-chlordane in samples JT-SB-04-10-10.5 (999.7%D) and JT-MW-05-10-10.5 (495.9%D); alpha-BHC in sample JT-MW-05-10-10.5 (76.2%D); gamma-BHC in sample JT-MW-05-10-10.5 (148%D); and aldrin in sample JT-MW-05-10-10.5 (120.1%D). The results for these compounds were considered estimated and qualified "J" for the affected samples. However, results for those compounds where the %D exceeded 90% were considered estimated, tentatively identified, and qualified "JN" for the affected samples.

Usability

All pesticide, PCB, and herbicide results for the soil samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The pesticide, PCB, and herbicide soil data presented by Spectrum were 100% complete with all data considered usable and valid. The validated data are tabulated and presented in Attachment A-1.

2.1.4 Inorganics

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

- Custody documentation
- Holding times

- Initial and continuing calibration verifications
- Initial and continuing calibration blank, and laboratory preparation blank contamination
- Inductively coupled plasma (ICP) interference check sample (ICS)
- Matrix spike (MS) recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample (LCS) recoveries
- ICP serial dilutions
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of matrix spike recoveries, ICP serial dilutions, and laboratory duplicate precision as discussed below.

Matrix Spike Recoveries

All the MS recoveries for designated spiked project samples were within the 75-125%R QC limit with sample concentrations less than four times the spiking concentration with the exception of the low MS recovery for antimony (64%R) and the high MS recovery for copper (360%R) associated with samples in SDG M1085. Therefore, results for those analytes where MS recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. Positive results for those analytes where MS recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J" for the affected samples.

ICP Serial Dilution

QC serial dilution results were compliant for all analytes with the exception of the serial dilution results for arsenic (11%D) associated with samples in SDG M1085. Therefore, positive results for these analytes were considered estimated and qualified "J" for the affected samples.

Laboratory Duplicate Precision

All laboratory duplicate precision results were considered acceptable with the exception of the laboratory duplicate precision for lead (46.6%RPD) associated with samples in SDG M1085. Results for these analytes were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Usability

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

Summary

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

2.2 GROUNDWATER SAMPLES

Data review has been completed for data packages generated by Spectrum containing analytical results from groundwater samples collected from the site. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical results from these samples were contained within SDGs M1261 and M2333. The validated laboratory data are presented in Attachment A-2.

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

2.2.1 Volatiles

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

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

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

MS/MSD Precision and Accuracy

All of the MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable and within QC limits with the exception of the low MS/MSD accuracy results for iodomethane and 2,2'-dichloropropane during the spiked analyses of sample JT-MW-02-112513. Therefore, the results for these compounds were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected parent sample.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the low LCS recoveries for iodomethane (71%R, 69%R; QC limit 72-121%R) associated with samples in SDG M2333. Therefore, iodomethane results considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum mean RRF of 0.05 and a maximum %RSD of 20% with the exception of acetone (28%RSD, RRF=0.044), 2-butanone (RRF=0.038), bromoform (22.6%RSD), iodomethane (22.9%RSD), 1,2,4-trichlorobenzene (29.8%RSD), 1,2,3-trichlorobenzene (23.7%RSD), and naphthalene (23.1%RSD) in the initial calibration associated with samples in SDG M2333. Therefore, the sample results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. However, nondetected results associated with those compounds where the RRF was less than 0.05 were considered unusable and qualified "R" for the affected samples.

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum %D within ±20% with the exception of acetone (24.3%D), 2-butanone (RRF=0.039), dichlorodifluoromethane (49.5%D), and iodomethane (-23.8%D) in the continuing calibration associated with samples in SDG M2333 except JT-MW-05-112513; dichlorodifluoromethane (42.9%D), bromomethane (-20.8%D), iodomethane (-21.7%D), acetone (22.5%D), 2-butanone (RRF=0.039), 1,2-dibromo-3-chloropropane (-20.9%D), and tert-butyl alcohol (-24.9%D) in the continuing calibration associated with sample JT-MW-05-112513. Therefore, the sample results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. However, nondetected results associated with those compounds where the RRF was less than 0.05 were considered unusable and qualified "R" for the affected samples.

Usability

All groundwater and surface water volatile sample results were considered usable following data validation with the exception of certain nondetected results based upon poor calibration linearity.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile groundwater data presented by Spectrum were 98.6% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-2.

2.2.2 Semivolatiles

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

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

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

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the low 2-fluorophenol recovery (QC limit 20-110) in samples JT-MW-02-072513 (19%R), JT-MW-04-112513 (17%R), JT-MW-03-112513 (16%R), JT-MW-030-112513 (18%R), and JT-MW-01-112513 (20%R). Validation qualification of these samples was not required since only one acid surrogate was outside QC limits.

MS/MSD Precision and Accuracy

All of the MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements for designated spiked project samples were considered acceptable and within QC limits with the exception of the high MSD accuracy result for pentachlorophenol associated with the spiked analyses of sample JT-MW-03-072413. Validation qualification of the parent sample was not required.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum mean RRF of 0.05 and a maximum %RSD of 20% with the exception of 2,4-dinitrophenol (22.4%RSD, 31.7%RSD) in the initial calibrations associated with all samples. The sample results for this compound were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum RRF of 0.05 and a maximum %D within ±20% with the exception of hexachlorocyclopentadiene (-24.7%D), pentachlorophenol (-34.9%D), 2,4-dinitrophenol (-35.2%D), benzo(g,h,i)perylene (-20.5%D), and 4,6-dinitro-2-methylphenol (-32.6%D) in the continuing calibration associated with samples in SDG M2333. The sample results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Usability

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

Summary

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

2.2.3 Pesticides and PCBs

The following items were reviewed for compliancy in the pesticide and PCB analysis:

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

- Initial calibrations
- Verification calibrations
- 4,4'-DDT/endrin breakdown
- Chromatogram quality
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries and sample result identifications as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable on both the primary and secondary columns with the exception of the low tetrachloro-m-xylene recovery (QC limit 34-137%R) in PCB sample JT-MW-05-072513 (47%R); the low decachlorobiphenyl recovery (QC limit 40-135%R) in PCB samples JT-MW-030-112513 (35%R) and JT-MW-01-112513 (31%R); and the low decachlorobiphenyl recovery (QC limit 30-135%R) in pesticide samples JT-MW-02-112513 (29%R), JT-MW-030-112513 (27%R), and JT-MW-01-112513 (28%R). Validation qualification of these samples was not required.

Sample Result Identifications

All positive pesticide and PCB sample results were within retention time windows and verified present using secondary column confirmation. The percent difference (%D) between the pesticide and PCB results on the quantitation and confirmation columns were less than 25% with the exception of alpha-BHC in sample JT-MW-05-072513. The result for this compound was considered estimated and qualified "J" for the affected sample.

Usability

All pesticide and PCB results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The pesticide and PCB groundwater data presented by Spectrum were 100% complete with all data considered usable and valid. The validated data are tabulated and presented in Attachment A-2.

2.2.4 Inorganics

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

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration, and laboratory preparation blank contamination
- Interference check sample (ICS)
- Matrix spike (MS) recoveries
- Laboratory duplicate precision
- LCS recoveries
- ICP serial dilution
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

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

Serial Dilutions

QC serial dilution results were compliant for all analytes with the exception of the serial dilution results for potassium (16%D) associated with samples in SDG M2333. Therefore, positive results for potassium were considered estimated and qualified "J" for the affected samples.

Usability

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

Summary

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

ATTACHMENT A

VALIDATED LABORATORY DATA

ATTACHMENT A-1

VALIDATED LABORATORY DATA FOR SOIL SAMPLES

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Surface Soil Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SS-01 JT-SS-01_070213 M1085-06 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-02 JT-SS-02_070213 M1085-03 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-03 JT-SS-03_070313 M1085-10 MITKEM M1085 SOIL 7/3/2013 9/3/2013	JT-SS-04 JT-SS-04_070213 M1085-08 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-05 JT-SS-05_070313 M1085-11 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	92 UJ	110 UJ	86 UJ	120 UJ	94 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
591-78-6	2-HEXANONE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
67-64-1	ACETONE	ug/Kg	4.6 U	6.6	4.3 U	6.4	4.7 U
71-43-2	BENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
108-86-1	BROMOBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-25-2	BROMOFORM	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
74-83-9	BROMOMETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-15-0	CARBON DISULFIDE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
108-90-7	CHLOROBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-00-3	CHLOROETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
67-66-3	CHLOROFORM	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
74-87-3	CHLOROMETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
99-87-6	CYMENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
74-95-3	DIBROMOMETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	4.6 U	5.4 UJ	4.3 U	6 UJ	4.7 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
100-41-4	ETHYLBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
74-88-4	IODOMETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
179601-23-1	m,p-Xylene	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
78-93-3	METHYL ETHYL KETONE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
104-51-8	N-BUTYLBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
103-65-1	N-PROPYLBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
95-47-6	O-XYLENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
100-42-5	STYRENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
98-06-6	T-BUTYLBENZENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	9.2 U	11 U	8.6 U	12 U	9.4 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
127-18-4	TETRACHLOROETHYLENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
108-88-3	TOLUENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
108-05-4	VINYL ACETATE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U
75-01-4	VINYL CHLORIDE	ug/Kg	4.6 U	5.4 U	4.3 U	6 U	4.7 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Surface Soil Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SS-01 JT-SS-01_070213 M1085-06 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-02 JT-SS-02_070213 M1085-03 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-03 JT-SS-03_070313 M1085-10 MITKEM M1085 SOIL 7/3/2013 9/3/2013	JT-SS-04 JT-SS-04_070213 M1085-08 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-05 JT-SS-05_070313 M1085-11 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	1500 U	720 U	720 U	770 U	670 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	720 U	350 U	350 U	380 U	330 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	720 U	350 U	350 U	380 U	330 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	720 U	350 U	350 U	380 U	330 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	1500 UJ	720 UJ	720 UJ	770 UJ	670 UJ
121-14-2	2,4-DINITROTOLUENE	ug/Kg	720 U	350 U	350 U	380 U	330 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	720 U	350 U	350 U	380 U	330 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	720 U	350 U	350 U	380 U	330 U
95-57-8	2-CHLOROPHENOL	ug/Kg	720 U	350 U	350 U	380 U	330 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	720 U	76 J	350 U	110 J	330 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	720 U	350 U	350 U	380 U	330 U
88-74-4	2-NITROANILINE	ug/Kg	1500 U	720 U	720 U	770 U	670 U
88-75-5	2-NITROPHENOL	ug/Kg	720 U	350 U	350 U	380 U	330 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	720 U	350 U	350 U	380 U	330 U
99-09-2	3-NITROANILINE	ug/Kg	1500 U	720 U	720 U	770 U	670 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	1500 U	720 U	720 U	770 U	670 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	720 U	350 U	350 U	380 U	330 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	720 U	350 U	350 U	380 U	330 U
106-47-8	4-CHLOROANILINE	ug/Kg	720 U	350 U	350 U	380 U	330 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	720 U	350 U	350 U	380 U	330 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/Kg	720 U	350 U	350 U	380 U	330 U
100-01-6	4-NITROANILINE	ug/Kg	1500 U	720 U	720 U	770 U	670 U
100-02-7	4-NITROPHENOL	ug/Kg	1500 U	720 U	720 U	770 U	670 U
83-32-9	ACENAPHTHENE	ug/Kg	720 U	350 U	350 U	210 J	330 U
208-96-8	ACENAPHTHYLENE	ug/Kg	720 U	72 J	350 U	420	330 U
120-12-7	ANTHRACENE	ug/Kg	720 U	210 J	350 U	760	330 U
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	380 J	770	310 J	2800	110 J
50-32-8	BENZO(A)PYRENE	ug/Kg	330 J	710	300 J	2700	120 J
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	320 J	940	410	3500	140 J
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	460 J	490	260 J	1800	330 U
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	350 J	350 U	350 U	380 U	330 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	720 U	350 U	350 U	380 U	330 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	720 U	350 U	350 U	380 U	330 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	720 U	350 U	350 U	380 U	330 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	720 U	350 U	350 U	380 U	330 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	720 U	210 J	350 U	160 J	330 U
86-74-8	CARBAZOLE	ug/Kg	720 U	95 J	350 U	200 J	330 U
218-01-9	CHRYSENE	ug/Kg	400 J	960	350 J	3200	120 J
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	720 U	130 J	350 U	430	330 U
132-64-9	DIBENZOFURAN	ug/Kg	720 U	86 J	350 U	110 J	330 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	720 U	350 U	350 U	380 U	330 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	720 U	350 U	350 U	380 U	330 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	720 U	350 U	350 U	84 J	330 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	720 U	350 U	350 U	380 U	330 U
206-44-0	FLUORANTHENE	ug/Kg	660 J	1400	460	4600	180 J
86-73-7	FLUORENE	ug/Kg	720 U	100 J	350 U	250 J	330 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	720 U	350 U	350 U	380 U	330 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	720 U	350 U	350 U	380 U	330 U
67-72-1	HEXACHLOROETHANE	ug/Kg	720 U	350 U	350 U	380 U	330 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	720 U	350 U	350 U	380 U	330 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	290 J	530	240 J	2000	99 J
78-59-1	ISOPHORONE	ug/Kg	720 U	350 U	350 U	380 U	330 U
91-20-3	NAPHTHALENE	ug/Kg	720 U	160 J	350 U	290 J	330 U
98-95-3	NITROBENZENE	ug/Kg	720 U	350 U	350 U	380 U	330 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	720 U	350 U	350 U	380 U	330 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	720 U	350 U	350 U	380 U	330 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	1500 U	720 U	720 U	770 U	670 U
85-01-8	PHENANTHRENE	ug/Kg	410 J	1200	250 J	3000	140 J
108-95-2	PHENOL	ug/Kg	720 U	350 U	350 U	380 U	330 U
129-00-0	PYRENE	ug/Kg	610 J	1600	540	5400	220 J

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Surface Soil Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SS-01 JT-SS-01_070213 M1085-06 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-02 JT-SS-02_070213 M1085-03 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-03 JT-SS-03_070313 M1085-10 MITKEM M1085 SOIL 7/3/2013 9/3/2013	JT-SS-04 JT-SS-04_070213 M1085-08 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SS-05 JT-SS-05_070313 M1085-11 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:					
	PESTICIDES						
309-00-2	ALDRIN	ug/Kg	1.9 U	1.8 U	1.9 U	2 U	1.8 U
319-84-6	ALPHA BHC	ug/Kg	1.9 U	1.8 U	1.9 U	2 U	1.8 U
959-98-8	ALPHA ENDOSULFAN	ug/Kg	1.9 U	1.8 U	1.9 U	2 U	1.8 U
5103-71-9	ALPHA-CHLORDANE	ug/Kg	1.9 U	4.2 J	2 J	2 U	1.8 U
319-85-7	BETA BHC	ug/Kg	1.9 U	1.8 U	1.9 UJ	2 U	1.8 U
33213-65-9	BETA ENDOSULFAN	ug/Kg	3.6 U	3.5 U	3.6 U	4 U	3.4 U
5103-74-2	BETA-CHLORDANE	ug/Kg	1.9 U	1.8 U	1.9 UJ	2 U	1.8 U
319-86-8	DELTA BHC	ug/Kg	1.9 U	1.8 U	1.9 U	2 U	1.8 U
60-57-1	DIELDRIN	ug/Kg	3.6 U	3.5 U	3.6 UJ	4 U	3.4 U
1031-07-8	ENDOSULFAN SULFATE	ug/Kg	3.6 U	3.5 U	3.6 UJ	29 JN	3.4 U
72-20-8	ENDRIN	ug/Kg	3.6 U	3.5 U	3.6 U	4 U	3.4 U
7421-93-4	ENDRIN ALDEHYDE	ug/Kg	3.6 U	3.5 U	2.1 J	4 U	3.4 U
53494-70-5	ENDRIN KETONE	ug/Kg	3.6 U	3.5 U	3.6 U	10 J	3.4 U
58-89-9	GAMMA BHC (LINDANE)	ug/Kg	1.9 U	1.8 U	1.9 U	2 U	1.8 U
76-44-8	HEPTACHLOR	ug/Kg	1.9 U	1.8 U	1.9 U	2 U	1.8 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/Kg	1.9 U	1.8 U	1.9 UJ	2 U	1.8 U
72-43-5	METHOXYCHLOR	ug/Kg	19 U	18 U	19 U	29 JN	18 U
72-54-8	P,P'-DDD	ug/Kg	3.6 U	3.5 U	3.6 U	4 U	3.4 U
72-55-9	P,P'-DDE	ug/Kg	3.6 U	3.5 U	3.6 UJ	4 U	3.4 U
50-29-3	P,P'-DDT	ug/Kg	3.6 U	3.5 U	3.6 U	4 U	3.4 U
8001-35-2	TOXAPHENE	ug/Kg	190 U	180 U	190 U	200 U	180 U
	PCBs						
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/Kg	36 U	35 U	36 U	40 U	34 U
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/Kg	36 U	35 U	36 U	40 U	34 U
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/Kg	36 U	35 U	36 U	40 U	34 U
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/Kg	36 U	35 U	36 U	40 U	34 U
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/Kg	36 U	35 U	36 U	40 U	34 U
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/Kg	36 U	35 U	36 U	40 U	34 U
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/Kg	36 U	35 U	36 U	40 U	34 U
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/Kg	36 U	35 U	36 U	40 U	34 U
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/Kg	36 U	35 U	36 U	40 U	34 U
	HERBICIDES						
93-72-1	SILVEX (2,4,5-TP)	ug/kg	7.1 U	7.23 U	7.04 U	7.92 U	7.35 U
	INORGANICS						
7429-90-5	ALUMINUM	mg/Kg	6500	3710	6730	8300	6610
7440-36-0	ANTIMONY	mg/Kg	1 UJ	0.4 J	0.62 J	0.53 J	1 UJ
7440-38-2	ARSENIC	mg/Kg	6.5 J	20 J	9.3 J	17.1 J	9.9 J
7440-39-3	BARIUM	mg/Kg	64.4	34.8	104	160	69.5
7440-41-7	BERYLLIUM	mg/Kg	0.24 J	0.27	0.28	0.49	0.28
7440-43-9	CADMIUM	mg/Kg	0.048 J	0.16 J	0.042 J	0.5	0.043 J
7440-70-2	CALCIUM	mg/Kg	53400	89700	30500	13100	20400
16065-83-1	CHROMIUM III	mg/Kg	10	6.3	10	15	8.8
18540-29-9	CHROMIUM, HEXAVALENT	mg/Kg	4.3 U	4.3 U	4.4 U	4.9 U	4.2 U
7440-47-3	CHROMIUM, TOTAL	mg/Kg	10.3	6.3	10.2	15.1	8.8
7440-48-4	COBALT	mg/Kg	5	3.6	5.4	8.2	5.5
7440-50-8	COPPER	mg/Kg	62.9 J	105 J	39.6 J	110 J	25.5 J
7439-89-6	IRON	mg/Kg	14600	26600	15800	20800	16000
7439-92-1	LEAD	mg/Kg	38.9 J	104 J	80.7 J	246 J	22.5 J
7439-95-4	MAGNESIUM	mg/Kg	6080	36100	4190	3900	4050
7439-96-5	MANGANESE	mg/Kg	615	302	554	560	793
7439-97-6	MERCURY	mg/Kg	0.051	0.057	0.05	1.4	0.028 J
7440-02-0	NICKEL	mg/Kg	15.9	11.6	15.6	22.3	13.9
7440-09-7	POTASSIUM	mg/Kg	782	847	725	973	706
7782-49-2	SELENIUM	mg/Kg	1.5 U	1 U	0.57 J	1.4 J	0.95 J
7440-22-4	SILVER	mg/Kg	0.14 J	0.42 J	0.28 J	0.59 J	0.18 J
7440-23-5	SODIUM	mg/Kg	182	258	208	103	160
7440-28-0	THALLIUM	mg/Kg	0.86 J	2.3	0.42 J	0.98 U	1 U
7440-62-2	VANADIUM	mg/Kg	13.2	6.9	13.4	14.9	11.2
7440-66-6	ZINC	mg/Kg	80.9	76	82.8	260	70.1
57-12-5	CYANIDE	mg/Kg	0.94 U	0.98 U	1.1 U	1 U	0.96 U
	OTHER						
MOIST	MOISTURE, PERCENT	%	9.8 J	6.8 J	9.5 J	16	6.3 J

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Surface Soil Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SS-05 JT-SS-050_070313 M1085-12 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:	
	VOLATILES		
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	5.1 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	5.1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	5.1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	5.1 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	5.1 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	5.1 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	5.1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	5.1 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	5.1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	5.1 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	5.1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	5.1 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	5.1 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	5.1 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	5.1 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	5.1 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/Kg	5.1 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	5.1 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	5.1 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	5.1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	100 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	5.1 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	5.1 U
591-78-6	2-HEXANONE	ug/Kg	5.1 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	5.1 U
67-64-1	ACETONE	ug/Kg	5.1 U
71-43-2	BENZENE	ug/Kg	5.1 U
108-86-1	BROMOBENZENE	ug/Kg	5.1 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	5.1 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	5.1 U
75-25-2	BROMOFORM	ug/Kg	5.1 U
74-83-9	BROMOMETHANE	ug/Kg	5.1 U
75-15-0	CARBON DISULFIDE	ug/Kg	5.1 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	5.1 U
108-90-7	CHLOROBENZENE	ug/Kg	5.1 U
75-00-3	CHLOROETHANE	ug/Kg	5.1 U
67-66-3	CHLOROFORM	ug/Kg	5.1 U
74-87-3	CHLOROMETHANE	ug/Kg	5.1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	5.1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	5.1 U
99-87-6	CYMENE	ug/Kg	5.1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	5.1 U
74-95-3	DIBROMOMETHANE	ug/Kg	5.1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	5.1 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	5.1 U
100-41-4	ETHYLBENZENE	ug/Kg	5.1 U
74-88-4	IODOMETHANE	ug/Kg	5.1 U
98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/Kg	5.1 U
179601-23-1	m,p-Xylene	ug/Kg	5.1 U
78-93-3	METHYL ETHYL KETONE	ug/Kg	5.1 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	5.1 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	5.1 U
104-51-8	N-BUTYLBENZENE	ug/Kg	5.1 U
103-65-1	N-PROPYLBENZENE	ug/Kg	5.1 U
95-47-6	O-XYLENE	ug/Kg	5.1 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	5.1 U
100-42-5	STYRENE	ug/Kg	5.1 U
98-06-6	T-BUTYLBENZENE	ug/Kg	5.1 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	10 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	5.1 U
127-18-4	TETRACHLOROETHYLENE	ug/Kg	5.1 U
108-88-3	TOLUENE	ug/Kg	5.1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	5.1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	5.1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	5.1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	5.1 U
108-05-4	VINYL ACETATE	ug/Kg	5.1 U
75-01-4	VINYL CHLORIDE	ug/Kg	5.1 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Surface Soil Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SS-05 JT-SS-050_070313 M1085-12 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:	
	SEMIVOLATILES		
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	740 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	360 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	360 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	360 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	740 UJ
121-14-2	2,4-DINITROTOLUENE	ug/Kg	360 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	360 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	360 U
95-57-8	2-CHLOROPHENOL	ug/Kg	360 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	360 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	360 U
88-74-4	2-NITROANILINE	ug/Kg	740 U
88-75-5	2-NITROPHENOL	ug/Kg	360 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	360 U
99-09-2	3-NITROANILINE	ug/Kg	740 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	740 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	360 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	360 U
106-47-8	4-CHLOROANILINE	ug/Kg	360 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	360 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/Kg	360 U
100-01-6	4-NITROANILINE	ug/Kg	740 U
100-02-7	4-NITROPHENOL	ug/Kg	740 U
83-32-9	ACENAPHTHENE	ug/Kg	360 U
208-96-8	ACENAPHTHYLENE	ug/Kg	360 U
120-12-7	ANTHRACENE	ug/Kg	360 U
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	87 J
50-32-8	BENZO(A)PYRENE	ug/Kg	100 J
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	130 J
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	130 J
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	360 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	360 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	360 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	360 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	360 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	490
86-74-8	CARBAZOLE	ug/Kg	360 U
218-01-9	CHRYSENE	ug/Kg	110 J
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	360 U
132-64-9	DIBENZOFURAN	ug/Kg	360 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	360 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	360 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	110 J
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	360 U
206-44-0	FLUORANTHENE	ug/Kg	130 J
86-73-7	FLUORENE	ug/Kg	360 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	360 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	360 U
67-72-1	HEXACHLOROETHANE	ug/Kg	360 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	360 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	100 J
78-59-1	ISOPHORONE	ug/Kg	360 U
91-20-3	NAPHTHALENE	ug/Kg	360 U
98-95-3	NITROBENZENE	ug/Kg	360 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	360 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	360 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	740 U
85-01-8	PHENANTHRENE	ug/Kg	76 J
108-95-2	PHENOL	ug/Kg	360 U
129-00-0	PYRENE	ug/Kg	120 J

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Surface Soil Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SS-05 JT-SS-050_070313 M1085-12 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:	
	PESTICIDES		
309-00-2	ALDRIN	ug/Kg	1.9 U
319-84-6	ALPHA BHC	ug/Kg	1.9 U
959-98-8	ALPHA ENDOSULFAN	ug/Kg	1.9 U
5103-71-9	ALPHA-CHLORDANE	ug/Kg	1.9 U
319-85-7	BETA BHC	ug/Kg	1.9 U
33213-65-9	BETA ENDOSULFAN	ug/Kg	3.6 U
5103-74-2	BETA-CHLORDANE	ug/Kg	1.9 U
319-86-8	DELTA BHC	ug/Kg	1.9 U
60-57-1	DIELDRIN	ug/Kg	3.6 U
1031-07-8	ENDOSULFAN SULFATE	ug/Kg	3.6 U
72-20-8	ENDRIN	ug/Kg	3.6 U
7421-93-4	ENDRIN ALDEHYDE	ug/Kg	3.6 U
53494-70-5	ENDRIN KETONE	ug/Kg	3.6 U
58-89-9	GAMMA BHC (LINDANE)	ug/Kg	1.9 U
76-44-8	HEPTACHLOR	ug/Kg	1.9 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/Kg	1.9 U
72-43-5	METHOXYCHLOR	ug/Kg	19 U
72-54-8	P,P'-DDD	ug/Kg	3.6 U
72-55-9	P,P'-DDE	ug/Kg	3.6 U
50-29-3	P,P'-DDT	ug/Kg	3.6 U
8001-35-2	TOXAPHENE	ug/Kg	190 U
	PCBs		
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/Kg	36 U
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/Kg	36 U
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/Kg	36 U
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/Kg	36 U
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/Kg	36 U
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/Kg	36 U
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/Kg	36 U
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/Kg	36 U
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/Kg	36 U
	HERBICIDES		
93-72-1	SILVEX (2,4,5-TP)	ug/kg	7.14 U
	INORGANICS		
7429-90-5	ALUMINUM	mg/Kg	5350
7440-36-0	ANTIMONY	mg/Kg	1.2 J
7440-38-2	ARSENIC	mg/Kg	6 J
7440-39-3	BARIUM	mg/Kg	38.3
7440-41-7	BERYLLIUM	mg/Kg	0.21
7440-43-9	CADMIUM	mg/Kg	0.11 J
7440-70-2	CALCIUM	mg/Kg	26900
16065-83-1	CHROMIUM III	mg/Kg	6.7
18540-29-9	CHROMIUM, HEXAVALENT	mg/Kg	4.6 U
7440-47-3	CHROMIUM, TOTAL	mg/Kg	6.7
7440-48-4	COBALT	mg/Kg	4.1
7440-50-8	COPPER	mg/Kg	23.8 J
7439-89-6	IRON	mg/Kg	11700
7439-92-1	LEAD	mg/Kg	13 J
7439-95-4	MAGNESIUM	mg/Kg	3130
7439-96-5	MANGANESE	mg/Kg	366
7439-97-6	MERCURY	mg/Kg	0.035 J
7440-02-0	NICKEL	mg/Kg	11
7440-09-7	POTASSIUM	mg/Kg	561
7782-49-2	SELENIUM	mg/Kg	0.55 J
7440-22-4	SILVER	mg/Kg	0.071 J
7440-23-5	SODIUM	mg/Kg	170
7440-28-0	THALLIUM	mg/Kg	0.25 J
7440-62-2	VANADIUM	mg/Kg	9.6
7440-66-6	ZINC	mg/Kg	56.5
57-12-5	CYANIDE	mg/Kg	0.91 U
	OTHER		
MOIST	MOISTURE, PERCENT	%	9.6 J

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-01 JT-MW-01_13.0-13.5 M1160-06 MITKEM M1160 SOIL 7/9/2013 9/3/2013	JT-MW-01 JT-MW-01_8.0-8.5 M1160-05 MITKEM M1160 SOIL 7/9/2013 9/3/2013	JT-MW-02 JT-MW-02_14.0-14.5 M1160-07 MITKEM M1160 SOIL 7/10/2013 9/3/2013	JT-MW-02 JT-MW-02_24.0-24.5 M1160-08 MITKEM M1160 SOIL 7/10/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	4.3 U	16	5.9 U	6.6 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/Kg	4.3 U	8.4	5.9 U	6.6 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	87 UJ	81 UJ	120 U	130 U
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	4.3 U	4.1 U	5.9 UJ	6.6 UJ
591-78-6	2-HEXANONE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
67-64-1	ACETONE	ug/Kg	12	17	5.9 UJ	6.6 UJ
71-43-2	BENZENE	ug/Kg	4.4	8.8	5.9 U	6.6 U
108-86-1	BROMOBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-25-2	BROMOFORM	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
74-83-9	BROMOMETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-15-0	CARBON DISULFIDE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
108-90-7	CHLOROBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-00-3	CHLOROETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
67-66-3	CHLOROFORM	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
74-87-3	CHLOROMETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	2.7 J	4.1 U	5.9 U	6.6 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
99-87-6	CYMENE	ug/Kg	4.3 U	1.3 J	5.9 U	6.6 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
74-95-3	DIBROMOMETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	4.3 U	11	5.9 U	6.6 U
100-41-4	ETHYLBENZENE	ug/Kg	1.8 J	9.5	5.9 U	6.6 U
74-88-4	IODOMETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
98-82-8	ISOPROPYLBENZENE	ug/Kg	4.3 U	1.4 J	5.9 U	6.6 U
179601-23-1	m,p-Xylene	ug/Kg	4.3 U	8.2	5.9 U	6.6 U
78-93-3	METHYL ETHYL KETONE	ug/Kg	4.3 U	3.1 J	5.9 U	6.6 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	12	7.6	5.9 U	6.6 U
104-51-8	N-BUTYLBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
103-65-1	N-PROPYLBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
95-47-6	O-XYLENE	ug/Kg	4.3 U	3.1 J	5.9 U	6.6 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
100-42-5	STYRENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
98-06-6	T-BUTYLBENZENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	8.7 UJ	8.1 UJ	12 UJ	13 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
127-18-4	TETRACHLOROETHYLENE	ug/Kg	0.97 J	4.1 UJ	5.9 U	6.6 UJ
108-88-3	TOLUENE	ug/Kg	4.3 U	1.2 J	5.9 U	6.6 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	1.1 J	4.1 U	5.9 U	6.6 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
108-05-4	VINYL ACETATE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U
75-01-4	VINYL CHLORIDE	ug/Kg	4.3 U	4.1 U	5.9 U	6.6 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-01 JT-MW-01_13.0-13.5 M1160-06 MITKEM M1160 SOIL 7/9/2013 9/3/2013	JT-MW-01 JT-MW-01_8.0-8.5 M1160-05 MITKEM M1160 SOIL 7/9/2013 9/3/2013	JT-MW-02 JT-MW-02_14.0-14.5 M1160-07 MITKEM M1160 SOIL 7/10/2013 9/3/2013	JT-MW-02 JT-MW-02_24.0-24.5 M1160-08 MITKEM M1160 SOIL 7/10/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	830 U	890 U	790 U	880 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	410 U	440 U	390 U	430 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	410 U	440 U	390 U	430 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	410 U	440 U	390 U	430 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	830 UJ	890 UJ	790 UJ	880 UJ
121-14-2	2,4-DINITROTOLUENE	ug/Kg	410 U	440 U	390 U	430 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	410 U	440 U	390 U	430 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	410 U	440 U	390 U	430 U
95-57-8	2-CHLOROPHENOL	ug/Kg	410 U	440 U	390 U	430 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	410 U	440 U	390 U	430 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	410 U	440 U	390 U	430 U
88-74-4	2-NITROANILINE	ug/Kg	830 U	890 U	790 U	880 U
88-75-5	2-NITROPHENOL	ug/Kg	410 U	440 U	390 U	430 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	410 U	440 U	390 U	430 U
99-09-2	3-NITROANILINE	ug/Kg	830 U	890 U	790 U	880 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	830 U	890 U	790 U	880 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	410 U	440 U	390 U	430 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	410 U	440 U	390 U	430 U
106-47-8	4-CHLOROANILINE	ug/Kg	410 U	440 U	390 U	430 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	410 U	440 U	390 U	430 U
106-44-5	4-METHYLPHENOL	ug/Kg	410 U	440 U	390 U	430 U
100-01-6	4-NITROANILINE	ug/Kg	830 U	890 U	790 U	880 U
100-02-7	4-NITROPHENOL	ug/Kg	830 U	890 U	790 U	880 U
83-32-9	ACENAPHTHENE	ug/Kg	410 U	440 U	390 U	430 U
208-96-8	ACENAPHTHYLENE	ug/Kg	410 U	440 U	390 U	430 U
120-12-7	ANTHRACENE	ug/Kg	410 U	440 U	81 J	430 U
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	140 J	440 U	210 J	430 U
50-32-8	BENZO(A)PYRENE	ug/Kg	410 U	440 U	150 J	430 U
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	110 J	440 U	220 J	430 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	410 U	440 U	390 U	430 U
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	410 U	440 U	96 J	430 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	410 U	440 U	390 U	430 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	410 U	440 U	390 U	430 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	410 U	440 U	390 U	430 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	410 U	440 U	390 U	430 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	410 U	440 U	84 J	430 U
86-74-8	CARBAZOLE	ug/Kg	410 U	440 U	390 U	430 U
218-01-9	CHRYSENE	ug/Kg	120 J	440 U	230 J	430 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	410 U	440 U	390 U	430 U
132-64-9	DIBENZOFURAN	ug/Kg	410 U	440 U	390 U	430 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	410 U	440 U	390 U	430 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	410 U	440 U	390 U	430 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	410 U	440 U	390 U	430 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	410 U	440 U	390 U	430 U
206-44-0	FLUORANTHENE	ug/Kg	170 J	440 U	390	430 U
86-73-7	FLUORENE	ug/Kg	410 U	440 U	390 U	430 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	410 U	440 U	390 U	430 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	410 U	440 U	390 U	430 U
67-72-1	HEXACHLOROETHANE	ug/Kg	410 U	440 U	390 U	430 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	410 U	440 U	390 U	430 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	410 U	440 U	390 U	430 U
78-59-1	ISOPHORONE	ug/Kg	410 U	440 U	390 U	430 U
91-20-3	NAPHTHALENE	ug/Kg	300 J	2300	390 U	430 U
98-95-3	NITROBENZENE	ug/Kg	410 U	440 U	390 U	430 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	410 U	440 U	390 U	430 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	410 U	440 U	390 U	430 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	830 U	890 U	790 U	880 U
85-01-8	PHENANTHRENE	ug/Kg	120 J	440 U	290 J	430 U
108-95-2	PHENOL	ug/Kg	410 U	440 U	390 U	430 U
129-00-0	PYRENE	ug/Kg	180 J	440 U	390 J	430 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-01 JT-MW-01_13.0-13.5 M1160-06 MITKEM M1160 SOIL 7/9/2013 9/3/2013	JT-MW-01 JT-MW-01_8.0-8.5 M1160-05 MITKEM M1160 SOIL 7/9/2013 9/3/2013	JT-MW-02 JT-MW-02_14.0-14.5 M1160-07 MITKEM M1160 SOIL 7/10/2013 9/3/2013	JT-MW-02 JT-MW-02_24.0-24.5 M1160-08 MITKEM M1160 SOIL 7/10/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/Kg		2.3 U	2.1 U	
319-84-6	ALPHA BHC	ug/Kg		2.3 U	2.1 U	
959-98-8	ALPHA ENDOSULFAN	ug/Kg		2.3 U	2.1 U	
5103-71-9	ALPHA-CHLORDANE	ug/Kg		2.3 U	2.1 U	
319-85-7	BETA BHC	ug/Kg		2.3 U	2.1 U	
33213-65-9	BETA ENDOSULFAN	ug/Kg		4.5 U	4 U	
5103-74-2	BETA-CHLORDANE	ug/Kg		2.3 U	2.1 U	
319-86-8	DELTA BHC	ug/Kg		2.3 U	2.1 U	
60-57-1	DIELDRIN	ug/Kg		4.5 U	4 U	
1031-07-8	ENDOSULFAN SULFATE	ug/Kg		4.5 U	4 U	
72-20-8	ENDRIN	ug/Kg		4.5 U	4 U	
7421-93-4	ENDRIN ALDEHYDE	ug/Kg		4.5 U	4 U	
53494-70-5	ENDRIN KETONE	ug/Kg		4.5 U	4 U	
58-89-9	GAMMA BHC (LINDANE)	ug/Kg		2.3 U	2.1 U	
76-44-8	HEPTACHLOR	ug/Kg		2.3 U	2.1 U	
1024-57-3	HEPTACHLOR EPOXIDE	ug/Kg		2.3 U	2.1 U	
72-43-5	METHOXYCHLOR	ug/Kg		23 U	21 U	
72-54-8	P,P'-DDD	ug/Kg		4.5 U	4 U	
72-55-9	P,P'-DDE	ug/Kg		4.5 U	4 U	
50-29-3	P,P'-DDT	ug/Kg		4.5 U	4 U	
8001-35-2	TOXAPHENE	ug/Kg		230 U	210 U	
	PCBs					
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/Kg		45 U	40 U	
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/Kg		45 U	40 U	
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/Kg		45 U	40 U	
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/Kg		45 U	40 U	
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/Kg		45 U	40 U	
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/Kg		45 U	40 U	
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/Kg		45 U	40 U	
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/Kg		45 U	40 U	
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/Kg		45 U	40 U	
	HERBICIDES					
93-72-1	SILVEX (2,4,5-TP)	ug/kg		9.25 U	7.66 U	
	INORGANICS					
7429-90-5	ALUMINUM	mg/Kg		17400	13900	
7440-36-0	ANTIMONY	mg/Kg		1.1 U	0.49 J	
7440-38-2	ARSENIC	mg/Kg		9.8	24.7	
7440-39-3	BARIUM	mg/Kg		123	199	
7440-41-7	BERYLLIUM	mg/Kg		0.51	0.98	
7440-43-9	CADMIUM	mg/Kg		0.23 J	0.25 J	
7440-70-2	CALCIUM	mg/Kg		2600	28200	
16065-83-1	CHROMIUM III	mg/Kg		16	16	
18540-29-9	CHROMIUM, HEXAVALENT	mg/Kg		5.5 U	4.7 U	
7440-47-3	CHROMIUM, TOTAL	mg/Kg		16.1	15.9	
7440-48-4	COBALT	mg/Kg		10.2	8	
7440-50-8	COPPER	mg/Kg		18.6	48.4	
7439-89-6	IRON	mg/Kg		23200	21500	
7439-92-1	LEAD	mg/Kg		29.8	44.8	
7439-95-4	MAGNESIUM	mg/Kg		2800	4630	
7439-96-5	MANGANESE	mg/Kg		469	1430	
7439-97-6	MERCURY	mg/Kg		0.087	0.14	
7440-02-0	NICKEL	mg/Kg		16.1	19	
7440-09-7	POTASSIUM	mg/Kg		926	1030	
7782-49-2	SELENIUM	mg/Kg		1.6 U	1.7 U	
7440-22-4	SILVER	mg/Kg		1.6 U	1.7 U	
7440-23-5	SODIUM	mg/Kg		311	370	
7440-28-0	THALLIUM	mg/Kg		1.1 U	1.2 U	
7440-62-2	VANADIUM	mg/Kg		27.4	19.8	
7440-66-6	ZINC	mg/Kg		78.5	73.4	
57-12-5	CYANIDE	mg/Kg	1.2 U	1.3 U	1.1 U	1.3 U
	OTHER					
MOIST	MOISTURE, PERCENT	%	21	27	17	24

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-03 JT-MW-03_12.0-12.5 M1160-09 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-03 JT-MW-03_32.0-32.5 M1160-10 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-03 JT-MW-03_32.0-32.5DUP M1160-11 MITKEM M1160 SOIL 7/11/2013 12:30 4/1/2014	JT-MW-04 JT-MW-04_22.0-22.5 M1160-04 MITKEM M1160 SOIL 7/9/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	93 J	4.7 UJ	3.6 UJ	4 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	230 UJ	4.7 UJ	3.6 UJ	4 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	4700 U	93 UJ	72 UJ	80 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	230 U	4.7 U	3.6 UJ	4 U
591-78-6	2-HEXANONE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
67-64-1	ACETONE	ug/Kg	230 U	4.7 UJ	2.2 J	4 U
71-43-2	BENZENE	ug/Kg	810	4.3 J	2.3 J	4 U
108-86-1	BROMOBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-25-2	BROMOFORM	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
74-83-9	BROMOMETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-15-0	CARBON DISULFIDE	ug/Kg	230 U	8.1 J	6.6 J	4 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
108-90-7	CHLOROBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-00-3	CHLOROETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
67-66-3	CHLOROFORM	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
74-87-3	CHLOROMETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
99-87-6	CYMENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
74-95-3	DIBROMOMETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	230	1.9 J	3.6 UJ	4 U
100-41-4	ETHYLBENZENE	ug/Kg	95 J	2.5 J	3.6 UJ	4 U
74-88-4	IODOMETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
98-82-8	ISOPROPYLBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
179601-23-1	m,p-Xylene	ug/Kg	250	1.9 J	3.6 UJ	4 U
78-93-3	METHYL ETHYL KETONE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	230 U	4.7 UJ	3.6 UJ	3.6 J
104-51-8	N-BUTYLBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
103-65-1	N-PROPYLBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
95-47-6	O-XYLENE	ug/Kg	66 J	4.7 UJ	3.6 UJ	4 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
100-42-5	STYRENE	ug/Kg	72 J	4.7 UJ	3.6 UJ	4 U
98-06-6	T-BUTYLBENZENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	470 U	9.3 UJ	7.2 UJ	8 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
127-18-4	TETRACHLOROETHYLENE	ug/Kg	230 UJ	4.7 UJ	3.6 UJ	2.1 J
108-88-3	TOLUENE	ug/Kg	290	4.7 UJ	3.6 UJ	4 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
108-05-4	VINYL ACETATE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U
75-01-4	VINYL CHLORIDE	ug/Kg	230 U	4.7 UJ	3.6 UJ	4 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-03 JT-MW-03_12.0-12.5 M1160-09 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-03 JT-MW-03_32.0-32.5 M1160-10 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-03 JT-MW-03_32.0-32.5DUP M1160-11 MITKEM M1160 SOIL 7/11/2013 12:30 4/1/2014	JT-MW-04 JT-MW-04_22.0-22.5 M1160-04 MITKEM M1160 SOIL 7/9/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	760 U	790 U	800 U	810 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	370 U	390 U	390 U	400 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	370 U	390 U	390 U	400 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	370 U	390 U	390 U	400 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	760 UJ	790 UJ	800 UJ	810 UJ
121-14-2	2,4-DINITROTOLUENE	ug/Kg	370 U	390 U	390 U	400 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	370 U	390 U	390 U	400 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	370 U	390 U	390 U	400 U
95-57-8	2-CHLOROPHENOL	ug/Kg	370 U	390 U	390 U	400 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	370 U	390 U	390 U	400 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	370 U	390 U	390 U	400 U
88-74-4	2-NITROANILINE	ug/Kg	760 U	790 U	800 U	810 U
88-75-5	2-NITROPHENOL	ug/Kg	370 U	390 U	390 U	400 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	370 U	390 U	390 U	400 U
99-09-2	3-NITROANILINE	ug/Kg	760 U	790 U	800 U	810 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	760 U	790 U	800 U	810 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	370 U	390 U	390 U	400 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	370 U	390 U	390 U	400 U
106-47-8	4-CHLOROANILINE	ug/Kg	370 U	390 U	390 U	400 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	370 U	390 U	390 U	400 U
106-44-5	4-METHYLPHENOL	ug/Kg	370 U	390 U	390 U	400 U
100-01-6	4-NITROANILINE	ug/Kg	760 U	790 U	800 U	810 U
100-02-7	4-NITROPHENOL	ug/Kg	760 U	790 U	800 U	810 U
83-32-9	ACENAPHTHENE	ug/Kg	1300	390 U	390 U	400 U
208-96-8	ACENAPHTHYLENE	ug/Kg	370 U	390 U	390 U	400 U
120-12-7	ANTHRACENE	ug/Kg	250 J	390 U	390 U	400 U
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	230 J	390 U	390 U	400 U
50-32-8	BENZO(A)PYRENE	ug/Kg	420	390 U	390 U	400 U
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	340 J	390 U	390 U	400 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	690	390 U	390 U	400 U
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	140 J	390 U	390 U	400 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	370 U	390 U	390 U	400 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	370 U	390 U	390 U	400 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	370 U	390 U	390 U	400 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	370 U	390 U	390 U	400 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	370 U	390 U	390 U	400 U
86-74-8	CARBAZOLE	ug/Kg	370 U	390 U	390 U	400 U
218-01-9	CHRYSENE	ug/Kg	240 J	390 U	390 U	400 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	370 U	390 U	390 U	400 U
132-64-9	DIBENZOFURAN	ug/Kg	370 U	390 U	390 U	400 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	370 U	390 U	390 U	400 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	370 U	390 U	390 U	400 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	370 U	390 U	390 U	400 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	370 U	390 U	390 U	400 U
206-44-0	FLUORANTHENE	ug/Kg	790	390 U	390 U	150 J
86-73-7	FLUORENE	ug/Kg	250 J	390 U	390 U	400 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	370 U	390 U	390 U	400 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	370 U	390 U	390 U	400 U
67-72-1	HEXACHLOROETHANE	ug/Kg	370 U	390 U	390 U	400 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	370 U	390 U	390 U	400 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	330 J	390 U	390 U	400 U
78-59-1	ISOPHORONE	ug/Kg	370 U	390 U	390 U	400 U
91-20-3	NAPHTHALENE	ug/Kg	490	390 U	390 U	400 U
98-95-3	NITROBENZENE	ug/Kg	370 U	390 U	390 U	400 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	370 U	390 U	390 U	400 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	370 U	390 U	390 U	400 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	760 U	790 U	800 U	810 U
85-01-8	PHENANTHRENE	ug/Kg	1500	390 U	390 U	150 J
108-95-2	PHENOL	ug/Kg	370 U	390 U	390 U	400 U
129-00-0	PYRENE	ug/Kg	1900	390 U	390 U	140 J

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-03 JT-MW-03_12.0-12.5 M1160-09 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-03 JT-MW-03_32.0-32.5 M1160-10 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-03 JT-MW-03_32.0-32.5DUP M1160-11 MITKEM M1160 SOIL 7/11/2013 12:30 4/1/2014	JT-MW-04 JT-MW-04_22.0-22.5 M1160-04 MITKEM M1160 SOIL 7/9/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/Kg	1.9 U			
319-84-6	ALPHA BHC	ug/Kg	1.9 U			
959-98-8	ALPHA ENDOSULFAN	ug/Kg	1.9 U			
5103-71-9	ALPHA-CHLORDANE	ug/Kg	1.9 U			
319-85-7	BETA BHC	ug/Kg	1.9 U			
33213-65-9	BETA ENDOSULFAN	ug/Kg	3.7 U			
5103-74-2	BETA-CHLORDANE	ug/Kg	1.9 U			
319-86-8	DELTA BHC	ug/Kg	1.9 U			
60-57-1	DIELDRIN	ug/Kg	3.7 U			
1031-07-8	ENDOSULFAN SULFATE	ug/Kg	3.7 U			
72-20-8	ENDRIN	ug/Kg	3.7 U			
7421-93-4	ENDRIN ALDEHYDE	ug/Kg	3.7 U			
53494-70-5	ENDRIN KETONE	ug/Kg	3.7 U			
58-89-9	GAMMA BHC (LINDANE)	ug/Kg	1.9 U			
76-44-8	HEPTACHLOR	ug/Kg	1.9 U			
1024-57-3	HEPTACHLOR EPOXIDE	ug/Kg	1.9 U			
72-43-5	METHOXYCHLOR	ug/Kg	19 U			
72-54-8	P,P'-DDD	ug/Kg	3.7 U			
72-55-9	P,P'-DDE	ug/Kg	3.7 U			
50-29-3	P,P'-DDT	ug/Kg	3.7 U			
8001-35-2	TOXAPHENE	ug/Kg	190 U			
	PCBs					
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/Kg	37 U			
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/Kg	37 U			
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/Kg	37 U			
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/Kg	37 U			
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/Kg	37 U			
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/Kg	37 U			
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/Kg	37 U			
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/Kg	37 U			
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/Kg	37 U			
	HERBICIDES					
93-72-1	SILVEX (2,4,5-TP)	ug/kg	8.33 U			
	INORGANICS					
7429-90-5	ALUMINUM	mg/Kg	10300			
7440-36-0	ANTIMONY	mg/Kg	0.78 U			
7440-38-2	ARSENIC	mg/Kg	8.2			
7440-39-3	BARIUM	mg/Kg	118			
7440-41-7	BERYLLIUM	mg/Kg	0.4			
7440-43-9	CADMIUM	mg/Kg	0.26			
7440-70-2	CALCIUM	mg/Kg	21200			
16065-83-1	CHROMIUM III	mg/Kg	12			
18540-29-9	CHROMIUM, HEXAVALENT	mg/Kg	4.4 U			
7440-47-3	CHROMIUM, TOTAL	mg/Kg	12			
7440-48-4	COBALT	mg/Kg	7.6			
7440-50-8	COPPER	mg/Kg	27.7			
7439-89-6	IRON	mg/Kg	18700			
7439-92-1	LEAD	mg/Kg	107			
7439-95-4	MAGNESIUM	mg/Kg	7240			
7439-96-5	MANGANESE	mg/Kg	337			
7439-97-6	MERCURY	mg/Kg	0.87			
7440-02-0	NICKEL	mg/Kg	15.7			
7440-09-7	POTASSIUM	mg/Kg	901			
7782-49-2	SELENIUM	mg/Kg	1.2 U			
7440-22-4	SILVER	mg/Kg	1.2 U			
7440-23-5	SODIUM	mg/Kg	216			
7440-28-0	THALLIUM	mg/Kg	0.78 U			
7440-62-2	VANADIUM	mg/Kg	15.8			
7440-66-6	ZINC	mg/Kg	84.3			
57-12-5	CYANIDE	mg/Kg	1.1 U	1.1 U	1.2 U	1.2 U
	OTHER					
MOIST	MOISTURE, PERCENT	%	13	18	20	20

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-04 JT-MW-04_6.0-6.5 M1160-03 MITKEM M1160 SOIL 7/8/2013 9/3/2013	JT-MW-05 JT-MW-05_10.0-10.5 M1160-12 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-05 JT-MW-05_23.0-23.5 M1160-14 MITKEM M1160 SOIL 7/12/2013 9/3/2013	JT-MW-05 JT-MW-05_23.0-23.5DUP M1160-13 MITKEM M1160 SOIL 7/12/2013 7:45 4/1/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	4.4 U	11000 U	250 U	940 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	4.4 U	11000 U	250 U	940 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	4.4 U	11000 U	250 U	940 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	4.4 U	6600 J	140 J	650 J
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	4.4 U	11000 UJ	250 UJ	940 UJ
106-93-4	1,2-DIBROMOETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	4.4 U	11000 U	250 U	940 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/Kg	4.4 U	2700 J	62 J	300 J
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	4.4 U	11000 U	250 U	940 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	88 UJ	210000 U	5000 U	19000 U
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	4.4 U	11000 U	250 U	940 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	4.4 U	11000 U	250 U	940 U
591-78-6	2-HEXANONE	ug/Kg	4.4 U	11000 U	250 U	940 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	4.4 U	11000 U	250 U	940 U
67-64-1	ACETONE	ug/Kg	3.6 J	11000 U	250 U	940 U
71-43-2	BENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
108-86-1	BROMOBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-25-2	BROMOFORM	ug/Kg	4.4 U	11000 U	250 U	940 U
74-83-9	BROMOMETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-15-0	CARBON DISULFIDE	ug/Kg	4.4 U	11000 U	250 U	940 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	4.4 U	11000 U	250 U	940 U
108-90-7	CHLOROBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-00-3	CHLOROETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
67-66-3	CHLOROFORM	ug/Kg	4.4 U	11000 U	250 U	940 U
74-87-3	CHLOROMETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	4.4 U	11000 U	250 U	940 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	4.4 U	11000 U	250 U	940 U
99-87-6	CYMENE	ug/Kg	4.4 U	11000 U	250 U	940 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
74-95-3	DIBROMOMETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	4.4 U	2700 J	36 J	140 J
100-41-4	ETHYLBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
74-88-4	IODOMETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
98-82-8	ISOPROPYLBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
179601-23-1	m,p-Xylene	ug/Kg	4.4 U	3700 J	60 J	210 J
78-93-3	METHYL ETHYL KETONE	ug/Kg	4.4 U	11000 U	250 U	940 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	4.4 U	11000 U	250 U	940 U
104-51-8	N-BUTYLBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
103-65-1	N-PROPYLBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
95-47-6	O-XYLENE	ug/Kg	4.4 U	11000 U	250 U	940 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
100-42-5	STYRENE	ug/Kg	4.4 U	11000 U	250 U	940 U
98-06-6	T-BUTYLBENZENE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	8.8 UJ	21000 U	500 U	1900 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	4.4 U	11000 U	250 U	940 U
127-18-4	TETRACHLOROETHYLENE	ug/Kg	5.6 J	11000 UJ	250 UJ	940 UJ
108-88-3	TOLUENE	ug/Kg	4.4 U	11000 U	250 U	940 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	4.4 U	11000 U	250 U	940 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	4.4 U	11000 U	250 U	940 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	1.1 J	11000 U	250 U	940 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	4.4 U	11000 U	250 U	940 U
108-05-4	VINYL ACETATE	ug/Kg	4.4 U	11000 U	250 U	940 U
75-01-4	VINYL CHLORIDE	ug/Kg	4.4 U	11000 U	250 U	940 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-04 JT-MW-04_6.0-6.5 M1160-03 MITKEM M1160 SOIL 7/8/2013 9/3/2013	JT-MW-05 JT-MW-05_10.0-10.5 M1160-12 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-05 JT-MW-05_23.0-23.5 M1160-14 MITKEM M1160 SOIL 7/12/2013 9/3/2013	JT-MW-05 JT-MW-05_23.0-23.5DUP M1160-13 MITKEM M1160 SOIL 7/12/2013 7:45 4/1/2014
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	820 U	740 U	750 U	780 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	400 U	360 U	370 U	380 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	400 U	360 U	370 U	380 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	400 U	360 U	370 U	380 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	820 UJ	740 UJ	750 UJ	780 UJ
121-14-2	2,4-DINITROTOLUENE	ug/Kg	400 U	360 U	370 U	380 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	400 U	360 U	370 U	380 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	400 U	360 U	370 U	380 U
95-57-8	2-CHLOROPHENOL	ug/Kg	400 U	360 U	370 U	380 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	400 U	12000	640	490
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	400 U	80 J	370 U	380 U
88-74-4	2-NITROANILINE	ug/Kg	820 U	740 U	750 U	780 U
88-75-5	2-NITROPHENOL	ug/Kg	400 U	360 U	370 U	380 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	400 U	360 U	370 U	380 U
99-09-2	3-NITROANILINE	ug/Kg	820 U	740 U	750 U	780 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	820 U	740 U	750 U	780 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	400 U	360 U	370 U	380 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	400 U	360 U	370 U	380 U
106-47-8	4-CHLOROANILINE	ug/Kg	400 U	360 U	370 U	380 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	400 U	360 U	370 U	380 U
106-44-5	4-METHYLPHENOL	ug/Kg	400 U	97 J	370 U	380 U
100-01-6	4-NITROANILINE	ug/Kg	820 U	740 U	750 U	780 U
100-02-7	4-NITROPHENOL	ug/Kg	820 U	740 U	750 U	780 U
83-32-9	ACENAPHTHENE	ug/Kg	400 U	18000	680	500
208-96-8	ACENAPHTHYLENE	ug/Kg	400 U	5500	640	470
120-12-7	ANTHRACENE	ug/Kg	400 U	15000	1500	1100
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	180 J	8500	1200	880
50-32-8	BENZO(A)PYRENE	ug/Kg	150 J	5700	850	610
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	220 J	6300	990	740
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	400 U	2900	410	300 J
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	400 U	2800	370 U	300 J
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	400 U	360 U	370 U	380 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	400 U	360 U	370 U	380 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	400 U	360 U	370 U	380 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	400 U	360 U	370 U	380 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	400 U	360 U	370 U	380 U
86-74-8	CARBAZOLE	ug/Kg	400 U	2100	250 J	210 J
218-01-9	CHRYSENE	ug/Kg	200 J	7800	1100	800
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	400 U	680	370 U	380 U
132-64-9	DIBENZOFURAN	ug/Kg	400 U	13000	860	630
84-66-2	DIETHYL PHTHALATE	ug/Kg	400 U	360 U	370 U	380 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	400 U	360 U	370 U	380 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	400 U	360 U	370 U	380 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	400 U	360 U	370 U	380 U
206-44-0	FLUORANTHENE	ug/Kg	290 J	25000	2700	2000
86-73-7	FLUORENE	ug/Kg	400 U	20000	1400	1000
118-74-1	HEXACHLOROBENZENE	ug/Kg	400 U	360 U	370 U	380 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	400 U	360 U	370 U	380 U
67-72-1	HEXACHLOROETHANE	ug/Kg	400 U	360 U	370 U	380 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	400 U	360 U	370 U	380 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	400 U	3200	470	320 J
78-59-1	ISOPHORONE	ug/Kg	400 U	360 U	370 U	380 U
91-20-3	NAPHTHALENE	ug/Kg	400 U	22000	950	800
98-95-3	NITROBENZENE	ug/Kg	400 U	360 U	370 U	380 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	400 U	360 U	370 U	380 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	400 U	360 U	370 U	380 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	820 U	740 U	750 U	780 U
85-01-8	PHENANTHRENE	ug/Kg	220 J	49000	4100	3200
108-95-2	PHENOL	ug/Kg	400 U	360 U	370 U	380 U
129-00-0	PYRENE	ug/Kg	320 J	28000	2900	2200

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-04 JT-MW-04_6.0-6.5 M1160-03 MITKEM M1160 SOIL 7/8/2013 9/3/2013	JT-MW-05 JT-MW-05_10.0-10.5 M1160-12 MITKEM M1160 SOIL 7/11/2013 9/3/2013	JT-MW-05 JT-MW-05_23.0-23.5 M1160-14 MITKEM M1160 SOIL 7/12/2013 9/3/2013	JT-MW-05 JT-MW-05_23.0-23.5DUP M1160-13 MITKEM M1160 SOIL 7/12/2013 7:45 4/1/2014
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/Kg	2.1 U	4 JN		
319-84-6	ALPHA BHC	ug/Kg	2.1 U	4.3 J		
959-98-8	ALPHA ENDOSULFAN	ug/Kg	2.1 U	2 U		
5103-71-9	ALPHA-CHLORDANE	ug/Kg	2.1 U	21 JN		
319-85-7	BETA BHC	ug/Kg	2.1 U	2 U		
33213-65-9	BETA ENDOSULFAN	ug/Kg	4.1 U	3.8 U		
5103-74-2	BETA-CHLORDANE	ug/Kg	2.1 U	17 JN		
319-86-8	DELTA BHC	ug/Kg	2.1 U	2 U		
60-57-1	DIELDRIN	ug/Kg	4.1 U	3.8 U		
1031-07-8	ENDOSULFAN SULFATE	ug/Kg	4.1 U	14 J		
72-20-8	ENDRIN	ug/Kg	4.1 U	3.8 U		
7421-93-4	ENDRIN ALDEHYDE	ug/Kg	9.9	6.1 JN		
53494-70-5	ENDRIN KETONE	ug/Kg	4.1 U	7 JN		
58-89-9	GAMMA BHC (LINDANE)	ug/Kg	2.1 U	4.3 JN		
76-44-8	HEPTACHLOR	ug/Kg	2.1 U	2 U		
1024-57-3	HEPTACHLOR EPOXIDE	ug/Kg	2.1 U	2 U		
72-43-5	METHOXYCHLOR	ug/Kg	21 U	55 J		
72-54-8	P,P'-DDD	ug/Kg	4.1 U	3.8 U		
72-55-9	P,P'-DDE	ug/Kg	4.1 U	8.5 JN		
50-29-3	P,P'-DDT	ug/Kg	4.1 U	13 JN		
8001-35-2	TOXAPHENE	ug/Kg	210 U	200 U		
	PCBs					
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/Kg	41 U	38 U		
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/Kg	41 U	38 U		
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/Kg	41 U	38 U		
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/Kg	41 U	38 U		
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/Kg	41 U	38 U		
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/Kg	41 U	38 U		
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/Kg	41 U	38 U		
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/Kg	41 U	38 U		
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/Kg	41 U	38 U		
	HERBICIDES					
93-72-1	SILVEX (2,4,5-TP)	ug/kg	8.06 U	7.43 U		
	INORGANICS					
7429-90-5	ALUMINUM	mg/Kg	11600	8900		
7440-36-0	ANTIMONY	mg/Kg	0.83 U	0.88 U		
7440-38-2	ARSENIC	mg/Kg	10.2	8.1		
7440-39-3	BARIUM	mg/Kg	115	62.9		
7440-41-7	BERYLLIUM	mg/Kg	0.49	0.32		
7440-43-9	CADMIUM	mg/Kg	0.22	0.18 J		
7440-70-2	CALCIUM	mg/Kg	6830	1660		
16065-83-1	CHROMIUM III	mg/Kg	14	9.6		
18540-29-9	CHROMIUM, HEXAVALENT	mg/Kg	5.1 U	4.6 U		
7440-47-3	CHROMIUM, TOTAL	mg/Kg	13.6	9.6		
7440-48-4	COBALT	mg/Kg	10.6	6.1		
7440-50-8	COPPER	mg/Kg	32.3	24.5		
7439-89-6	IRON	mg/Kg	20300	16300		
7439-92-1	LEAD	mg/Kg	31.6	19.1		
7439-95-4	MAGNESIUM	mg/Kg	4020	2870		
7439-96-5	MANGANESE	mg/Kg	352	288		
7439-97-6	MERCURY	mg/Kg	0.076	0.021 J		
7440-02-0	NICKEL	mg/Kg	20.2	14.2		
7440-09-7	POTASSIUM	mg/Kg	939	564		
7782-49-2	SELENIUM	mg/Kg	1.2 U	1.3 U		
7440-22-4	SILVER	mg/Kg	1.2 U	1.3 U		
7440-23-5	SODIUM	mg/Kg	206	128		
7440-28-0	THALLIUM	mg/Kg	0.83 U	0.88 U		
7440-62-2	VANADIUM	mg/Kg	16	13		
7440-66-6	ZINC	mg/Kg	78.1	59.6		
57-12-5	CYANIDE	mg/Kg	1.2 U	0.95 U	1 U	1.1 U
	OTHER					
MOIST	MOISTURE, PERCENT	%	21	14	13	16

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-01 JT-SB-01-11.0-11.5 M1061-01 MITKEM M1061 SOIL 6/25/2013 9/3/2013	JT-SB-01 JT-SB-01-5.0-5.5 M1061-02 MITKEM M1061 SOIL 6/25/2013 9/3/2013	JT-SB-02 JT-SB-02_16.0-16.5 M1085-02 MITKEM M1085 SOIL 7/1/2013 9/3/2013	JT-SB-02 JT-SB-02_32.0-32.5 M1085-01 MITKEM M1085 SOIL 7/1/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	3900	360 J	88000 J	3.5 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	3800 UJ	380 UJ	170000 U	3.5 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/Kg	1200 J	160 J	170000 U	3.5 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	76000 UJ	7600 UJ	3400000 U	71 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
591-78-6	2-HEXANONE	ug/Kg	3800 U	380 U	170000 U	3.5 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
67-64-1	ACETONE	ug/Kg	R	R	170000 U	R
71-43-2	BENZENE	ug/Kg	1500 J	180 J	170000 U	9.9
108-86-1	BROMOBENZENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-25-2	BROMOFORM	ug/Kg	3800 U	380 U	170000 UJ	3.5 U
74-83-9	BROMOMETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-15-0	CARBON DISULFIDE	ug/Kg	3800 U	380 U	170000 U	3.5 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	3800 U	380 U	170000 U	3.5 U
108-90-7	CHLOROBENZENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-00-3	CHLOROETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
67-66-3	CHLOROFORM	ug/Kg	3800 U	380 U	170000 U	3.5 U
74-87-3	CHLOROMETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	3800 U	42 J	170000 U	3.5 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
99-87-6	CYMENE	ug/Kg	650 J	250 J	170000 U	3.5 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
74-95-3	DIBROMOMETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	3800 U	380 U	170000 UJ	3.5 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	3900	3900 J	170000 U	3.5 U
100-41-4	ETHYLBENZENE	ug/Kg	5900	520 J	40000 J	3.5 U
74-88-4	IODOMETHANE	ug/Kg	3800 UJ	260 J	170000 UJ	3.5 U
98-82-8	ISOPROPYLBENZENE	ug/Kg	480 J	94 J	170000 U	3.5 U
179601-23-1	m,p-Xylene	ug/Kg	2400 J	3300 J	170000 U	3.5 U
78-93-3	METHYL ETHYL KETONE	ug/Kg	R	R	170000 U	R
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	3800 U	380 U	170000 U	3.5 U
104-51-8	N-BUTYLBENZENE	ug/Kg	3800 U	41 J	170000 U	3.5 U
103-65-1	N-PROPYLBENZENE	ug/Kg	410 J	45 J	170000 U	3.5 U
95-47-6	O-XYLENE	ug/Kg	1500 J	640 J	170000 U	3.5 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
100-42-5	STYRENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
98-06-6	T-BUTYLBENZENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	7600 UJ	760 UJ	340000 U	7.1 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	3800 U	380 U	170000 U	3.5 U
127-18-4	TETRACHLOROETHYLENE	ug/Kg	3800 UJ	380 UJ	170000 U	3.5 U
108-88-3	TOLUENE	ug/Kg	860 J	2900 J	170000 U	3.5 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	3800 U	380 U	170000 U	3.5 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	3800 U	380 U	170000 U	3.5 U
108-05-4	VINYL ACETATE	ug/Kg	3800 U	380 U	170000 U	3.5 U
75-01-4	VINYL CHLORIDE	ug/Kg	3800 U	380 U	170000 U	3.5 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-01 JT-SB-01-11.0-11.5 M1061-01 MITKEM M1061 SOIL 6/25/2013 9/3/2013	JT-SB-01 JT-SB-01-5.0-5.5 M1061-02 MITKEM M1061 SOIL 6/25/2013 9/3/2013	JT-SB-02 JT-SB-02_16.0-16.5 M1085-02 MITKEM M1085 SOIL 7/1/2013 9/3/2013	JT-SB-02 JT-SB-02_32.0-32.5 M1085-01 MITKEM M1085 SOIL 7/1/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	890 U	870 U	4300 U	850 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	440 U	430 U	2100 U	420 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	440 U	430 U	2100 U	420 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	440 U	430 U	2100 U	420 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	890 UJ	870 UJ	4300 UJ	850 UJ
121-14-2	2,4-DINITROTOLUENE	ug/Kg	440 U	430 U	2100 U	420 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	440 U	430 U	2100 U	420 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	440 U	430 U	2100 U	420 U
95-57-8	2-CHLOROPHENOL	ug/Kg	440 U	430 U	2100 U	420 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	1100	430 U	260000	420 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	440 U	430 U	2100 U	420 U
88-74-4	2-NITROANILINE	ug/Kg	890 U	870 U	4300 U	850 U
88-75-5	2-NITROPHENOL	ug/Kg	440 U	430 U	2100 U	420 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	440 U	430 U	2100 U	420 U
99-09-2	3-NITROANILINE	ug/Kg	890 U	870 U	4300 U	850 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	890 U	870 U	4300 U	850 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	440 U	430 U	2100 U	420 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	440 U	430 U	2100 U	420 U
106-47-8	4-CHLOROANILINE	ug/Kg	440 U	430 U	2100 U	420 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	440 U	430 U	2100 U	420 U
106-44-5	4-METHYLPHENOL	ug/Kg	440 U	430 U	2100 U	420 U
100-01-6	4-NITROANILINE	ug/Kg	890 U	870 U	4300 U	850 U
100-02-7	4-NITROPHENOL	ug/Kg	890 U	870 U	4300 U	850 U
83-32-9	ACENAPHTHENE	ug/Kg	1800	430 U	420000	420 U
208-96-8	ACENAPHTHYLENE	ug/Kg	220 J	430 U	37000 J	420 U
120-12-7	ANTHRACENE	ug/Kg	960	430 U	190000	420 U
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	850	230 J	98000	420 U
50-32-8	BENZO(A)PYRENE	ug/Kg	1200	190 J	120000	420 U
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	1000	290 J	82000 J	420 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	1400	140 J	110000	420 U
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	380 J	140 J	85000 U	420 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	440 U	430 U	2100 U	420 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	440 U	430 U	2100 U	420 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	440 U	430 U	2100 U	420 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	440 U	430 U	2100 U	420 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	440 U	89 J	2100 U	420 U
86-74-8	CARBAZOLE	ug/Kg	440 U	430 U	2100 U	420 U
218-01-9	CHRYSENE	ug/Kg	990	260 J	94000	420 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	94 J	430 U	9500	420 U
132-64-9	DIBENZOFURAN	ug/Kg	440 U	430 U	2100 U	420 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	440 U	430 U	2100 U	420 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	440 U	430 U	2100 U	420 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	440 U	100 J	2100 U	420 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	440 U	430 U	2100 U	420 U
206-44-0	FLUORANTHENE	ug/Kg	2600	400 J	320000	420 U
86-73-7	FLUORENE	ug/Kg	630	430 U	140000	420 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	440 U	430 U	2100 U	420 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	440 U	430 U	2100 U	420 U
67-72-1	HEXACHLOROETHANE	ug/Kg	440 U	430 U	2100 U	420 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	440 U	430 U	2100 U	420 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	810	140 J	63000 J	420 U
78-59-1	ISOPHORONE	ug/Kg	440 U	430 U	2100 U	420 U
91-20-3	NAPHTHALENE	ug/Kg	7300	430 U	820000	420 U
98-95-3	NITROBENZENE	ug/Kg	440 U	430 U	2100 U	420 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	440 U	430 U	2100 U	420 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	440 U	430 U	2100 U	420 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	890 U	870 U	4300 U	850 U
85-01-8	PHENANTHRENE	ug/Kg	3800	320 J	650000	420 U
108-95-2	PHENOL	ug/Kg	440 U	430 U	2100 U	420 U
129-00-0	PYRENE	ug/Kg	5300 J	420 J	540000	420 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-01 JT-SB-01-11.0-11.5 M1061-01 MITKEM M1061 SOIL 6/25/2013 9/3/2013	JT-SB-01 JT-SB-01-5.0-5.5 M1061-02 MITKEM M1061 SOIL 6/25/2013 9/3/2013	JT-SB-02 JT-SB-02_16.0-16.5 M1085-02 MITKEM M1085 SOIL 7/1/2013 9/3/2013	JT-SB-02 JT-SB-02_32.0-32.5 M1085-01 MITKEM M1085 SOIL 7/1/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/Kg	2.3 U		69	
319-84-6	ALPHA BHC	ug/Kg	2.3 U		22 U	
959-98-8	ALPHA ENDOSULFAN	ug/Kg	2.3 U		22 U	
5103-71-9	ALPHA-CHLORDANE	ug/Kg	2.3 U		29 JN	
319-85-7	BETA BHC	ug/Kg	2.9 JN		22 U	
33213-65-9	BETA ENDOSULFAN	ug/Kg	4.4 U		42 U	
5103-74-2	BETA-CHLORDANE	ug/Kg	2.3 U		87	
319-86-8	DELTA BHC	ug/Kg	3.8		22 U	
60-57-1	DIELDRIN	ug/Kg	4.4 U		42 U	
1031-07-8	ENDOSULFAN SULFATE	ug/Kg	4.4 U		42 U	
72-20-8	ENDRIN	ug/Kg	4.4 U		42 U	
7421-93-4	ENDRIN ALDEHYDE	ug/Kg	4.4 U		42 U	
53494-70-5	ENDRIN KETONE	ug/Kg	4.4 U		42 U	
58-89-9	GAMMA BHC (LINDANE)	ug/Kg	2.3 U		22 U	
76-44-8	HEPTACHLOR	ug/Kg	2.3 JN		22 U	
1024-57-3	HEPTACHLOR EPOXIDE	ug/Kg	2.3 U		22 U	
72-43-5	METHOXYCHLOR	ug/Kg	23 U		220 U	
72-54-8	P,P'-DDD	ug/Kg	11		42 U	
72-55-9	P,P'-DDE	ug/Kg	5 JN		42 U	
50-29-3	P,P'-DDT	ug/Kg	4.4 U		42 U	
8001-35-2	TOXAPHENE	ug/Kg	230 U		2200 U	
	PCBs					
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/Kg	44 U		42 U	
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/Kg	44 U		42 U	
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/Kg	44 U		42 U	
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/Kg	44 U		42 U	
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/Kg	44 U		42 U	
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/Kg	44 U		42 U	
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/Kg	44 U		42 U	
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/Kg	44 U		42 U	
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/Kg	44 U		42 U	
	HERBICIDES					
93-72-1	SILVEX (2,4,5-TP)	ug/kg	8.47 U		9.93 U	
	INORGANICS					
7429-90-5	ALUMINUM	mg/Kg	22500		8540	
7440-36-0	ANTIMONY	mg/Kg	0.45 J		0.67 J	
7440-38-2	ARSENIC	mg/Kg	22		16.5 J	
7440-39-3	BARIUM	mg/Kg	210		119	
7440-41-7	BERYLLIUM	mg/Kg	2.6		0.92	
7440-43-9	CADMIUM	mg/Kg	0.3		0.28 U	
7440-70-2	CALCIUM	mg/Kg	105000		15900	
16065-83-1	CHROMIUM III	mg/Kg	5.5		13	
18540-29-9	CHROMIUM, HEXAVALENT	mg/Kg	5.4 U		5.3 U	
7440-47-3	CHROMIUM, TOTAL	mg/Kg	5.5		13.1	
7440-48-4	COBALT	mg/Kg	4.6		7.3	
7440-50-8	COPPER	mg/Kg	19.6		65.9 J	
7439-89-6	IRON	mg/Kg	78800		19500	
7439-92-1	LEAD	mg/Kg	43.5		53.2 J	
7439-95-4	MAGNESIUM	mg/Kg	23500		4400	
7439-96-5	MANGANESE	mg/Kg	2170		268	
7439-97-6	MERCURY	mg/Kg	0.065		0.35	
7440-02-0	NICKEL	mg/Kg	5.6		19.2	
7440-09-7	POTASSIUM	mg/Kg	1440		681	
7782-49-2	SELENIUM	mg/Kg	1.6 U		2.3	
7440-22-4	SILVER	mg/Kg	0.14 J		0.19 J	
7440-23-5	SODIUM	mg/Kg	807		213	
7440-28-0	THALLIUM	mg/Kg	0.34 J		1.1 U	
7440-62-2	VANADIUM	mg/Kg	11.9		15.2	
7440-66-6	ZINC	mg/Kg	35.5		102	
57-12-5	CYANIDE	mg/Kg	7.4	19.9	1.2 U	1.1 U
	OTHER					
MOIST	MOISTURE, PERCENT	%	26	26	24	22

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-03 JT-SB-03_21.0-21.5 M1085-05 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-03 JT-SB-03_27.0-27.5 M1085-04 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_10.0-10.5 M1085-07 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_31.0-31.5 M1085-09 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	2400	3.7 U	200000 J	3.8 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/Kg	1200 J	3.7 U	650000 U	3.8 U
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	33000 U	74 UJ	13000000 U	75 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
591-78-6	2-HEXANONE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
67-64-1	ACETONE	ug/Kg	1700 U	1.6 J	650000 U	2 J
71-43-2	BENZENE	ug/Kg	640 J	3.7 U	650000 U	3.8 U
108-86-1	BROMOBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-25-2	BROMOFORM	ug/Kg	1700 UJ	3.7 U	650000 UJ	3.8 U
74-83-9	BROMOMETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-15-0	CARBON DISULFIDE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
108-90-7	CHLOROBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-00-3	CHLOROETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
67-66-3	CHLOROFORM	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
74-87-3	CHLOROMETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
99-87-6	CYMENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
74-95-3	DIBROMOMETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	1700 UJ	3.7 U	650000 UJ	3.8 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	5900	3.7 U	650000 U	3.8 U
100-41-4	ETHYLBENZENE	ug/Kg	8700	3.7 U	650000 U	3.8 U
74-88-4	IODOMETHANE	ug/Kg	1700 UJ	3.7 U	650000 UJ	3.8 U
98-82-8	ISOPROPYLBENZENE	ug/Kg	440 J	3.7 U	650000 U	3.8 U
179601-23-1	m,p-Xylene	ug/Kg	3200	3.7 U	650000 U	3.8 U
78-93-3	METHYL ETHYL KETONE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
104-51-8	N-BUTYLBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
103-65-1	N-PROPYLBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
95-47-6	O-XYLENE	ug/Kg	2700	3.7 U	650000 U	3.8 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
100-42-5	STYRENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
98-06-6	T-BUTYLBENZENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	3300 U	7.4 U	1300000 U	7.5 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
127-18-4	TETRACHLOROETHYLENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
108-88-3	TOLUENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
108-05-4	VINYL ACETATE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U
75-01-4	VINYL CHLORIDE	ug/Kg	1700 U	3.7 U	650000 U	3.8 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-03 JT-SB-03_21.0-21.5 M1085-05 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-03 JT-SB-03_27.0-27.5 M1085-04 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_10.0-10.5 M1085-07 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_31.0-31.5 M1085-09 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	890 U	840 U	4700 U	870 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	440 U	410 U	2300 U	430 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	440 U	410 U	2300 U	430 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	440 U	410 U	2300 U	430 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	890 UJ	840 UJ	4700 UJ	870 UJ
121-14-2	2,4-DINITROTOLUENE	ug/Kg	440 U	410 U	2300 U	430 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	440 U	410 U	2300 U	430 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	440 U	410 U	2300 U	430 U
95-57-8	2-CHLOROPHENOL	ug/Kg	440 U	410 U	2300 U	430 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	460	410 U	940000	430 U
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	440 U	410 U	2300 U	430 U
88-74-4	2-NITROANILINE	ug/Kg	890 U	840 U	4700 U	870 U
88-75-5	2-NITROPHENOL	ug/Kg	440 U	410 U	2300 U	430 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	440 U	410 U	2300 U	430 U
99-09-2	3-NITROANILINE	ug/Kg	890 U	840 U	4700 U	870 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	890 U	840 U	4700 U	870 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	440 U	410 U	2300 U	430 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	440 U	410 U	2300 U	430 U
106-47-8	4-CHLOROANILINE	ug/Kg	440 U	410 U	2300 U	430 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	440 U	410 U	2300 U	430 U
106-44-5	4-METHYLPHENOL	ug/Kg	440 U	410 U	2300 U	430 U
100-01-6	4-NITROANILINE	ug/Kg	890 U	840 U	4700 U	870 U
100-02-7	4-NITROPHENOL	ug/Kg	890 U	840 U	4700 U	870 U
83-32-9	ACENAPHTHENE	ug/Kg	870	410 U	1300000	430 U
208-96-8	ACENAPHTHYLENE	ug/Kg	440 U	410 U	700000	430 U
120-12-7	ANTHRACENE	ug/Kg	830	410 U	620000	430 U
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	1600	410 U	370000 J	430 U
50-32-8	BENZO(A)PYRENE	ug/Kg	1300	410 U	470000	430 U
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	1600	410 U	340000 J	430 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	790	410 U	500000	430 U
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	770	410 U	460000 U	430 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	440 U	410 U	2300 U	430 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	440 U	410 U	2300 U	430 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	440 U	410 U	2300 U	430 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	440 U	410 U	2300 U	430 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	440 U	410 U	2300 U	430 U
86-74-8	CARBAZOLE	ug/Kg	190 J	410 U	2300 U	430 U
218-01-9	CHRYSENE	ug/Kg	1700	410 U	380000 J	430 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	220 J	410 U	460000 U	430 U
132-64-9	DIBENZOFURAN	ug/Kg	180 J	410 U	30000	430 U
84-66-2	DIETHYL PHTHALATE	ug/Kg	440 U	410 U	2300 U	430 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	440 U	410 U	2300 U	430 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	440 U	160 J	2300 U	430 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	440 U	410 U	2300 U	430 U
206-44-0	FLUORANTHENE	ug/Kg	3200	410 U	1400000	430 U
86-73-7	FLUORENE	ug/Kg	520	410 U	570000	430 U
118-74-1	HEXACHLOROBENZENE	ug/Kg	440 U	410 U	2300 U	430 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	440 U	410 U	2300 U	430 U
67-72-1	HEXACHLOROETHANE	ug/Kg	440 U	410 U	2300 U	430 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	440 U	410 U	2300 U	430 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	880	410 U	270000 J	430 U
78-59-1	ISOPHORONE	ug/Kg	440 U	410 U	2300 U	430 U
91-20-3	NAPHTHALENE	ug/Kg	1500	140 J	4800000	430 U
98-95-3	NITROBENZENE	ug/Kg	440 U	410 U	2300 U	430 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	440 U	410 U	2300 U	430 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	440 U	410 U	2300 U	430 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	890 U	840 U	4700 U	870 U
85-01-8	PHENANTHRENE	ug/Kg	3400	410 U	2600000	100 J
108-95-2	PHENOL	ug/Kg	440 U	410 U	2300 U	430 U
129-00-0	PYRENE	ug/Kg	3500	410 U	2400000	430 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-03 JT-SB-03_21.0-21.5 M1085-05 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-03 JT-SB-03_27.0-27.5 M1085-04 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_10.0-10.5 M1085-07 MITKEM M1085 SOIL 7/2/2013 9/3/2013	JT-SB-04 JT-SB-04_31.0-31.5 M1085-09 MITKEM M1085 SOIL 7/3/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/Kg	2.3 U		120 U	
319-84-6	ALPHA BHC	ug/Kg	2.3 U		120 U	
959-98-8	ALPHA ENDOSULFAN	ug/Kg	2.3 U		120 U	
5103-71-9	ALPHA-CHLORDANE	ug/Kg	2.3 U		960	
319-85-7	BETA BHC	ug/Kg	2.3 U		120 U	
33213-65-9	BETA ENDOSULFAN	ug/Kg	4.5 U		240 U	
5103-74-2	BETA-CHLORDANE	ug/Kg	2.3 U		450 JN	
319-86-8	DELTA BHC	ug/Kg	2.3 U		120 U	
60-57-1	DIELDRIN	ug/Kg	4.5 U		240 U	
1031-07-8	ENDOSULFAN SULFATE	ug/Kg	4.5 U		570 JN	
72-20-8	ENDRIN	ug/Kg	4.5 U		240 U	
7421-93-4	ENDRIN ALDEHYDE	ug/Kg	4.7		240 U	
53494-70-5	ENDRIN KETONE	ug/Kg	4.5 U		240 U	
58-89-9	GAMMA BHC (LINDANE)	ug/Kg	2.3 U		120 U	
76-44-8	HEPTACHLOR	ug/Kg	2.3 U		120 U	
1024-57-3	HEPTACHLOR EPOXIDE	ug/Kg	2.3 U		120 U	
72-43-5	METHOXYCHLOR	ug/Kg	23 U		1200 U	
72-54-8	P,P'-DDD	ug/Kg	4.5 U		240 U	
72-55-9	P,P'-DDE	ug/Kg	4.5 U		240 U	
50-29-3	P,P'-DDT	ug/Kg	4.5 U		240 U	
8001-35-2	TOXAPHENE	ug/Kg	230 U		12000 U	
	PCBs					
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/Kg	45 U		47 U	
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/Kg	45 U		47 U	
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/Kg	45 U		47 U	
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/Kg	45 U		47 U	
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/Kg	45 U		47 U	
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/Kg	45 U		47 U	
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/Kg	45 U		47 U	
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/Kg	45 U		47 U	
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/Kg	45 U		47 U	
	HERBICIDES					
93-72-1	SILVEX (2,4,5-TP)	ug/kg	9.12 U		9.54 U	
	INORGANICS					
7429-90-5	ALUMINUM	mg/Kg	10700		5320	
7440-36-0	ANTIMONY	mg/Kg	1.1 UJ		1.3 UJ	
7440-38-2	ARSENIC	mg/Kg	13.2 J		6.6 J	
7440-39-3	BARIUM	mg/Kg	149		58.8	
7440-41-7	BERYLLIUM	mg/Kg	0.46		0.61	
7440-43-9	CADMIUM	mg/Kg	0.066 J		0.34 U	
7440-70-2	CALCIUM	mg/Kg	8800		33900	
16065-83-1	CHROMIUM III	mg/Kg	14		4.1	
18540-29-9	CHROMIUM, HEXAVALENT	mg/Kg	5.3 U		5.6 U	
7440-47-3	CHROMIUM, TOTAL	mg/Kg	14.3		4.1	
7440-48-4	COBALT	mg/Kg	8.6		3.2 J	
7440-50-8	COPPER	mg/Kg	71.1 J		47.8 J	
7439-89-6	IRON	mg/Kg	22400		17100	
7439-92-1	LEAD	mg/Kg	212 J		22.7 J	
7439-95-4	MAGNESIUM	mg/Kg	3730		1770	
7439-96-5	MANGANESE	mg/Kg	872		593	
7439-97-6	MERCURY	mg/Kg	5.5		0.34	
7440-02-0	NICKEL	mg/Kg	28.3		7.6	
7440-09-7	POTASSIUM	mg/Kg	1320		432	
7782-49-2	SELENIUM	mg/Kg	1.3 J		2 J	
7440-22-4	SILVER	mg/Kg	3.8		0.26 J	
7440-23-5	SODIUM	mg/Kg	168		287	
7440-28-0	THALLIUM	mg/Kg	1.1 U		1.3 U	
7440-62-2	VANADIUM	mg/Kg	16.3		6.8	
7440-66-6	ZINC	mg/Kg	165		32.9	
57-12-5	CYANIDE	mg/Kg	1.2 U	1.2 U	1.4 U	1.1 U
	OTHER					
MOIST	MOISTURE, PERCENT	%	26	21	31	25

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-05 JT-SB-05_22.0-22.5 M1160-01 MITKEM M1160 SOIL 7/8/2013 9/3/2013	JT-SB-05 JT-SB-05_38.0-38.5 M1160-02 MITKEM M1160 SOIL 7/8/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:		
	VOLATILES			
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/Kg	260 U	4.6 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/Kg	260 U	4.6 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/Kg	260 U	4.6 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/Kg	260 U	4.6 U
75-34-3	1,1-DICHLOROETHANE	ug/Kg	260 U	4.6 U
75-35-4	1,1-DICHLOROETHENE	ug/Kg	260 U	4.6 U
563-58-6	1,1-DICHLOROPROPENE	ug/Kg	260 U	4.6 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/Kg	260 U	4.6 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/Kg	260 U	4.6 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/Kg	260 U	4.6 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/Kg	500	6.1
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/Kg	260 UJ	4.6 U
106-93-4	1,2-DIBROMOETHANE	ug/Kg	260 U	4.6 U
95-50-1	1,2-DICHLOROBENZENE	ug/Kg	260 U	4.6 U
107-06-2	1,2-DICHLOROETHANE	ug/Kg	260 U	4.6 U
78-87-5	1,2-DICHLOROPROPANE	ug/Kg	260 U	4.6 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/Kg	190 J	6.9
541-73-1	1,3-DICHLOROBENZENE	ug/Kg	260 U	4.6 U
142-28-9	1,3-DICHLOROPROPANE	ug/Kg	260 U	4.6 U
106-46-7	1,4-DICHLOROBENZENE	ug/Kg	260 U	4.6 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/Kg	5200 U	91 UJ
594-20-7	2,2-DICHLOROPROPANE	ug/Kg	260 U	4.6 U
95-49-8	2-CHLOROTOLUENE	ug/Kg	260 U	4.6 U
591-78-6	2-HEXANONE	ug/Kg	260 U	4.6 U
106-43-4	4-CHLOROTOLUENE	ug/Kg	260 U	4.6 U
67-64-1	ACETONE	ug/Kg	260 U	3.6 J
71-43-2	BENZENE	ug/Kg	260 U	4.6 U
108-86-1	BROMOBENZENE	ug/Kg	260 U	4.6 U
74-97-5	BROMOCHLOROMETHANE	ug/Kg	260 U	4.6 U
75-27-4	BROMODICHLOROMETHANE	ug/Kg	260 U	4.6 U
75-25-2	BROMOFORM	ug/Kg	260 U	4.6 U
74-83-9	BROMOMETHANE	ug/Kg	260 U	4.6 U
75-15-0	CARBON DISULFIDE	ug/Kg	260 U	4.6 U
56-23-5	CARBON TETRACHLORIDE	ug/Kg	260 U	4.6 U
108-90-7	CHLOROBENZENE	ug/Kg	260 U	4.6 U
75-00-3	CHLOROETHANE	ug/Kg	260 U	4.6 U
67-66-3	CHLOROFORM	ug/Kg	260 U	4.6 U
74-87-3	CHLOROMETHANE	ug/Kg	260 U	4.6 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/Kg	260 U	4.6 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/Kg	260 U	4.6 U
99-87-6	CYMENE	ug/Kg	230 J	4.9
124-48-1	DIBROMOCHLOROMETHANE	ug/Kg	260 U	4.6 U
74-95-3	DIBROMOMETHANE	ug/Kg	260 U	4.6 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/Kg	260 U	4.6 U
1330-20-7	DIMETHYL BENZENE	ug/Kg	160 U	4.6 U
100-41-4	ETHYLBENZENE	ug/Kg	260 U	4.6 U
74-88-4	IODOMETHANE	ug/Kg	260 U	4.6 U
98-82-8	ISOPROPYLBENZENE	ug/Kg	97 J	1.3 J
179601-23-1	m,p-Xylene	ug/Kg	260 U	4.6 U
78-93-3	METHYL ETHYL KETONE	ug/Kg	260 U	4.6 U
108-10-1	METHYL ISOBUTYL KETONE	ug/Kg	260 U	4.6 U
75-09-2	METHYLENE CHLORIDE	ug/Kg	260 U	29
104-51-8	N-BUTYLBENZENE	ug/Kg	460	4.7
103-65-1	N-PROPYLBENZENE	ug/Kg	130 J	1.2 J
95-47-6	O-XYLENE	ug/Kg	260 U	4.6 U
135-98-8	SEC-BUTYLBENZENE	ug/Kg	120 J	1.4 J
100-42-5	STYRENE	ug/Kg	260 U	4.6 U
98-06-6	T-BUTYLBENZENE	ug/Kg	260 U	4.6 U
75-65-0	TERT-BUTYL ALCOHOL	ug/Kg	520 U	9.1 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	ug/Kg	260 U	4.6 U
127-18-4	TETRACHLOROETHYLENE	ug/Kg	260 UJ	4.6 UJ
108-88-3	TOLUENE	ug/Kg	260 U	4.6 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/Kg	260 U	4.6 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/Kg	260 U	4.6 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/Kg	260 U	4.6 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/Kg	260 U	4.6 U
108-05-4	VINYL ACETATE	ug/Kg	260 U	4.6 U
75-01-4	VINYL CHLORIDE	ug/Kg	260 U	4.6 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-05 JT-SB-05_22.0-22.5 M1160-01 MITKEM M1160 SOIL 7/8/2013 9/3/2013	JT-SB-05 JT-SB-05_38.0-38.5 M1160-02 MITKEM M1160 SOIL 7/8/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:		
	SEMIVOLATILES			
95-95-4	2,4,5-TRICHLOROPHENOL	ug/Kg	810 U	790 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/Kg	400 U	390 U
120-83-2	2,4-DICHLOROPHENOL	ug/Kg	400 U	390 U
105-67-9	2,4-DIMETHYLPHENOL	ug/Kg	400 U	390 U
51-28-5	2,4-DINITROPHENOL	ug/Kg	810 UJ	790 UJ
121-14-2	2,4-DINITROTOLUENE	ug/Kg	400 U	390 U
606-20-2	2,6-DINITROTOLUENE	ug/Kg	400 U	390 U
91-58-7	2-CHLORONAPHTHALENE	ug/Kg	400 U	390 U
95-57-8	2-CHLOROPHENOL	ug/Kg	400 U	390 U
91-57-6	2-METHYLNAPHTHALENE	ug/Kg	400 U	600
95-48-7	2-METHYLPHENOL (O-CRESOL)	ug/Kg	400 U	390 U
88-74-4	2-NITROANILINE	ug/Kg	810 U	790 U
88-75-5	2-NITROPHENOL	ug/Kg	400 U	390 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/Kg	400 U	390 U
99-09-2	3-NITROANILINE	ug/Kg	810 U	790 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/Kg	810 U	790 U
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/Kg	400 U	390 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/Kg	400 U	390 U
106-47-8	4-CHLOROANILINE	ug/Kg	400 U	390 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/Kg	400 U	390 U
106-44-5	4-METHYLPHENOL	ug/Kg	400 U	390 U
100-01-6	4-NITROANILINE	ug/Kg	810 U	790 U
100-02-7	4-NITROPHENOL	ug/Kg	810 U	790 U
83-32-9	ACENAPHTHENE	ug/Kg	400 U	3200
208-96-8	ACENAPHTHYLENE	ug/Kg	400 U	1500
120-12-7	ANTHRACENE	ug/Kg	400 U	3600
56-55-3	BENZO(A)ANTHRACENE	ug/Kg	400 U	3700
50-32-8	BENZO(A)PYRENE	ug/Kg	400 U	4200
205-99-2	BENZO(B)FLUORANTHENE	ug/Kg	400 U	3600
191-24-2	BENZO(G,H,I)PERYLENE	ug/Kg	400 U	4000
207-08-9	BENZO(K)FLUORANTHENE	ug/Kg	400 U	390 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/Kg	400 U	390 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/Kg	400 U	390 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/Kg	400 U	390 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/Kg	400 U	390 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/Kg	400 U	390 U
86-74-8	CARBAZOLE	ug/Kg	400 U	390 U
218-01-9	CHRYSENE	ug/Kg	400 U	3300
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/Kg	400 U	340 J
132-64-9	DIBENZOFURAN	ug/Kg	400 U	770
84-66-2	DIETHYL PHTHALATE	ug/Kg	400 U	390 U
131-11-3	DIMETHYL PHTHALATE	ug/Kg	400 U	390 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/Kg	400 U	390 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/Kg	400 U	390 U
206-44-0	FLUORANTHENE	ug/Kg	400 U	9600
86-73-7	FLUORENE	ug/Kg	400 U	2500
118-74-1	HEXACHLOROBENZENE	ug/Kg	400 U	390 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/Kg	400 U	390 U
67-72-1	HEXACHLOROETHANE	ug/Kg	400 U	390 U
87-68-3	HEXACHLOROBUTADIENE	ug/Kg	400 U	390 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/Kg	400 U	2600
78-59-1	ISOPHORONE	ug/Kg	400 U	390 U
91-20-3	NAPHTHALENE	ug/Kg	400 U	500
98-95-3	NITROBENZENE	ug/Kg	400 U	390 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/Kg	400 U	390 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/Kg	400 U	390 U
87-86-5	PENTACHLOROPHENOL	ug/Kg	810 U	790 U
85-01-8	PHENANTHRENE	ug/Kg	400 U	11000
108-95-2	PHENOL	ug/Kg	400 U	390 U
129-00-0	PYRENE	ug/Kg	400 U	14000

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Soil Boring Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-SB-05 JT-SB-05_22.0-22.5 M1160-01 MITKEM M1160 SOIL 7/8/2013 9/3/2013	JT-SB-05 JT-SB-05_38.0-38.5 M1160-02 MITKEM M1160 SOIL 7/8/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:		
	PESTICIDES			
309-00-2	ALDRIN	ug/Kg	2.1 U	
319-84-6	ALPHA BHC	ug/Kg	2.1 U	
959-98-8	ALPHA ENDOSULFAN	ug/Kg	2.1 U	
5103-71-9	ALPHA-CHLORDANE	ug/Kg	2.1 U	
319-85-7	BETA BHC	ug/Kg	2.1 U	
33213-65-9	BETA ENDOSULFAN	ug/Kg	4.1 U	
5103-74-2	BETA-CHLORDANE	ug/Kg	2.1 U	
319-86-8	DELTA BHC	ug/Kg	2.1 U	
60-57-1	DIELDRIN	ug/Kg	4.1 U	
1031-07-8	ENDOSULFAN SULFATE	ug/Kg	4.1 U	
72-20-8	ENDRIN	ug/Kg	4.1 U	
7421-93-4	ENDRIN ALDEHYDE	ug/Kg	4.1 U	
53494-70-5	ENDRIN KETONE	ug/Kg	4.1 U	
58-89-9	GAMMA BHC (LINDANE)	ug/Kg	2.1 U	
76-44-8	HEPTACHLOR	ug/Kg	2.1 U	
1024-57-3	HEPTACHLOR EPOXIDE	ug/Kg	2.1 U	
72-43-5	METHOXYCHLOR	ug/Kg	21 U	
72-54-8	P,P'-DDD	ug/Kg	4.1 U	
72-55-9	P,P'-DDE	ug/Kg	4.1 U	
50-29-3	P,P'-DDT	ug/Kg	4.1 U	
8001-35-2	TOXAPHENE	ug/Kg	210 U	
	PCBs			
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/Kg	41 U	
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/Kg	41 U	
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/Kg	41 U	
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/Kg	41 U	
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/Kg	41 U	
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/Kg	41 U	
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/Kg	41 U	
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/Kg	41 U	
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/Kg	41 U	
	HERBICIDES			
93-72-1	SILVEX (2,4,5-TP)	ug/kg	8.65 U	
	INORGANICS			
7429-90-5	ALUMINUM	mg/Kg	13000	
7440-36-0	ANTIMONY	mg/Kg	1.1 U	
7440-38-2	ARSENIC	mg/Kg	16.2	
7440-39-3	BARIUM	mg/Kg	56.1	
7440-41-7	BERYLLIUM	mg/Kg	0.52	
7440-43-9	CADMIUM	mg/Kg	0.35	
7440-70-2	CALCIUM	mg/Kg	25200	
16065-83-1	CHROMIUM III	mg/Kg	17	
18540-29-9	CHROMIUM, HEXAVALENT	mg/Kg	4.9 U	
7440-47-3	CHROMIUM, TOTAL	mg/Kg	17.1	
7440-48-4	COBALT	mg/Kg	13.4	
7440-50-8	COPPER	mg/Kg	23.4	
7439-89-6	IRON	mg/Kg	31200	
7439-92-1	LEAD	mg/Kg	11	
7439-95-4	MAGNESIUM	mg/Kg	11400	
7439-96-5	MANGANESE	mg/Kg	583	
7439-97-6	MERCURY	mg/Kg	0.0076 J	
7440-02-0	NICKEL	mg/Kg	28.7	
7440-09-7	POTASSIUM	mg/Kg	1370	
7782-49-2	SELENIUM	mg/Kg	1.6 U	
7440-22-4	SILVER	mg/Kg	1.6 U	
7440-23-5	SODIUM	mg/Kg	145	
7440-28-0	THALLIUM	mg/Kg	1.1 U	
7440-62-2	VANADIUM	mg/Kg	17.9	
7440-66-6	ZINC	mg/Kg	71.9	
57-12-5	CYANIDE	mg/Kg	1 U	1.2 U
	OTHER			
MOIST	MOISTURE, PERCENT	%	20	19

ATTACHMENT A-2

VALIDATED LABORATORY DATA FOR GROUNDWATER SAMPLES

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-01 JT-MW-01_072513 M1261-05 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-01 JT-MW-01_112513 M2333-06 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-02 JT-MW-02_072513 M1261-06 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-02 JT-MW-02_112513 M2333-01 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/L	1 U	1 U	1 U	1 U
563-58-6	1,1-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 UJ	1 U	1 UJ
96-18-4	1,2,3-TRICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 UJ	1 U	1 UJ
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/L	3.5	2.4	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/L	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/L	1.2	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
142-28-9	1,3-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/L	100 U	100 U	100 U	100 U
594-20-7	2,2-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 UJ
95-49-8	2-CHLOROTOLUENE	ug/L	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/L	5 U	5 U	5 U	5 U
106-43-4	4-CHLOROTOLUENE	ug/L	1 U	1 U	1 U	1 U
67-64-1	ACETONE	ug/L	5 U	R	5 U	R
71-43-2	BENZENE	ug/L	25	25	1 U	1 U
108-86-1	BROMOBENZENE	ug/L	1 U	1 U	1 U	1 U
74-97-5	BROMOCHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/L	1 U	1 UJ	1 U	1 UJ
74-83-9	BROMOMETHANE	ug/L	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/L	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/L	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/L	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/L	49	48	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U
99-87-6	CYMENE	ug/L	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
74-95-3	DIBROMOMETHANE	ug/L	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/L	1 U	1 UJ	1 U	1 UJ
1330-20-7	DIMETHYL BENZENE	ug/L	4.2	2.9	1 U	1 U
100-41-4	ETHYLBENZENE	ug/L	8.3	4.8	1 U	1 U
74-88-4	IODOMETHANE	ug/L	1 U	1 UJ	1 U	1 UJ
98-82-8	ISOPROPYLBENZENE	ug/L	1 U	1 U	1 U	1 U
179601-23-1	m,p-Xylene	ug/L	2.8	1.8	1 U	1 U
78-93-3	METHYL ETHYL KETONE	ug/L	5 U	R	5 U	R
108-10-1	METHYL ISOBUTYL KETONE	ug/L	5 U	5 U	5 U	5 U
75-09-2	METHYLENE CHLORIDE	ug/L	1 U	1 U	1 U	1 U
104-51-8	N-BUTYLBENZENE	ug/L	1 U	1 U	1 U	1 U
103-65-1	N-PROPYLBENZENE	ug/L	1 U	1 U	1 U	1 U
95-47-6	O-XYLENE	ug/L	1.3	1.1	1 U	1 U
135-98-8	SEC-BUTYLBENZENE	ug/L	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/L	1 U	1 U	1 U	1 U
98-06-6	T-BUTYLBENZENE	ug/L	1 U	1 U	1 U	1 U
75-65-0	TERT-BUTYL ALCOHOL	ug/L	10 U	10 U	10 U	10 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/L	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE	ug/L	4.3	13	2.5	1.6
108-88-3	TOLUENE	ug/L	1 U	0.5 J	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/L	8.1	10	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/L	6.8	7.5	1 U	1.1
75-69-4	TRICHLOROFLUOROMETHANE	ug/L	1 U	1 U	1 U	1 U
108-05-4	VINYL ACETATE	ug/L	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/L	2.5	4	1 U	1 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-01 JT-MW-01_072513 M1261-05 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-01 JT-MW-01_112513 M2333-06 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-02 JT-MW-02_072513 M1261-06 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-02 JT-MW-02_112513 M2333-01 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/L	20 U	20 U	20 U	20 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/L	10 U	10 U	10 U	10 U
120-83-2	2,4-DICHLOROPHENOL	ug/L	10 U	10 U	10 U	10 U
105-67-9	2,4-DIMETHYLPHENOL	ug/L	10 U	10 U	10 U	10 U
51-28-5	2,4-DINITROPHENOL	ug/L	20 UJ	20 UJ	20 UJ	20 UJ
121-14-2	2,4-DINITROTOLUENE	ug/L	10 U	10 U	10 U	10 U
606-20-2	2,6-DINITROTOLUENE	ug/L	10 U	10 U	10 U	10 U
91-58-7	2-CHLORONAPHTHALENE	ug/L	10 U	10 U	10 U	10 U
95-57-8	2-CHLOROPHENOL	ug/L	10 U	10 U	10 U	10 U
91-57-6	2-METHYLNAPHTHALENE	ug/L	10 U	10 U	10 U	10 U
95-48-7	2-METHYLPHENOL	ug/L	10 U	10 U	10 U	10 U
88-74-4	2-NITROANILINE	ug/L	20 U	20 U	20 U	20 U
88-75-5	2-NITROPHENOL	ug/L	10 U	10 U	10 U	10 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/L	10 U	10 U	10 U	10 U
99-09-2	3-NITROANILINE	ug/L	20 U	20 U	20 U	20 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/L	20 U	20 UJ	20 U	20 UJ
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/L	10 U	10 U	10 U	10 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/L	10 U	10 U	10 U	10 U
106-47-8	4-CHLOROANILINE	ug/L	10 U	10 U	10 U	10 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/L	10 U	10 U	10 U	10 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/L	10 U	10 U	10 U	10 U
100-01-6	4-NITROANILINE	ug/L	20 U	20 U	20 U	20 U
100-02-7	4-NITROPHENOL	ug/L	20 U	20 U	20 U	20 U
83-32-9	ACENAPHTHENE	ug/L	10 U	10 U	10 U	10 U
208-96-8	ACENAPHTHYLENE	ug/L	10 U	10 U	10 U	10 U
120-12-7	ANTHRACENE	ug/L	10 U	10 U	10 U	10 U
56-55-3	BENZO(A)ANTHRACENE	ug/L	10 U	10 U	10 U	10 U
50-32-8	BENZO(A)PYRENE	ug/L	10 U	10 U	10 U	10 U
205-99-2	BENZO(B)FLUORANTHENE	ug/L	10 U	10 U	10 U	10 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/L	10 U	10 UJ	10 U	10 UJ
207-08-9	BENZO(K)FLUORANTHENE	ug/L	10 U	10 U	10 U	10 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/L	10 U	10 U	10 U	10 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/L	10 U	10 U	10 U	10 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/L	10 U	10 U	10 U	10 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	10 U	10 U	10 U	10 U
86-74-8	CARBAZOLE	ug/L	10 U	10 U	10 U	10 U
218-01-9	CHRYSENE	ug/L	10 U	10 U	10 U	10 U
91-20-3	NAPHTHALENE	ug/L	10 U	36	10 U	10 U
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/L	10 U	10 U	10 U	10 U
132-64-9	DIBENZOFURAN	ug/L	10 U	10 U	10 U	10 U
84-66-2	DIETHYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
131-11-3	DIMETHYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/L	10 U	10 U	10 U	10 U
206-44-0	FLUORANTHENE	ug/L	10 U	10 U	10 U	10 U
86-73-7	FLUORENE	ug/L	10 U	10 U	10 U	10 U
118-74-1	HEXACHLOROBENZENE	ug/L	10 U	10 U	10 U	10 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/L	10 U	10 UJ	10 U	10 UJ
67-72-1	HEXACHLOROETHANE	ug/L	10 U	10 U	10 U	10 U
87-68-3	HEXACHLOROBUTADIENE	ug/L	10 U	10 U	10 U	10 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/L	10 U	10 U	10 U	10 U
78-59-1	ISOPHORONE	ug/L	10 U	10 U	10 U	10 U
98-95-3	NITROBENZENE	ug/L	10 U	10 U	10 U	10 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/L	10 U	10 U	10 U	10 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/L	10 U	10 U	10 U	10 U
87-86-5	PENTACHLOROPHENOL	ug/L	20 U	20 UJ	20 U	20 UJ
85-01-8	PHENANTHRENE	ug/L	10 U	10 U	10 U	10 U
108-95-2	PHENOL	ug/L	10 U	10 U	10 U	10 U
129-00-0	PYRENE	ug/L	10 U	10 U	10 U	10 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-01 JT-MW-01_072513 M1261-05 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-01 JT-MW-01_112513 M2333-06 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-02 JT-MW-02_072513 M1261-06 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-02 JT-MW-02_112513 M2333-01 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
319-84-6	ALPHA BHC	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
959-98-8	ALPHA ENDOSULFAN	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
5103-71-9	ALPHA-CHLORDANE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
319-85-7	BETA BHC	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
33213-65-9	BETA ENDOSULFAN	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
5103-74-2	BETA-CHLORDANE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
319-86-8	DELTA BHC	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
60-57-1	DIELDRIN	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8	ENDOSULFAN SULFATE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8	ENDRIN	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
7421-93-4	ENDRIN ALDEHYDE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
53494-70-5	ENDRIN KETONE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
58-89-9	GAMMA BHC (LINDANE)	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
76-44-8	HEPTACHLOR	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
72-43-5	METHOXYCHLOR	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
72-54-8	P,P'-DDD	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
72-55-9	P,P'-DDE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
50-29-3	P,P'-DDT	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
8001-35-2	TOXAPHENE	ug/L	5 U	5 U	5 U	5 U
v	PCBs					
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/L	1 U	1 U	1 U	1 U
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/L	1 U	1 U	1 U	1 U
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/L	1 U	1 U	1 U	1 U
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/L	1 U	1 U	1 U	1 U
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/L	1 U	1 U	1 U	1 U
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/L	1 U	1 U	1 U	1 U
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/L	1 U	1 U	1 U	1 U
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/L	1 U	1 U	1 U	1 U
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/L	1 U	1 U	1 U	1 U
	INORGANICS					
7429-90-5	ALUMINUM	ug/L	188 J	129 J	200 U	148 J
7440-36-0	ANTIMONY	ug/L	20 U	20 U	20 U	20 U
7440-38-2	ARSENIC	ug/L	10.9 J	10.3 J	34.9	27.2
7440-39-3	BARIUM	ug/L	287	252	200	223
7440-41-7	BERYLLIUM	ug/L	5 U	5 U	5 U	5 U
7440-43-9	CADMIUM	ug/L	5 U	5 U	5 U	5 U
7440-70-2	CALCIUM	ug/L	145000	138000	163000	168000
7440-47-3	CHROMIUM, TOTAL	ug/L	20 U	20 U	0.71 J	20 U
7440-48-4	COBALT	ug/L	0.87 J	50 U	50 U	50 U
7440-50-8	COPPER	ug/L	30 U	30 U	30 U	30 U
7439-89-6	IRON	ug/L	4350	5000	2680	3550
7439-92-1	LEAD	ug/L	5.4 J	10 U	10 U	10 U
7439-95-4	MAGNESIUM	ug/L	27900	26800	28600	29700
7439-96-5	MANGANESE	ug/L	3510	3080	3210	3850
7439-97-6	MERCURY	ug/L	0.2 U	0.2 U	0.2 U	0.2 U
7440-02-0	NICKEL	ug/L	1.2 J	50 U	1.1 J	50 U
7440-09-7	POTASSIUM	ug/L	16200	14700 J	11600	10000 J
7782-49-2	SELENIUM	ug/L	30 U	30 U	30 U	30 U
7440-22-4	SILVER	ug/L	30 U	30 U	30 U	30 U
7440-23-5	SODIUM	ug/L	287000	280000	307000	296000
7440-28-0	THALLIUM	ug/L	20 U	20 U	20 U	20 U
7440-62-2	VANADIUM	ug/L	50 U	50 U	50 U	50 U
7440-66-6	ZINC	ug/L	50 U	7.3 J	50 U	50 U
57-12-5	CYANIDE	ug/L	20 U	20 U	20 U	20 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-03 JT-MW-03_072413 M1261-01 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-03 JT-MW-030_072413 M1261-02 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-03 JT-MW-03_112513 M2333-04 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-03 JT-MW-030_112513 M2333-05 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/L	1 U	1 U	1 U	1 U
563-58-6	1,1-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 UJ	1 UJ
96-18-4	1,2,3-TRICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 UJ	1 UJ
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/L	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
142-28-9	1,3-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/L	100 U	100 U	100 U	100 U
594-20-7	2,2-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
95-49-8	2-CHLOROTOLUENE	ug/L	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/L	5 U	5 U	5 U	5 U
106-43-4	4-CHLOROTOLUENE	ug/L	1 U	1 U	1 U	1 U
67-64-1	ACETONE	ug/L	5 U	5 U	R	R
71-43-2	BENZENE	ug/L	3.8	3.6	3.1	3.1
108-86-1	BROMOBENZENE	ug/L	1 U	1 U	1 U	1 U
74-97-5	BROMOCHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/L	1 U	1 U	1 UJ	1 UJ
74-83-9	BROMOMETHANE	ug/L	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/L	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/L	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/L	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/L	1.5	1.2	2.1	2
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U
99-87-6	CYMENE	ug/L	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
74-95-3	DIBROMOMETHANE	ug/L	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/L	1 U	1 U	1 UJ	1 UJ
1330-20-7	DIMETHYL BENZENE	ug/L	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U
74-88-4	IODOMETHANE	ug/L	1 U	1 U	1 UJ	1 UJ
98-82-8	ISOPROPYLBENZENE	ug/L	1 U	1 U	1 U	1 U
179601-23-1	m,p-Xylene	ug/L	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE	ug/L	5 U	5 U	R	R
108-10-1	METHYL ISOBUTYL KETONE	ug/L	5 U	5 U	5 U	5 U
75-09-2	METHYLENE CHLORIDE	ug/L	1 U	1 U	1 U	1 U
104-51-8	N-BUTYLBENZENE	ug/L	1 U	1 U	1 U	1 U
103-65-1	N-PROPYLBENZENE	ug/L	1 U	1 U	1 U	1 U
95-47-6	O-XYLENE	ug/L	1 U	1 U	1 U	1 U
135-98-8	SEC-BUTYLBENZENE	ug/L	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/L	1 U	1 U	1 U	1 U
98-06-6	T-BUTYLBENZENE	ug/L	1 U	1 U	1 U	1 U
75-65-0	TERT-BUTYL ALCOHOL	ug/L	10 U	10 U	10 U	10 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/L	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE	ug/L	1 U	1 U	1 U	1 U
108-88-3	TOLUENE	ug/L	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/L	1.2	1.2	2.1	2
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/L	1.5	1.3	2.1	2
75-69-4	TRICHLOROFLUOROMETHANE	ug/L	1 U	1 U	1 U	1 U
108-05-4	VINYL ACETATE	ug/L	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/L	1 U	1 U	1 U	1 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-03 JT-MW-03_072413 M1261-01 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-03 JT-MW-030_072413 M1261-02 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-03 JT-MW-03_112513 M2333-04 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-03 JT-MW-030_112513 M2333-05 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/L	20 U	20 U	20 U	20 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/L	10 U	10 U	10 U	10 U
120-83-2	2,4-DICHLOROPHENOL	ug/L	10 U	10 U	10 U	10 U
105-67-9	2,4-DIMETHYLPHENOL	ug/L	10 U	10 U	10 U	10 U
51-28-5	2,4-DINITROPHENOL	ug/L	20 UJ	20 UJ	20 UJ	20 UJ
121-14-2	2,4-DINITROTOLUENE	ug/L	10 U	10 U	10 U	10 U
606-20-2	2,6-DINITROTOLUENE	ug/L	10 U	10 U	10 U	10 U
91-58-7	2-CHLORONAPHTHALENE	ug/L	10 U	10 U	10 U	10 U
95-57-8	2-CHLOROPHENOL	ug/L	10 U	10 U	10 U	10 U
91-57-6	2-METHYLNAPHTHALENE	ug/L	10 U	10 U	10 U	10 U
95-48-7	2-METHYLPHENOL	ug/L	10 U	10 U	10 U	10 U
88-74-4	2-NITROANILINE	ug/L	20 U	20 U	20 U	20 U
88-75-5	2-NITROPHENOL	ug/L	10 U	10 U	10 U	10 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/L	10 U	10 U	10 U	10 U
99-09-2	3-NITROANILINE	ug/L	20 U	20 U	20 U	20 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/L	20 U	20 U	20 UJ	20 UJ
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/L	10 U	10 U	10 U	10 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/L	10 U	10 U	10 U	10 U
106-47-8	4-CHLOROANILINE	ug/L	10 U	10 U	10 U	10 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/L	10 U	10 U	10 U	10 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/L	10 U	10 U	10 U	10 U
100-01-6	4-NITROANILINE	ug/L	20 U	20 U	20 U	20 U
100-02-7	4-NITROPHENOL	ug/L	20 U	20 U	20 U	20 U
83-32-9	ACENAPHTHENE	ug/L	8.9 J	8.2 J	5.1 J	5.8 J
208-96-8	ACENAPHTHYLENE	ug/L	3.1 J	2.8 J	3.8 J	4.2 J
120-12-7	ANTHRACENE	ug/L	10 U	10 U	10 U	10 U
56-55-3	BENZO(A)ANTHRACENE	ug/L	10 U	10 U	10 U	10 U
50-32-8	BENZO(A)PYRENE	ug/L	10 U	10 U	10 U	10 U
205-99-2	BENZO(B)FLUORANTHENE	ug/L	10 U	10 U	10 U	10 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/L	10 U	10 U	10 UJ	10 UJ
207-08-9	BENZO(K)FLUORANTHENE	ug/L	10 U	10 U	10 U	10 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/L	10 U	10 U	10 U	10 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/L	10 U	10 U	10 U	10 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/L	10 U	10 U	10 U	10 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	10 U	10 U	10 U	10 U
86-74-8	CARBAZOLE	ug/L	10 U	10 U	10 U	10 U
218-01-9	CHRYSENE	ug/L	10 U	10 U	10 U	10 U
91-20-3	NAPHTHALENE	ug/L	2.2 J	1.6 J	10 U	1 J
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/L	10 U	10 U	10 U	10 U
132-64-9	DIBENZOFURAN	ug/L	10 U	10 U	10 U	10 U
84-66-2	DIETHYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
131-11-3	DIMETHYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/L	10 U	10 U	10 U	10 U
206-44-0	FLUORANTHENE	ug/L	10 U	10 U	10 U	10 U
86-73-7	FLUORENE	ug/L	1 J	10 U	1 J	1.2 J
118-74-1	HEXACHLOROBENZENE	ug/L	10 U	10 U	10 U	10 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/L	10 U	10 U	10 UJ	10 UJ
67-72-1	HEXACHLOROETHANE	ug/L	10 U	10 U	10 U	10 U
87-68-3	HEXACHLOROBUTADIENE	ug/L	10 U	10 U	10 U	10 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/L	10 U	10 U	10 U	10 U
78-59-1	ISOPHORONE	ug/L	10 U	10 U	10 U	10 U
98-95-3	NITROBENZENE	ug/L	10 U	10 U	10 U	10 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/L	10 U	10 U	10 U	10 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/L	10 U	10 U	10 U	10 U
87-86-5	PENTACHLOROPHENOL	ug/L	20 U	20 U	20 UJ	20 UJ
85-01-8	PHENANTHRENE	ug/L	1.3 J	1.2 J	10 U	10 U
108-95-2	PHENOL	ug/L	10 U	10 U	10 U	10 U
129-00-0	PYRENE	ug/L	1.7 J	1.6 J	2.1 J	3 J

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-03 JT-MW-03_072413 M1261-01 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-03 JT-MW-030_072413 M1261-02 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-03 JT-MW-03_112513 M2333-04 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-03 JT-MW-030_112513 M2333-05 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
319-84-6	ALPHA BHC	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
959-98-8	ALPHA ENDOSULFAN	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
5103-71-9	ALPHA-CHLORDANE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
319-85-7	BETA BHC	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
33213-65-9	BETA ENDOSULFAN	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
5103-74-2	BETA-CHLORDANE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
319-86-8	DELTA BHC	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
60-57-1	DIELDRIN	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8	ENDOSULFAN SULFATE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8	ENDRIN	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
7421-93-4	ENDRIN ALDEHYDE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
53494-70-5	ENDRIN KETONE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
58-89-9	GAMMA BHC (LINDANE)	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
76-44-8	HEPTACHLOR	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
72-43-5	METHOXYCHLOR	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
72-54-8	P,P'-DDD	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
72-55-9	P,P'-DDE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
50-29-3	P,P'-DDT	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
8001-35-2	TOXAPHENE	ug/L	5 U	5 U	5 U	5 U
v	PCBs					
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/L	1 U	1 U	1 U	1 U
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/L	1 U	1 U	1 U	1 U
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/L	1 U	1 U	1 U	1 U
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/L	1 U	1 U	1 U	1 U
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/L	1 U	1 U	1 U	1 U
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/L	1 U	1 U	1 U	1 U
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/L	1 U	1 U	1 U	1 U
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/L	1 U	1 U	1 U	1 U
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/L	1 U	1 U	1 U	1 U
	INORGANICS					
7429-90-5	ALUMINUM	ug/L	200 U	200 U	86.8 J	200 U
7440-36-0	ANTIMONY	ug/L	11.4 J	20 U	20 U	20 U
7440-38-2	ARSENIC	ug/L	7.2 J	12 J	20 U	20 U
7440-39-3	BARIUM	ug/L	232	227	204	209
7440-41-7	BERYLLIUM	ug/L	5 U	5 U	5 U	5 U
7440-43-9	CADMIUM	ug/L	5 U	5 U	5 U	5 U
7440-70-2	CALCIUM	ug/L	130000	129000	121000	127000
7440-47-3	CHROMIUM, TOTAL	ug/L	1 J	0.71 J	1.1 J	0.94 J
7440-48-4	COBALT	ug/L	50 U	50 U	50 U	50 U
7440-50-8	COPPER	ug/L	30 U	30 U	30 U	30 U
7439-89-6	IRON	ug/L	1150	1100	1880	1720
7439-92-1	LEAD	ug/L	10 U	10 U	10 U	10 U
7439-95-4	MAGNESIUM	ug/L	23800	23400	23200	23500
7439-96-5	MANGANESE	ug/L	1070	1040	733	756
7439-97-6	MERCURY	ug/L	0.2 U	0.2 U	0.2 U	0.2 U
7440-02-0	NICKEL	ug/L	50 U	50 U	50 U	50 U
7440-09-7	POTASSIUM	ug/L	11000	10900	8600 J	9170 J
7782-49-2	SELENIUM	ug/L	13.4 J	13.3 J	12.9 J	30 U
7440-22-4	SILVER	ug/L	30 U	30 U	30 U	30 U
7440-23-5	SODIUM	ug/L	260000	263000	259000	270000
7440-28-0	THALLIUM	ug/L	20 U	20 U	20 U	20 U
7440-62-2	VANADIUM	ug/L	50 U	50 U	50 U	50 U
7440-66-6	ZINC	ug/L	5.1 J	50 U	50 U	50 U
57-12-5	CYANIDE	ug/L	7.5 J	7.9 J	20 U	20 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-04 JT-MW-04_072413 M1261-03 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-04 JT-MW-04_112513 M2333-03 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-05 JT-MW-05_072513 M1261-07 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-05 JT-MW-05_112513 M2333-02 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/L	1 U	1 U	1 U	5 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	5 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/L	1 U	1 U	1 U	5 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	5 U
75-34-3	1,1-DICHLOROETHANE	ug/L	1 U	1 U	1 U	5 U
75-35-4	1,1-DICHLOROETHENE	ug/L	1 U	1 U	1 U	5 U
563-58-6	1,1-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	5 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 UJ	1 U	5 UJ
96-18-4	1,2,3-TRICHLOROPROPANE	ug/L	1 U	1 U	1 U	5 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 UJ	1 U	5 UJ
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/L	1 U	1 U	37	16
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	1 U	1 U	1 U	5 UJ
106-93-4	1,2-DIBROMOETHANE	ug/L	1 U	1 U	1 U	5 U
95-50-1	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	5 U
107-06-2	1,2-DICHLOROETHANE	ug/L	1 U	1 U	1 U	5 U
78-87-5	1,2-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	5 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/L	1 U	1 U	15	5 U
541-73-1	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	5 U
142-28-9	1,3-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	5 U
106-46-7	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	5 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/L	100 U	100 U	100 U	500 U
594-20-7	2,2-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	5 U
95-49-8	2-CHLOROTOLUENE	ug/L	1 U	1 U	1 U	5 U
591-78-6	2-HEXANONE	ug/L	5 U	5 U	5 U	25 U
106-43-4	4-CHLOROTOLUENE	ug/L	1 U	1 U	1 U	5 U
67-64-1	ACETONE	ug/L	5 U	R	5 U	R
71-43-2	BENZENE	ug/L	1 U	1 U	16	9.9
108-86-1	BROMOBENZENE	ug/L	1 U	1 U	1 U	5 U
74-97-5	BROMOCHLOROMETHANE	ug/L	1 U	1 U	1 U	5 U
75-27-4	BROMODICHLOROMETHANE	ug/L	1 U	1 U	1 U	5 U
75-25-2	BROMOFORM	ug/L	1 U	1 UJ	1 U	5 UJ
74-83-9	BROMOMETHANE	ug/L	1 U	1 U	1 U	5 UJ
75-15-0	CARBON DISULFIDE	ug/L	1 U	1 U	1 U	5 U
56-23-5	CARBON TETRACHLORIDE	ug/L	1 U	1 U	1 U	5 U
108-90-7	CHLOROBENZENE	ug/L	1 U	1 U	1 U	5 U
75-00-3	CHLOROETHANE	ug/L	1 U	1 U	1 U	5 U
67-66-3	CHLOROFORM	ug/L	1 U	1 U	1 U	5 U
74-87-3	CHLOROMETHANE	ug/L	1 U	1 U	1 U	5 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/L	1 U	1 U	1 U	5 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	5 U
99-87-6	CYMENE	ug/L	1 U	1 U	3.4	5 U
124-48-1	DIBROMOCHLOROMETHANE	ug/L	1 U	1 U	1 U	5 U
74-95-3	DIBROMOMETHANE	ug/L	1 U	1 U	1 U	5 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/L	1 U	1 UJ	1 U	5 UJ
1330-20-7	DIMETHYL BENZENE	ug/L	1 U	1 U	50	17
100-41-4	ETHYLBENZENE	ug/L	1 U	1 U	11	5.1
74-88-4	IODOMETHANE	ug/L	1 U	1 UJ	1 U	5 UJ
98-82-8	ISOPROPYLBENZENE	ug/L	1 U	1 U	4.5	2.7 J
179601-23-1	m,p-Xylene	ug/L	1 U	1 U	29	8.4
78-93-3	METHYL ETHYL KETONE	ug/L	5 U	R	5 U	R
108-10-1	METHYL ISOBUTYL KETONE	ug/L	5 U	5 U	5 U	25 U
75-09-2	METHYLENE CHLORIDE	ug/L	1 U	1 U	1 U	5 U
104-51-8	N-BUTYLBENZENE	ug/L	1 U	1 U	3.5	5 U
103-65-1	N-PROPYLBENZENE	ug/L	1 U	1 U	3.2	5 U
95-47-6	O-XYLENE	ug/L	1 U	1 U	21	8.4
135-98-8	SEC-BUTYLBENZENE	ug/L	1 U	1 U	1 U	5 U
100-42-5	STYRENE	ug/L	1 U	1 U	2.6	5 U
98-06-6	T-BUTYLBENZENE	ug/L	1 U	1 U	1 U	5 U
75-65-0	TERT-BUTYL ALCOHOL	ug/L	10 U	10 U	10 U	50 UJ
1634-04-4	TERT-BUTYL METHYL ETHER	ug/L	1 U	1 U	1 U	5 U
127-18-4	TETRACHLOROETHYLENE	ug/L	97	65	1 U	5 U
108-88-3	TOLUENE	ug/L	1 U	1 U	20	9
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/L	1 U	1 U	1 U	5 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	5 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/L	1.1	0.65 J	1 U	5 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/L	1 U	1 U	1 U	5 U
108-05-4	VINYL ACETATE	ug/L	1 U	1 U	1 U	5 U
75-01-4	VINYL CHLORIDE	ug/L	1 U	1 U	1 U	5 U

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-04 JT-MW-04_072413 M1261-03 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-04 JT-MW-04_112513 M2333-03 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-05 JT-MW-05_072513 M1261-07 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-05 JT-MW-05_112513 M2333-02 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
95-95-4	2,4,5-TRICHLOROPHENOL	ug/L	20 U	20 U	20 U	20 U
88-06-2	2,4,6-TRICHLOROPHENOL	ug/L	10 U	10 U	10 U	10 U
120-83-2	2,4-DICHLOROPHENOL	ug/L	10 U	10 U	10 U	10 U
105-67-9	2,4-DIMETHYLPHENOL	ug/L	10 U	10 U	10 U	10 U
51-28-5	2,4-DINITROPHENOL	ug/L	20 UJ	20 UJ	20 UJ	20 UJ
121-14-2	2,4-DINITROTOLUENE	ug/L	10 U	10 U	10 U	10 U
606-20-2	2,6-DINITROTOLUENE	ug/L	10 U	10 U	10 U	10 U
91-58-7	2-CHLORONAPHTHALENE	ug/L	10 U	10 U	10 U	10 U
95-57-8	2-CHLOROPHENOL	ug/L	10 U	10 U	10 U	10 U
91-57-6	2-METHYLNAPHTHALENE	ug/L	10 U	10 U	80	26
95-48-7	2-METHYLPHENOL	ug/L	10 U	10 U	5.7 J	2.4 J
88-74-4	2-NITROANILINE	ug/L	20 U	20 U	20 U	20 U
88-75-5	2-NITROPHENOL	ug/L	10 U	10 U	10 U	10 U
91-94-1	3,3'-DICHLOROBENZIDINE	ug/L	10 U	10 U	10 U	10 U
99-09-2	3-NITROANILINE	ug/L	20 U	20 U	20 U	20 U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/L	20 U	20 UJ	20 U	20 UJ
101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/L	10 U	10 U	10 U	10 U
59-50-7	4-CHLORO-3-METHYLPHENOL	ug/L	10 U	10 U	10 U	10 U
106-47-8	4-CHLOROANILINE	ug/L	10 U	10 U	10 U	10 U
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/L	10 U	10 U	10 U	10 U
106-44-5	4-METHYLPHENOL (P-CRESOL)	ug/L	10 U	10 U	3.6 J	10 U
100-01-6	4-NITROANILINE	ug/L	20 U	20 U	20 U	20 U
100-02-7	4-NITROPHENOL	ug/L	20 U	20 U	20 U	20 U
83-32-9	ACENAPHTHENE	ug/L	10 U	10 U	120	120
208-96-8	ACENAPHTHYLENE	ug/L	10 U	10 U	21	10 U
120-12-7	ANTHRACENE	ug/L	10 U	10 U	15	13
56-55-3	BENZO(A)ANTHRACENE	ug/L	10 U	10 U	10 U	10 U
50-32-8	BENZO(A)PYRENE	ug/L	10 U	10 U	10 U	10 U
205-99-2	BENZO(B)FLUORANTHENE	ug/L	10 U	10 U	10 U	10 U
191-24-2	BENZO(G,H,I)PERYLENE	ug/L	10 U	10 UJ	10 U	10 UJ
207-08-9	BENZO(K)FLUORANTHENE	ug/L	10 U	10 U	10 U	10 U
85-68-7	BENZYL BUTYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/L	10 U	10 U	10 U	10 U
111-44-4	BIS(2-CHLOROETHYL) ETHER	ug/L	10 U	10 U	10 U	10 U
108-60-1	BIS(2-CHLOROISOPROPYL) ETHER	ug/L	10 U	10 U	10 U	10 U
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	10 U	10 U	10 U	10 U
86-74-8	CARBAZOLE	ug/L	10 U	10 U	42	24
218-01-9	CHRYSENE	ug/L	10 U	10 U	10 U	10 U
91-20-3	NAPHTHALENE	ug/L	10 U	10 U	100	260
53-70-3	DIBENZ(A,H)ANTHRACENE	ug/L	10 U	10 U	10 U	10 U
132-64-9	DIBENZOFURAN	ug/L	10 U	10 U	69	55
84-66-2	DIETHYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
131-11-3	DIMETHYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
84-74-2	DI-N-BUTYL PHTHALATE	ug/L	10 U	10 U	10 U	10 U
117-84-0	DI-N-OCTYLPHTHALATE	ug/L	10 U	10 U	10 U	10 U
206-44-0	FLUORANTHENE	ug/L	10 U	10 U	9.2 J	8.4 J
86-73-7	FLUORENE	ug/L	10 U	10 U	76	73
118-74-1	HEXACHLOROBENZENE	ug/L	10 U	10 U	10 U	10 U
77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/L	10 U	10 UJ	10 U	10 UJ
67-72-1	HEXACHLOROETHANE	ug/L	10 U	10 U	10 U	10 U
87-68-3	HEXACHLOROBUTADIENE	ug/L	10 U	10 U	10 U	10 U
193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/L	10 U	10 U	10 U	10 U
78-59-1	ISOPHORONE	ug/L	10 U	10 U	10 U	10 U
98-95-3	NITROBENZENE	ug/L	10 U	10 U	10 U	10 U
621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/L	10 U	10 U	10 U	10 U
86-30-6	N-NITROSODIPHENYLAMINE	ug/L	10 U	10 U	10 U	10 U
87-86-5	PENTACHLOROPHENOL	ug/L	20 U	20 UJ	20 U	20 UJ
85-01-8	PHENANTHRENE	ug/L	10 U	10 U	67	68
108-95-2	PHENOL	ug/L	10 U	10 U	2.1 J	10 U
129-00-0	PYRENE	ug/L	10 U	10 U	7.6 J	6.7 J

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Groundwater Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	JT-MW-04 JT-MW-04_072413 M1261-03 MITKEM M1261 WATER 7/24/2013 9/3/2013	JT-MW-04 JT-MW-04_112513 M2333-03 MITKEM M2333 WATER 11/25/2013 1/13/2014	JT-MW-05 JT-MW-05_072513 M1261-07 MITKEM M1261 WATER 7/25/2013 9/3/2013	JT-MW-05 JT-MW-05_112513 M2333-02 MITKEM M2333 WATER 11/25/2013 1/13/2014
CAS NO.	COMPOUND	UNITS:				
	PESTICIDES					
309-00-2	ALDRIN	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
319-84-6	ALPHA BHC	ug/L	0.05 U	0.05 U	0.051 J	0.11
959-98-8	ALPHA ENDOSULFAN	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
5103-71-9	ALPHA-CHLORDANE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
319-85-7	BETA BHC	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
33213-65-9	BETA ENDOSULFAN	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
5103-74-2	BETA-CHLORDANE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
319-86-8	DELTA BHC	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
60-57-1	DIELDRIN	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8	ENDOSULFAN SULFATE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8	ENDRIN	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
7421-93-4	ENDRIN ALDEHYDE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
53494-70-5	ENDRIN KETONE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
58-89-9	GAMMA BHC (LINDANE)	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
76-44-8	HEPTACHLOR	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
1024-57-3	HEPTACHLOR EPOXIDE	ug/L	0.05 U	0.05 U	0.05 U	0.05 U
72-43-5	METHOXYCHLOR	ug/L	0.5 U	0.5 U	0.5 U	0.5 U
72-54-8	P,P'-DDD	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
72-55-9	P,P'-DDE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
50-29-3	P,P'-DDT	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
8001-35-2	TOXAPHENE	ug/L	5 U	5 U	5 U	5 U
v	PCBs					
12674-11-2	PCB-1016 (AROCLOR 1016)	ug/L	1 U	1 U	1 U	1 U
11104-28-2	PCB-1221 (AROCLOR 1221)	ug/L	1 U	1 U	1 U	1 U
11141-16-5	PCB-1232 (AROCLOR 1232)	ug/L	1 U	1 U	1 U	1 U
53469-21-9	PCB-1242 (AROCLOR 1242)	ug/L	1 U	1 U	1 U	1 U
12672-29-6	PCB-1248 (AROCLOR 1248)	ug/L	1 U	1 U	1 U	1 U
11097-69-1	PCB-1254 (AROCLOR 1254)	ug/L	1 U	1 U	1 U	1 U
11096-82-5	PCB-1260 (AROCLOR 1260)	ug/L	1 U	1 U	1 U	1 U
37324-23-5	PCB-1262 (AROCLOR 1262)	ug/L	1 U	1 U	1 U	1 U
11100-14-4	PCB-1268 (AROCLOR 1268)	ug/L	1 U	1 U	1 U	1 U
	INORGANICS					
7429-90-5	ALUMINUM	ug/L	196 J	161 J	196 J	200 U
7440-36-0	ANTIMONY	ug/L	20 U	20 U	20 U	20 U
7440-38-2	ARSENIC	ug/L	5.2 J	20 U	7.9 J	11.7 J
7440-39-3	BARIUM	ug/L	174 J	171 J	350	336
7440-41-7	BERYLLIUM	ug/L	5 U	5 U	5 U	5 U
7440-43-9	CADMIUM	ug/L	5 U	5 U	5 U	5 U
7440-70-2	CALCIUM	ug/L	150000	153000	132000	135000
7440-47-3	CHROMIUM, TOTAL	ug/L	3.8 J	0.75 J	20 U	20 U
7440-48-4	COBALT	ug/L	50 U	50 U	0.89 J	50 U
7440-50-8	COPPER	ug/L	3.8 J	30 U	30 U	30 U
7439-89-6	IRON	ug/L	375	189 J	2310	5150
7439-92-1	LEAD	ug/L	4.8 J	10 U	10 U	10 U
7439-95-4	MAGNESIUM	ug/L	31400	32700	28500	26800
7439-96-5	MANGANESE	ug/L	537	273	4190	2680
7439-97-6	MERCURY	ug/L	0.2 U	0.2 U	0.2 U	0.2 U
7440-02-0	NICKEL	ug/L	1.2 J	0.88 J	1.3 J	1.4 J
7440-09-7	POTASSIUM	ug/L	5250	6980 J	6360	6020 J
7782-49-2	SELENIUM	ug/L	30 U	30 U	30 U	30 U
7440-22-4	SILVER	ug/L	30 U	30 U	30 U	30 U
7440-23-5	SODIUM	ug/L	224000	222000	263000	262000
7440-28-0	THALLIUM	ug/L	20 U	20 U	20 U	20 U
7440-62-2	VANADIUM	ug/L	50 U	50 U	50 U	50 U
7440-66-6	ZINC	ug/L	50 U	50 U	6.2 J	50 U
57-12-5	CYANIDE	ug/L	20 U	20 U	125	66.6

NYSDEC-Former Jamestown MGP Site 2013 Site Investigation Validated Quality Control Data		Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	FIELDQC TB M1261-04 MITKEM M1261 WATER 7/24/2013 9/3/2013	FIELDQC TB-112513 M2333-07 MITKEM M2333 WATER 11/25/2013 1/13/2014	FIELDQC TB-A M1279-05 MITKEM M1279 WATER 7/25/2013 9/3/2013	FIELDQC TB-B M1261-08 MITKEM M1261 WATER 7/25/2013 9/3/2013
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
71-55-6	1,1,1-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
79-00-5	1,1,2-TRICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
75-34-3	1,1-DICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
75-35-4	1,1-DICHLOROETHENE	ug/L	1 U	1 U	1 U	1 U
563-58-6	1,1-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U
87-61-6	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 UJ	1 U	1 U
96-18-4	1,2,3-TRICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
120-82-1	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 UJ	1 U	1 U
95-63-6	1,2,4-TRIMETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
106-93-4	1,2-DIBROMOETHANE	ug/L	1 U	1 U	1 U	1 U
95-50-1	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
107-06-2	1,2-DICHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
78-87-5	1,2-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
108-67-8	1,3,5-TRIMETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U
541-73-1	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
142-28-9	1,3-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
106-46-7	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
123-91-1	1,4-DIOXANE (P-DIOXANE)	ug/L	100 U	100 U	100 U	100 U
594-20-7	2,2-DICHLOROPROPANE	ug/L	1 U	1 U	1 U	1 U
95-49-8	2-CHLOROTOLUENE	ug/L	1 U	1 U	1 U	1 U
591-78-6	2-HEXANONE	ug/L	5 U	5 U	5 U	5 U
106-43-4	4-CHLOROTOLUENE	ug/L	1 U	1 U	1 U	1 U
67-64-1	ACETONE	ug/L	5 U	R	5 U	5 U
71-43-2	BENZENE	ug/L	1 U	1 U	1 U	1 U
108-86-1	BROMOBENZENE	ug/L	1 U	1 U	1 U	1 U
74-97-5	BROMOCHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
75-27-4	BROMODICHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
75-25-2	BROMOFORM	ug/L	1 U	1 UJ	1 U	1 U
74-83-9	BROMOMETHANE	ug/L	1 U	1 U	1 U	1 U
75-15-0	CARBON DISULFIDE	ug/L	1 U	1 U	1 U	1 U
56-23-5	CARBON TETRACHLORIDE	ug/L	1 U	1 U	1 U	1 U
108-90-7	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U
75-00-3	CHLOROETHANE	ug/L	1 U	1 U	1 U	1 U
67-66-3	CHLOROFORM	ug/L	1 U	1 U	1 U	1 U
74-87-3	CHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/L	1 U	1 U	1 U	1 U
10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U
99-87-6	CYMENE	ug/L	1 U	1 U	1 U	1 U
124-48-1	DIBROMOCHLOROMETHANE	ug/L	1 U	1 U	1 U	1 U
74-95-3	DIBROMOMETHANE	ug/L	1 U	1 U	1 U	1 U
75-71-8	DICHLORODIFLUOROMETHANE	ug/L	1 U	1 UJ	1 U	1 U
1330-20-7	DIMETHYL BENZENE	ug/L	1 U	1 U	1 U	1 U
100-41-4	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U
74-88-4	IODOMETHANE	ug/L	1 U	1 UJ	1 U	1 U
98-82-8	ISOPROPYLBENZENE	ug/L	1 U	1 U	1 U	1 U
179601-23-1	m,p-Xylene	ug/L	1 U	1 U	1 U	1 U
78-93-3	METHYL ETHYL KETONE	ug/L	5 U	R	5 U	5 U
108-10-1	METHYL ISOBUTYL KETONE	ug/L	5 U	5 U	5 U	5 U
75-09-2	METHYLENE CHLORIDE	ug/L	1 U	1 U	1 U	1 U
104-51-8	N-BUTYLBENZENE	ug/L	1 U	1 U	1 U	1 U
103-65-1	N-PROPYLBENZENE	ug/L	1 U	1 U	1 U	1 U
95-47-6	O-XYLENE	ug/L	1 U	1 U	1 U	1 U
135-98-8	SEC-BUTYLBENZENE	ug/L	1 U	1 U	1 U	1 U
100-42-5	STYRENE	ug/L	1 U	1 U	1 U	1 U
98-06-6	T-BUTYLBENZENE	ug/L	1 U	1 U	1 U	1 U
75-65-0	TERT-BUTYL ALCOHOL	ug/L	10 U	10 U	10 U	10 U
1634-04-4	TERT-BUTYL METHYL ETHER	ug/L	1 U	1 U	1 U	1 U
127-18-4	TETRACHLOROETHYLENE	ug/L	1 U	1 U	1 U	1 U
108-88-3	TOLUENE	ug/L	1 U	1 U	1 U	1 U
156-60-5	TRANS-1,2-DICHLOROETHENE	ug/L	1 U	1 U	1 U	1 U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/L	1 U	1 U	1 U	1 U
79-01-6	TRICHLOROETHYLENE (TCE)	ug/L	1 U	1 U	1 U	1 U
75-69-4	TRICHLOROFLUOROMETHANE	ug/L	1 U	1 U	1 U	1 U
108-05-4	VINYL ACETATE	ug/L	1 U	1 U	1 U	1 U
75-01-4	VINYL CHLORIDE	ug/L	1 U	1 U	1 U	1 U

APPENDIX C

GEOPHYSICAL INVESTIGATION REPORTS

NYLD Infrastructure Field Report

NEW YORK LEAK DETECTION, INC.

Date: 10/20/2015 Technician: Mark Manzari

Customer: Parsons Engineering of New York, Inc.

Site Address: Former MGP Site – Site ID 907036, 208 East First Street, Jamestown, NY 14701

Contact Person: Ellen Paccia Phone: 315-418-7801 field cell

Scope of Work: utility location

Type of Service:

☐ *Leak Detection* ☒ *Utility Location/GPR* ☐ *Video Inspection*

☐ *Infrastructure Assessment* ☐ *Utility Mapping/AutoCAD*

Type of Equipment Used

☐ *Profiler EMP 400* ☐ *RD4000* ☒ MetroTech Vivax vLocPro2

☐ *LC2500 Leak Correlator* ☐ *Noggin 250 mHz* ☐ PosiTector UTG G3

☐ *S-30 Surveyor* ☒ Noggin 500 mHz ☐ *Video Inspection Camera*

☐ *Sonde* ☐ Conquest 1000 mHz ☐ *Helium #* *Bottles*

☐ *Leica Robotic Total Station* ☐ *Leica GPS*

Marking Used

☒ *Paint* ☐ *Flags* ☐ *Chalk*

☐ *Updated existing maps onsite* ☐ *Other:* _____

Instructions from Onsite Contact:

Clear utilities for 10 soil boring locations and 1 test pit excavation location (see attached map)

Ground Cover/Weather Conditions: gravel / sunny 65 degrees

Information Transfer

☒ *Information relayed on site to:* ☐ *Hand drawn map (forward to office for digital remake)* ☐ *All markings picked up by surveyors*

Ellen Paccia

NYLD Infrastructure Field Report

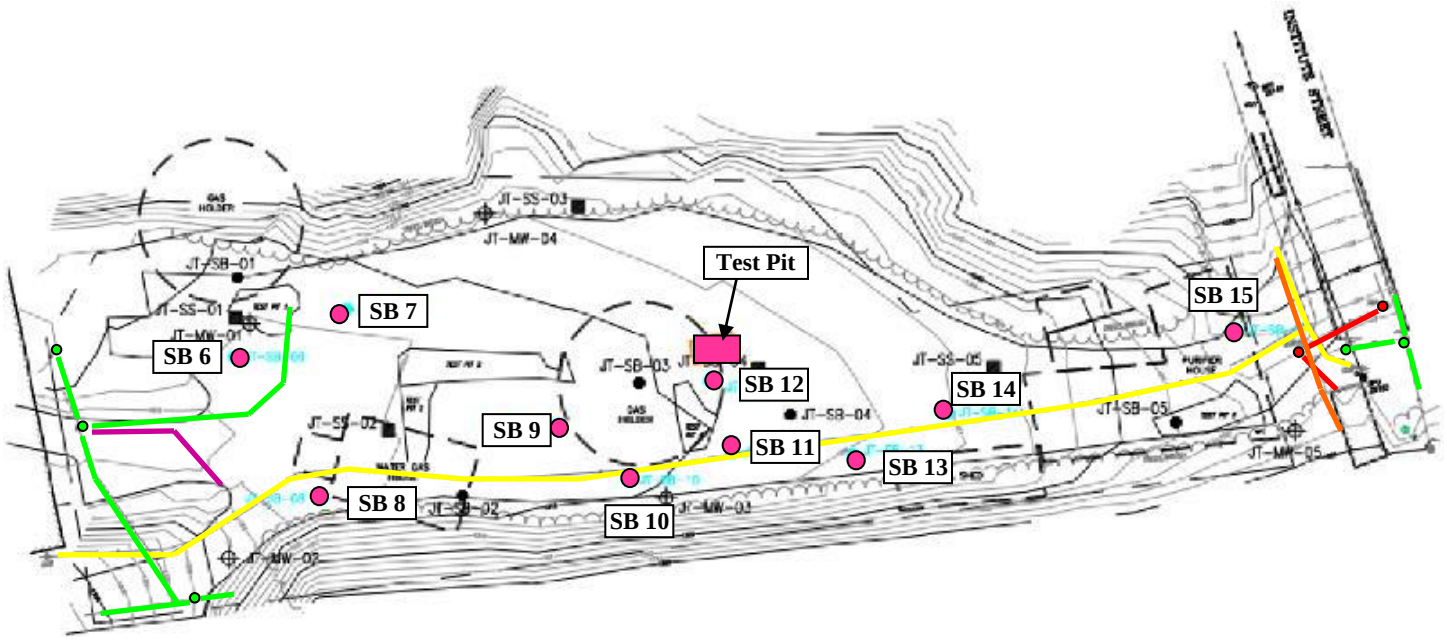
NEW YORK LEAK DETECTION, INC.

Key

Blue	Water
Red	Power
Orange	Communications
Yellow	Gas/Flammable Fuel
Purple	Unknown
Green	Storm/Sanitary

Notes/Testing Results:

10 soil boring locations and 1 test pit location cleared for drilling and excavating. See the drawing below for notes and utilities identified during the investigation. Since all mark-outs are in a gravel driveway, Ellen Paccia of Parsons took notes and measurements to reproduce adjusted boring locations. Boring locations were identified in the field with mag nails and pink ribbon set by Fisher Associates utilizing survey equipment. Adjusted boring locations were identified with utility marking paint.



SB 15 – staked location clear – 10 feet plus ~ from gas line
SB 14 – adjusted 3 feet north of staked location – now 6 feet ~ clear of gas
SB 13 – staked location clear – 6 feet ~ from gas line
SB 12 – staked location clear
SB 11 – adjusted 6 feet south of staked location – now 6 feet ~ clear of gas
SB 10 – adjusted 4 feet south of staked location – now 6 feet ~ clear of gas
SB 09 – staked location clear
SB 08 – staked location clear – 8 feet ~ from gas line
SB 07 – staked location clear – 15 feet ~ from 4 inch drain tile
SB 06 – staked location clear – 14 feet ~ from 4 inch drain tile
Test Pit – staked location clear

NYLD Infrastructure Field Report

NEW YORK LEAK DETECTION, INC.

Date: 6/17/13 - 6/18/13 Technician: Joe Goodfellow

Customer: Parsons

Site Address: 208 East First St. Jamestown, N.Y.

Contact Person: Dan Chamberlain Phone: 716-829-9663 Phone: _____

Scope of Work: _____

Type of Service:

☐ *Leak Detection* ☒ *Utility Location/GPR* ☐ *Video Inspection*

☐ *Infrastructure Assessment* ☐ *Utility Mapping/AutoCAD*

Type of Equipment Used

☐ *Profiler EMP 400* ☐ *RD4000* ☒ MetroTech Vivax vLocPro2

☐ *LC2500 Leak Correlator* ☐ *Noggin 250 mHz* ☐ PosiTector UTG G3

☐ *S-30 Surveyor* ☒ Noggin 500 mHz ☐ *Video Inspection Camera*

☐ *Sonde* ☐ Conquest 1000 mHz ☐ *Helium # Bottles*

☐ *Leica Robotic Total Station* ☐ *Leica GPS*

Marking Used

☒ *Paint* ☐ *Flags* ☐ *Chalk*

☐ *Updated existing maps onsite* ☐ *Other:* _____

Instructions from Onsite Contact: Clear Area

Size of Pipe: _____

Notes/Testing Results: 6/17/13 - Back parking lot and loading dock area - some storm drain lines near building, located main gas service along south side of parking lot in area where borings and excavation was going to take place. 6/18/13 - Finished scanning parking lot, located buried manhole at entrance. It contained fiber and telephone lines. These lines stay in street. Surveyors on site picking up locations. See attached.

Information Transfer

☒ *Information relayed on site to: Dan Chamberlain* ☐ *Hand drawn map (forward to office for digital remake)* ☒ *All markings picked up by surveyors*


East First St.
Fiber & tele. manhole
Gas Service

APPENDIX D

TOPOGRAPHICAL SURVEY INFORMATION

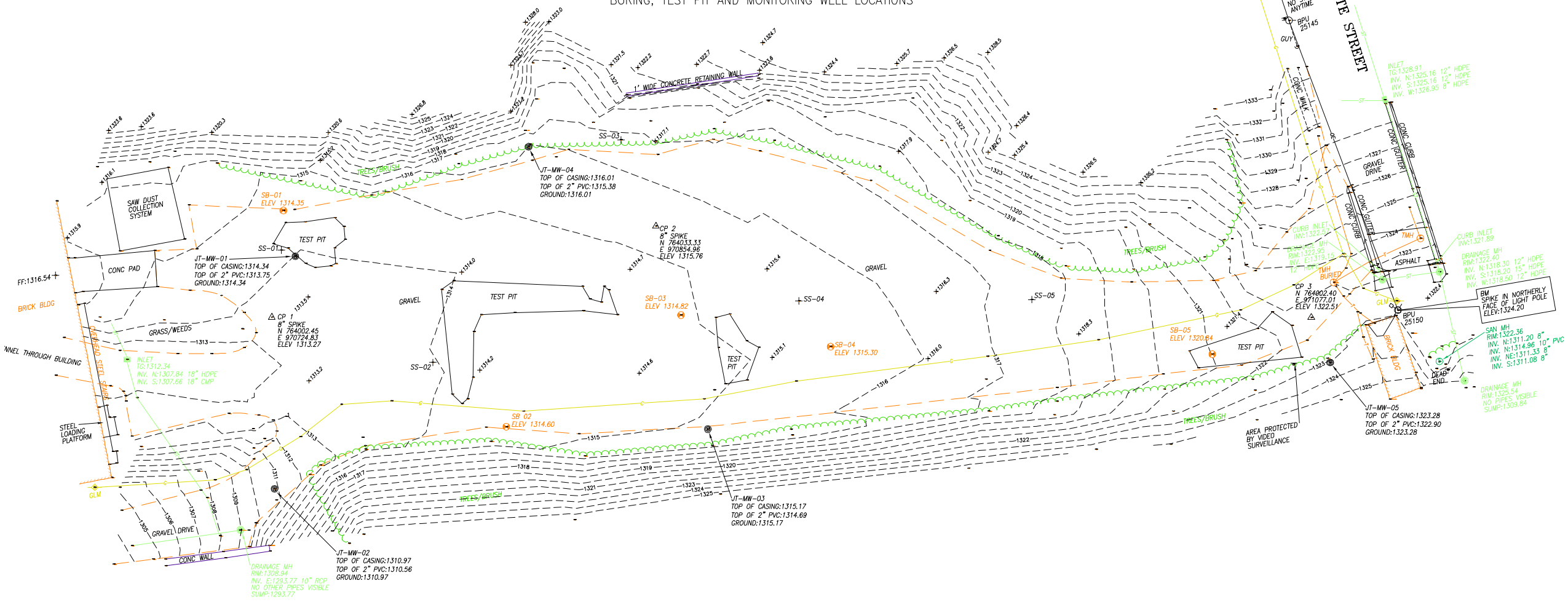
SURVEY MAPPING FOR THE
INVESTIGATION ACTIVITIES OF
THE FORMER JAMESTOWN MGP SITE
TOWN OF JAMESTOWN
CHAUTAUQUA COUNTY, NY

NYSDEC STANDBY CONTRACT WORK RFP 447950-20002

TOPOGRAPHIC SURVEY MAP

FA PROJECT #132024
JULY 15, 2013

REVISED JULY 30, 2013 TO SHOW AS-BUILT SOIL
BORING, TEST PIT AND MONITORING WELL LOCATIONS



FISHERASSOCIATES
195 Calkins Road, Rochester, NY 14623

20 0 20 40
SCALE: 1" = 20'

SURVEY NOTE 1

LEGEND

- PROPERTY LINE/LEASE PARCEL LINE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- BUILDING LINE
- FENCE LINE
- EDGE OF WATER, STREAM OR DITCH
- EDGE OF WOODS, BRUSH OR LAWN
- SA — SANITARY SEWER LINE W/MANHOLE & C.O.
- ST — STORM SEWER LINE W/MANHOLE & CATCH BASIN
- W — WATER LINE W/HYDRANT, VALVE & VAULT
- E — UNDERGROUND ELECTRIC LINE W/PULLBOX, METER & MANHOLE
- G — NATURAL GAS LINE W/METER & VALVE
- OE, OT, OC — OVERHEAD ELECTRIC, TELEPHONE & CABLE LINE
- T — UNDERGROUND TELEPHONE LINE
- FO — UNDERGROUND FIBER OPTIC LINE
- H — HEATING LINE (STEAM)
- TS — SIGNAL ARM/HEAD, SIGNAL POLE, PEDESTRIAN POLE & TRAFFIC PULL BOX
- TC — TRAFFIC CONTROL LINE
- UTILITY POLE, GUY, LIGHT POLE & TOP MOUNT LIGHT POLE
- SB-04 — LOCATION OF BORINGS
- MONITOR WELLS

SURVEY NOTES:

1. COORDINATES AND NORTH ORIENTATION SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, TRANSVERSE MERCATOR PROJECTION, NAD 83/96 USING GPS PROCEDURES AND THE NEW YORK STATE DOT CORS NETWORK.

2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 USING GPS PROCEDURES.

3. UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM FIELD LOCATIONS, VISIBLE AT THE TIME OF SURVEY AND MARKS BY AN UNDERGROUND UTILITY LOCATING COMPANY. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOULD BE STAKED BY THE RESPECTIVE UTILITY COMPANY PRIOR TO ANY CONSTRUCTION.

APPENDIX E

BORING AND WELL CONSTRUCTION LOGS

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER 447950.02100

BORING/ WELL NO. Sheet 1 of 1

Location Description: JT-SB-06
North West corner of the site, in front of the loading dock.

Location Coordinates
Northing: 764011.9692'
Easting: 970727.5850'
Elevation 1313.72'

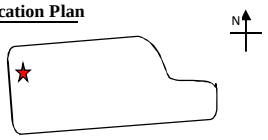
Visual Impact Summary
No visual impacts observed.

Weather: 48 to 62 degrees, breezy, plenty of sun

Date/Time Start: 11/2/15 @ 11:00

Date/Time Finish: 11/2/15 @ 12:20

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0					Hand cleared to 5'. Advanced augers to 6 ft and began sampling.	
1						
2						
3						
4						
5						
6						
7		wr, wh, wh, 1	3	2.3	Wet, soft, gray brown, CLAYEY SILT, little coarse, medium, fine sand, trace medium and coarse gravel, trace organics.	
8						
9		3, 3, 2, 2	2	1.7	Wet, soft, gray brown, CLAYEY SILT and medium and coarse GRAVEL, little coarse, medium, fine sand, trace organics.	
10						
11		3, 4, 3, 3	10	1	Moist, medium stiff, dark brown, SILT, little coarse, medium, fine sand and coarse to medium gravel, trace clay, trace red brick fragments.	
12						
13		3, 4, 3, 20	8	1.4	Moist, medium stiff, dark brown, SILT and medium to coarse GRAVEL, little coarse, medium, fine sand, trace clay and red brick fragments, trace organics, bottom 2" woody organic plug.	
14						
15		1, 1, 1, 0	3	2.2	Wet, very loose, dark gray brown, medium and coarse GRAVEL, little coarse, medium, fine sand.	
16						
17	JT-SB-06(16-18)	4, 1, 1, 1	12	2.5	Wet, soft, light brown, CLAY, little silt.	
18						
19		1, 2, 1, 1	4	1.1	Wet, soft, light gray, CLAY, little coarse and medium gravel, trace coarse, medium, fine sand and organics.	
20						
21		5, 3, 2, 2	12	1.1	Wet, medium stiff, gray, CLAY, little silt, trace medium gravel and coarse, medium, fine sand at top.	
22						
23	JT-SB-06(22-24)	6, 8, 9, 8	10	1.2	Dry, stiff, gray, CLAY, little silt.	
24						
25					End boring at 24'	
26						
27						
28						
29						
30						

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
Background PID reading 0.5-0.6 ppm
Confining layer at 22 ft.

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER 447950.02100

BORING/ WELL NO. Sheet 1 of 1

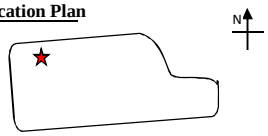
Location Description: JT-SB-07
North West corner of the site, near dumpster.

Location Coordinates
Northing: 764028.0835'
Easting: 970775.5857'
Elevation 1314.15'

Visual Impact Summary
No visual impacts observed.

Weather: 39 to 54 degrees, breezy, some sun then clouds
Date/Time Start: 10/27/15 @ 08:00
Date/Time Finish: 10/27/15 @ 10:10

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0					Hand cleared to 5'. Advanced augers to 6 ft and began sampling.	
1						
2						
3						
4						
5						
6						
7		1, 1, 1, 1	3	0.1	Wet, very loose, grayish brown, coarse to medium GRAVEL, little coarse, medium, fine sand, trace silt and clay.	
8						
9		1, 1, 1, 1	4	0.1	Wet, very loose, gray to dark brown, coarse to medium GRAVEL, little coarse, medium, fine sand, trace silt and clay.	
10						
11	JT-SB-07(10-12)	1, 1, 2, 1	4	0.1	Wet, loose, gray to brown, coarse to medium GRAVEL, little silt and clay, trace mf sand.	
12						
13		3, 3, 5, 5	6	0.2	Wet, medium dense, dark gray to brown with red in bottom inch, coarse to medium GRAVEL, little coarse, medium, fine sand, trace silt and clay, brick in bottom inch.	
14						
15		3, 3, 4, 5	18	0.2	Wet, very loose, brown, coarse and medium GRAVEL, little coarse, medium, fine sand, trace silt and clay, trace brick fragments.	
16						
17		3, 3, 2, 2	12	0.2	Wet, medium dense, brown, coarse to medium GRAVEL, little coarse, medium, fine sand, trace silt.	
18						
19		4, 2, 2, 3	4	0.2	Wet, loose, brown to dark brown, cm SAND, some coarse to medium gravel, trace red brick fragments.	
20						
21		2, 2, 3, 5	3	0.2	Wet, loose, brown and red, coarse and medium GRAVEL, some coarse, medium, fine sand, trace silt, brick in last inch, gray clay in cone.	
22						
23		4, 5, 5, 5	0	0.2	Rock in cone.	
24						
25	JT-SB-07(24-26)	4, 5, 5, 5	14	0.2	Moist, medium stiff, gray, CLAY, some silt.	
26						
27		4, 5, 6, 6	2	0.2	Moist, medium stiff, gray, CLAY, some silt.	
28						
29					End boring at 28'	
30						

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
Background PID reading 0.1-0.2 ppm
Confining layer assumed to be at 22 ft. based on adjacent soil boring locations and clay found in sampler at the 20-22 ft. interval.

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER 447950.02100

BORING/ WELL NO. Sheet 1 of 1

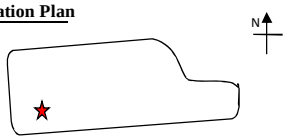
Location Description: JT-SB-08
South West corner of the site, along brush line near entrance to lower road.

Location Coordinates
Northing 763956.7310'
Easting: 970764.7475'
Elevatior 1313.17'

Visual Impact Summary
(6-20') Heavy product coating and sheen with odor - highest PID reading from 12' to 14' of 9.3 ppm. (6-12') Additionally, little brown staining and approximately 1 - 5 mm blebs.

Weather: 49 to 60 degrees, high wind warning, rain
Date/Time Start: 10/28/15 @ 07:50
Date/Time Finish: 10/28/15 @ 09:50

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0					Hand cleared to 2.5'. Obstruction encounter at ~3 ft. Augered to 6 ft past obstruction and began sampling.	
1						
2						
3						
4						
5						
6						
7		1-Ft, 1, 1	10	4.4	Wet, loose, gray, coarse and medium GRAVEL, little silt, trace coarse, medium, fine sand and clay, trace plant debris, sheen, petroleum odor, few approximately 5mm brown blebs.	
8						
9	JT-SB-08(8-10)	wh, wh, wh, 1	6	9	Wet, very loose, metallic gray and brown, coarse and medium GRAVEL, little coarse, medium, fine sand, trace silt and clay, trace plant debris, sheen, strong petroleum odor, little brown staining,	
10						
11		1, 1-Ft, 1	10	4.8	Wet, loose, metallic gray and brown, coarse and medium GRAVEL, little silt, trace coarse, medium, fine sand and clay, sheen, strong petroleum odor, few approximately 1mm blebs, product coating bottom 2 inches.	
12						
13		2, 3, 3, 3	12	9.3	Wet, loose, brown with gray, coarse and medium GRAVEL, little coarse, medium, fine sand and silt, trace clay, strong petroleum odor, heavy brown product coating, sheen.	
14						
15		1, 1-Ft, 1	3	4.4	Wet, loose, light brown, coarse and medium GRAVEL, little clay and silt, trace coarse, medium, fine sand, slight sheen and petroleum odor.	
16						
17		2, 2, 2, 2	4	0.5	Wet, loose, gray and brown, coarse and medium GRAVEL, little silt, trace coarse, medium, fine sand and clay, trace woody and plant organics, slight petroleum odor, slight sheen, one piece of angular coal at top of spoon.	
18						
19		3, 4, 3, 4	6	6.9	Wet, medium dense, gray brown, coarse and medium GRAVEL, little silt, trace coarse, medium, fine sand and clay, petroleum odor, slight sheen especially at top, brown product staining in watery top of spoon.	
20						
21		1, 1, 4, 2	8	0	Wet, medium dense, brown with black in bottom 2 inches, coarse and medium GRAVEL, little silt, trace coarse, medium, fine sand and clay, bottom 2 to 3 inches brown and black clay with silt.	
22						
23		4, 14, 18, 16	10	0	Wet, medium dense, brown with black, coarse and medium GRAVEL, little coarse, medium, fine sand and silt, trace clay, top 2 to 3 inches medium stiff brown and black clay with silt.	
24						
25		8, 11, 7, 2	6	0	Wet, loose to medium dense, brownish gray, coarse and medium GRAVEL, little silt, trace coarse, medium, fine sand and clay.	
26						
27		6, 10, 7, 8	14	0	Wet, medium dense, light brown with little red brown, coarse and medium GRAVEL, little coarse, medium, fine sand and silt, trace clay.	
28						
29	JT-SB-08(28-30)	2, 2, 7, 9	4	0	Wet, loose, light brown, coarse and medium GRAVEL, little coarse, medium, fine sand and silt.	
30						

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
End boring at 30'

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER 447950.02100

BORING/ WELL NO. Sheet 1 of 1

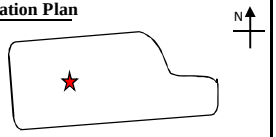
Location Description: JT-SB-09
Middle of the site, SW edge of gas holder location

Location Coordinates
Northing: 763989.0118'
Easting: 970836.0638'
Elevation 1317.57'

Visual Impact Summary
(28-30') Few approximately 1 mm blebs and sheen in bottom 2 inches of interval.

Weather: 39 to 54 degrees, breezy, some sun then clouds
Date/Time Start: 10/27/15 @ 15:20
Date/Time Finish: 10/27/15 @ 17:00

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0 1 2 3 4 5 6					Hand cleared to 5'. Concrete encountered at 2'. Advanced augers to 6 ft and began sampling.	
7 8		2, 1, 1, 0	6	0.2	Wet, very loose, gray, coarse and medium GRAVEL, little cmf sand, trace silt and clay.	
9 10		2, 1, 2, 1	12	0.2	Wet, loose, gray and brown, coarse to medium GRAVEL, little silt, trace cmf sand and clay.	
11 12		wh, 1, 1, 1	12	0.3	Wet, loose, gray to brown, cmf SAND, little medium gravel, trace silt and clay.	
13 14	JT-SB-09(12-14)	1, 1, 1, 1	14	0.4	Wet, very loose, gray to brown, coarse and medium GRAVEL, little cmf sand, trace silt and clay.	
15 16		1, 2, 2, 1	14	0.3	Wet, loose, light gray to brown, coarse and medium GRAVEL, little cmf sand, trace silt and clay.	
17 18		3, 4, 1, 0	5	0.4	Wet, loose, gray to brown, coarse and medium GRAVEL, little cmf sand, trace silt.	
19 20		1-Ft, 1, 1	2	0	Wet, loose, gray to brown, coarse and medium GRAVEL, little cmf sand and silt, trace clay.	
21 22		4, 1, 1, 2	8	0	Wet, loose, gray to light brown, coarse to medium GRAVEL and cmf SAND, little silt, trace clay and brick fragments.	
23 24		4, 1, 1, 4	5	0	Wet, loose, gray brown, medium and coarse GRAVEL, little cmf sand, trace silt, trace brick and wood fragments.	
25 26		4, 8, 9, 11	12	0	Wet, medium dense, gray to light brown, medium and coarse GRAVEL, little cmf sand and silt, trace clay and brick fragments.	
27 28		6, 12, 12, 14	15	0	Moist, dense, gray brown with black at 7 inches, medium and coarse GRAVEL, little cmf sand and silt, trace clay and brick fragments.	
29 30	JT-SB-09(28-30)	9, 16, 11, 12	12	0	Wet to moist, dense, brownish gray, medium and coarse GRAVEL, little cmf sand and silt, trace clay and brick fragments, small brown approximately 1mm bleb and gray metallic sheen in bottom 2 inches of spoon.	

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
End boring at 30'
Background PID reading 0.2-0.3 ppm

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER 447950.02100

BORING/ WELL NO. Sheet 1 of 1

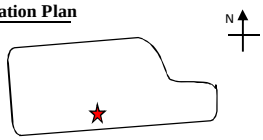
Location Description: JT-SB-10
Middle of the South edge of the site, just S of gas holder location.

Location Coordinates
Northing: 763963.9693'
Easting: 970859.9246'
Elevation 1314.74'

Visual Impact Summary
No visual impacts observed.

Weather: 49 to 60 degrees, high wind warning, rain
Date/Time Start: 10/28/15 @ 10:50
Date/Time Finish: 10/28/15 @ 12:30

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0					Hand cleared to 5'. Advanced augers to 6 ft and began sampling.	
1						
2						
3						
4						
5						
6						
7		2, 1, 1, 1	2	0	Wet, very loose, gray brown, coarse and medium GRAVEL, little clay and coarse, medium, fine sand and silt.	
8						
9		3, 2, 2, 3	14	0	Wet, medium dense, gray brown, coarse and medium GRAVEL, little silt and clay, trace coarse, medium, fine sand, trace brick fragments in bottom 3 inches of spoon.	
10						
11		2, 1, 3, 3	10	0.1	Wet, medium dense, gray brown, SILTY CLAY and coarse to medium GRAVEL, little coarse, medium, fine sand, red brick in middle 3 inches, trace leaf organics in top 2 inches of spoon.	
12						
13		3, 2, 3, 3	0		No recovery.	
14						
15		1, 2, 2, 3	4	0	Wet, very loose, gray brown, coarse and medium GRAVEL, little coarse, medium, fine sand.	
16						
17	JT-SB-10(16-18)	3, 4, 2, 5	6	0	Wet, very loose, gray to brown, coarse and medium GRAVEL, little coarse, medium, fine sand.	
18						
19		2, 3, 4, 3	3	0	Wet, very loose, brown and black and gray and red, coarse and medium GRAVEL, trace coarse, medium, fine sand.	
20						
21		5, 3, 3, 2	12	0	Wet, medium dense, brown, coarse and medium GRAVEL, little coarse, medium, fine sand, trace silt, bottom 2 inches gray silty clay with little medium gravels.	
22						
23		3, 2, 2, 5	5	0	Wet, medium dense, dark gray and brown, coarse and medium GRAVEL, little silty clay, trace coarse, medium, fine sand, woody organics in bottom 2 to 3 inches of spoon.	
24						
25		1, 2, 5, 14	8	0	Moist, medium dense, dark gray with black, coarse and medium GRAVEL, little woody organics, little coarse, medium, fine sand, top 3 inches gray and black silty clay.	
26						
27		8, 9, 10, 8	13	0	Wet, dense, light gray grading to brownish gray grading to light yellowish brown, coarse and medium GRAVEL, little coarse, medium, fine sand, trace silt, top 3 inches light gray silty clay, woody organics from 4-5 inches.	
28						
29	JT-SB-10(28-30)	17, 14, 15, 15	12	0	Moist, dense, gray grading to light yellowish brown with red, coarse and medium GRAVEL, little coarse, medium, fine sand, trace silt and clay in lower half of spoon.	
30						

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
End boring at 30'

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER: 447950.02100

BORING/ WELL NO. Sheet 1 of 1

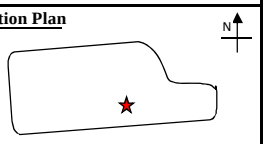
Location Description: JT-SB-11
Middle of the South edge of the site, S of test pit area.

Location Coordinates
Northing: 763973.9613'
Easting: 970894.8323'
Elevation 1315.01'

Visual Impact Summary
(20-30') Strong odor, sheen, few approximately 2 mm blebs, and coating with highest PID reading from 24' to 26' of 11.6 ppm.

Weather: 49 to 60 degrees, high wind warning, rain
Date/Time Start: 10/28/15 @ 15:10
Date/Time Finish: 10/28/15 @ 17:15

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0					Hand cleared to 5'. Advanced augers to 6 ft and began sampling.	
1						
2						
3						
4						
5						
6						
7		29, 5, 2, 1	8	0	Wet, loose, dark gray to red bottom 3 inches, coarse and medium GRAVEL, little coarse, medium, fine sand, bottom 3 inches all red brick fragments and pieces.	
8						
9		2, 1, 1, 1	8	0	Wet, loose, red, Brick Fragments.	
10						
11		3, 1, 3, 4	10	0	Wet, loose, brown to dark brown, coarse and medium GRAVEL, little coarse, medium, fine sand and silt, trace red brick fragments.	
12						
13		2, 2, 3, 4	9	0	Wet, loose, brown to dark brown, coarse and medium GRAVEL, little coarse, medium, fine sand and silt, trace red brick fragments.	
14						
15		3, 2, 1, 1	3	0	Wet, loose, dark brown, coarse and medium GRAVEL, little coarse, medium, fine sand and woody organics, trace red brick fragments.	
16						
17		1, wh, wh, wh	8	0	Wet, very loose, dark gray brown, coarse and medium GRAVEL, little coarse, medium, fine sand, trace red brick fragments.	
18						
19		wh, wh, wh, wh	10	0	Wet, very loose, brown, coarse and medium GRAVEL, little coarse, medium, fine sand and red brick fragments, one 3.5 inch piece of wood.	
20						
21		wh, wh, wh, wh	3	0	Wet, very loose, dark brown, medium GRAVEL, trace coarse, medium, fine sand and red brick fragments, slight petroleum odor, slight sheen.	
22						
23		2, 50/0.2 ft	12	1.1	Wet, loose, brown, medium and coarse GRAVEL, trace coarse, medium, fine sand and red brick fragments, strong petroleum odor, sheen, few approximately 2mm blebs, coating.	Sampler refusal
24						
25	JT-SB-11(24-25.1)	5, 7, 50/0.1 ft	7	11.6	Wet, loose to dense, black to tan gray, medium GRAVEL, little coarse, medium, fine sand and red brick fragments, strong petroleum odor, metallic sheen throughout, concrete in cone.	Sampler refusal
26						
27		4, 5, 8, 10	6	0	Wet, medium dense, brownish gray, coarse and medium angular GRAVEL, little clayey silt, trace coarse, medium, fine sand, trace brown staining.	
28						
29	JT-SB-11(28-30) + MS/MSD	14, 14, 14, 10	15	3	Wet, medium dense, brown, coarse and medium GRAVEL, little coarse, medium, fine sand, trace silt and red brick fragments, slight odor, little sheen and staining.	
30						

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
End boring at 30'

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER 447950.02100

BORING/ WELL NO. Sheet 1 of 1

Location Description: JT-SB-12
Middle of site, next to South border of test pit 6.

Location Coordinates
Northing: 764004.0224'
Easting: 970887.0996'
Elevation 1314.89'

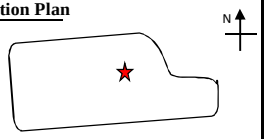
Visual Impact Summary
(6-10') Little purifier waste.
(22-24') Sheen and few approximately 5 mm blebs.

Weather: 39 to 47 degrees, windy, clouds and rain yielding to sun

Date/Time Start: 10/30/15 @ 08:00

Date/Time Finish: 10/30/15 @ 10:15

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0					Hand cleared to 3'. Obstruction encountered at ~3 ft. Advanced augers past obstruction to 6 ft and began sampling.	
1						
2						
3						
4						
5						
6						
7		wh, 6, 14, 14	14	0.1	Dry, stiff, dark brownish gray and blue, coarse, medium, fine SAND, little blue and whitish blue purifier waste.	
8						
9	JT-SB-12(8-10)	2, 14, 35, 18	14	12.2	Dry, stiff, dark brownish gray and grayish blue, coarse, medium, fine SAND, little blue and whitish blue purifier waste, trace coarse and medium gravel, trace woody organics, odor.	
10						
11		4, 1,0, 1	7	0.4	Wet, loose, dark brown, medium and coarse GRAVEL, little coarse, medium, fine sand, trace red brick fragments.	
12						
13		wh, wh, wh, wh	8	0.6	Wet, loose, dark gray brown, medium and coarse GRAVEL, little coarse, medium, fine sand, trace red brick fragments.	
14						
15		wr, wr, wh, wh	1	10.8	Wet, very soft, gray, SILT, little coarse, medium, fine sand, trace clay.	
16						
17		wh, wh, wh, wh	2	1	Wet, very soft, dark gray to gray, SILT and CLAY, little coarse, medium, fine sand, trace medium gravel.	
18						
19		wh, wh, wh, wh	4	3.7	Wet, soft, dark grayish brown, SILTY CLAY, little coarse, medium, fine sand, trace medium gravel, trace red brick fragments in top 2 inches.	
20						
21		1, wh, wh, 1	17	0.6	Wet, very soft grading to soft, brownish gray grading to gray brown, SILTY CLAY, trace coarse, medium, fine sand, trace medium gravel.	
22						
23		4, 50/0.0 Ft	1	23.2	Wet, loose, red and white and dark gray brown, coarse and medium BRICK FRAGMENTS, little coarse, medium, fine sand and fibrous woody organics, trace medium and coarse gravel, few approximately 5mm blebs, sheen.	Sampler refusal
24						
25	JT-SB-12(24-24.3)	50/0.25 ft	3	2.6	Wet, soft, gray brown, SILTY CLAY and BRICK, little coarse, medium, fine sand.	Sampler refusal
26						

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
End boring at 24.3 Ft - See field notes
Background PID reading 0.1 - 0.4 ppm

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER 447950.02100

BORING/ WELL NO. Sheet 1 of 1

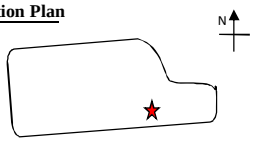
Location Description: JT-SB-13
East of center on the South edge of the site.

Location Coordinates
Northing: 763976.1171'
Easting: 970938.2243'
Elevation 1315.70'

Visual Impact Summary
No visual impacts observed.

Weather: 50 to 51 degrees, windy, scattered showers
Date/Time Start: 10/29/15 @ 08:25
Date/Time Finish: 10/29/15 @ 10:15

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0					Hand cleared to 4.6'. Advanced augers to 6 ft and began sampling.	
1						
2						
3						
4						
5						
6						
7		7, 4, 3, 1	10	0	Wet, loose, dark gray brown, medium and coarse GRAVEL, little coarse, medium, fine sand, trace organics.	
8						
9		2, 2, 1, 2	5	0	Wet, very loose, dark gray brown, medium and coarse GRAVEL, little coarse, medium, fine sand, trace organics.	
10						
11		2, 2, 2, 2	0		No recovery.	
12						
13		2, 3, 3, 3	5	0	Wet, loose, dark gray brown with tan, medium and coarse GRAVEL, little coarse, medium, fine sand, trace red brick fragments.	
14						
15		wr, wr, 1, 1	2	0	Wet, loose, dark gray brown, medium and coarse GRAVEL, little coarse, medium, fine sand, trace silt.	
16						
17		1, 3, 6, 3	6	0	Wet, medium dense, dark gray, medium and coarse GRAVEL, little coarse, medium, fine sand and silt, trace clay.	
18						
19	JT-SB-13(18-20)	2, 2, 1, 2	6	4.4	Wet, very loose, brown and dark gray, medium and coarse GRAVEL, little coarse, medium, fine sand.	
20						
21		1, 3, 1, 4	10	0.7	Wet, medium stiff, dark gray, SILTY CLAY, trace fibrous organics.	
22						
23	JT-SB-13(22-24) + Dup	wh, wh, wh, wh	15	0	Wet, soft, grayish brown, CLAY, little silt.	
24						

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
End boring at 24 Ft

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER 447950.02100

BORING/ WELL NO. Sheet 1 of 1

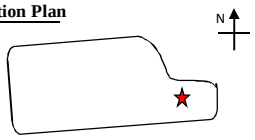
Location Description: JT-SB-14
Eastern half of the site, in the middle of the entrance road.

Location Coordinates
Northing: 763996.7059'
Easting: 970967.2987'
Elevation: 1316.58'

Visual Impact Summary
(8-20') Sheen and odor (no PID hits).

Weather: 50 to 51 degrees, windy, scattered showers
Date/Time Start: 10/29015 @ 13:15
Date/Time Finish: 10/29/15 @ 15:00

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0 1 2 3 4 5 6					Hand cleared to 5'. Advanced augers to 6 ft and began sampling.	
7 8		5, 4, 3, 2	3	0	Wet, loose, dark brown, coarse and medium GRAVEL, little coarse, medium, fine sand.	
9 10		2, 2, 1, 1	6	0	Wet, loose, dark brown, coarse and medium GRAVEL, little coarse, medium, fine sand, trace fibrous organics, slight odor, slight metallic sheen.	
11 12		2, 2, 1, 1	8	0	Wet, very loose, dark brown grading to black, coarse and medium GRAVEL, little coarse, medium, fine sand, trace red brick fragments, piece of wood and piece of metal 3 inches from top, heavy sheen.	
13 14	JT-SB-14(12-14)	1, 1, 0, 0	5	0	Wet, very loose, dark gray brown, coarse and medium GRAVEL, little sand, trace woody organics, petroleum odor, metallic sheen.	
15 16		1, 1, 1-Ft	1	0	Wet, very loose, dark gray brown, medium GRAVEL, little coarse, medium, fine sand, trace coarse gravel, slight sheen.	
17 18		1, 1, 1-Ft	4	0	Wet, loose, dark brown, medium GRAVEL, little coarse, medium, fine sand, trace coarse gravel and fine bits of coal, trace fibrous organics, slight sheen, slight petroleum odor.	
19 20		1, 1, 1, 1	2	0	Wet, very loose, brown to dark brown, coarse, medium, fine SAND, trace coarse and medium gravel and red brick fragments, slight metallic sheen.	
21 22		WH, WH, 1, 1	4	0	Wet, loose, gray brown, medium and coarse GRAVEL, little coarse, medium, fine sand, brown silty clay with little black woody organic fragments 2.5 to 3.5 inches from top, trace red brick fragments.	
23 24		3, 4, 1, 0	8	0	Wet, loose, dark brown, coarse and medium GRAVEL, little coarse, medium, fine sand, trace red brick fragments.	
25 26		14, 12, 10, 8	6	0	Dry to moist, medium dense, brown and light greenish tan, coarse and medium GRAVEL, little silty clay, trace coarse, medium, fine sand, one coarse piece of red brick.	
27 28		14, 10, 8, 5	12	0	Top 6 inches- Wet, medium stiff, dark brown grading to black, SILTY CLAY, trace coarse, medium, fine sand and red brick fragments, trace woody organics. Bottom 6 inches- Wet, medium dense, gray brown, coarse and medium GRAVEL, little silty clay and coarse, medium, fine sand.	
29 30	JT-SB-14(28-30)	3, 3, 3, 5	10	0	Wet, medium stiff, light gray, CLAY.	

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
End boring at 30 Ft

Contractor: Geologic
Driller: Steve Laramee
Inspector: Ellen Paccia
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Former Jamestown MGP
PROJECT NUMBER 447950.02100

BORING/ WELL NO. Sheet 1 of 1

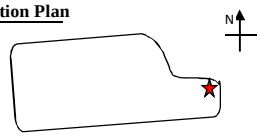
Location Description: JT-SB-15
Location furthest East, on grassy North curb of the site entrance.

Location Coordinates
Northing: 764029.0197'
Easting: 971063.6260'
Elevation 1324.29'

Visual Impact Summary
No visual impacts observed.

Weather: 50 to 51 degrees, windy, scattered showers
Date/Time Start: 10/29/15 @ 16:10
Date/Time Finish: 10/29/15 @ 17:20

Location Plan



Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0					Hand cleared to 5'. Advanced augers to 6 ft and gegan sampling.	
1						
2						
3						
4						
5						
6						
7		1, 1, 0, 1	6	0	Dry, very loose, black and red brown grading to brown grading to tan and brown, coarse and medium GRAVEL, little coarse, medium, fine sand, little ash, trace coal and glass fragments.	
8						
9		1, 1, 2, 2	4	0	Dry, very loose, brown and red with little tan, coarse, medium, fine SAND, little coal pieces and ash, little coarse and medium gravel, little red brick fragments.	
10						
11		1, 1, 2, 1	2	0	Wet, very loose, gray brown, coarse and medium GRAVEL, trace coarse, medium, fine sand and woody organics	
12						
13		1, 0, 1, 0	3	0	Wet, very loose, brown, coarse and medium GRAVEL, little coarse, medium, fine sand, trace red brick fragments and coal pieces, trace clay and silt.	
14						
15		1, 1, 1, 1	8	0	Wet, medium stiff, light brown, CLAY and SILT, trace red brick fragments and medium gravel.	
16						
17		2, 2, 4, 4	12	0	Wet, medium stiff, light greenish gray grading to dark gray and black, CLAY and SILT, trace medium gravel, black fibrous woody organic lense bottom 2 inches.	
18						
19		2, 2, 2, 2	6	0	Wet, soft to medium stiff, light greenish gray and black, CLAY and SILT, little medium gravel.	
20						
21		2, 2, 2, 2	6	0	Wet, soft, light greenish gray grading to brown, SILT, little clay, little mf sand, trace brick fragments and woody organics, one large red brick piece 2 inches from top.	
22						
23	JT-SB-15(22-24)	4, 4, 3, 3	12	0	Wet, soft to medium stiff, light gray grading to brown, SILT, little medium and coarse gravel, little clay, trace red brick fragments, trace mf sand.	
24						
25		1, 2, 3, 4	15	0	Wet, soft to very soft, dark gray to brown, SILT and MF SAND, trace red brick fragments, trace clay, trace organics in top 2 inches.	
26						
27		2, 3, 3, 4	15	0	Wet, medium stiff, brown, SILT and MF SAND, trace clay, large piece of red brick 6 inches from top, dark brown lense of coarse and medium gravel from 2 to 3 inches from bottom.	
28						
29	JT-SB-15(28-30)	4, 3, 5, 6	15	0	Wet, medium stiff to stiff, brown, MF SAND and SILT, trace clay, dark brown lense of medium gravel from 3 to 4 inches from top.	
30						

SAMPLING METHOD
SS = SPLIT SPOON

COMMENTS:
End boring at 30 Ft

Contractor: Geologic
Driller: Dave Lyon
Inspector: Dan Chamberland
Rig Type: Truck

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. Sheet 1 of 1
Location Description: JT-SB-01

Location Plan

GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Hot, Cloudy, Humid
Date/Time Start: 6/25/13 0800
Date/Time Finish: 6/25/13 0945

Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
0 2	NA	2-4-24-25	20	0.1	0-4 Inches: Silty SAND with few Organic material. Loose, dry. 4-18 Inches: Black Gravelly SAND with little Silt and fine to medium Gravel/coal pieces. Dense, poorly sorted. 18-20 Inches: Gray to brown to blue crushed fill material		
3 4	NA	14-6-5-5	14	0.1	Black Fine GRAVEL with some coarse Sand, little medium Gravel. Bluish calcium deposits, medium loose, well graded, wet.		
5 6	JT-SB-01 5.0-5.5	5-4-7-9	22	0.2	Black Fine Gravelly SAND with trace woody Organics. Loose, well graded,semi-angular to rounded. Wet.		
7 8	NA	15-4-2-2	20	0.2	0-17 Inches:: SAA with few med Gravel 17 to 20 Inches': Brownish Gray Sandy SILT. Trace brick fragments and glass. Wet.		
9 10	NA	3-3-2-2	1	0.1	SAA		
11 12	JT-SB-01 11.0-11.5	1-3-50/0.2	6	24.8	Fill; Lightly coated in tar, wood/metal debris. Suspected bottom of the former gas holder. End of boring.		

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Coal tar observed from 10 to 12 ft
Possible purifier waste from 0 to 4 ft.

Contractor: Geologic **Driller:** Dave Lyon **Inspector:** Dan Chamberland **Rig Type:** Truck Rig					**PARSONS** **DRILLING RECORD** **PROJECT NAME:** Jamestown MGP **PROJECT NUMBER:** 447950.02000	**BORING/ WELL NO.**	Sheet 1 of 1 **Location Description:** JT-SB-02
GROUNDWATER OBSERVATIONS					**Weather:** Overcast, Hot, Weather in forecast **Date/Time Start:** 6/28/13 09:50 **Date/Time Finish:** 7/1/13 16:00	**Location Plan**	
Water Level							
Date							
Time							
Meas. From							

Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
0 3	NA	NA	NA	NA	Hand clear to 3 ft. Flat hard layer and perched water encounterd.		
4 5	NA	9-10-20-20	24	0.3	Fine to Coarse SAND with some Med angular Gravel. Loose, Wet, Poorly sorted. 3 Inch layer of Bluish Concrete at 4 Feet. Bottom foot is very wet concrete(Fill)		
6 7	NA	7-8-4-2	14	71.3	SAA. In the tip was glass and wood fill, very strong tar odor with light sheen		
8 9	NA	2-1-1-1	6	98.7	Black Coarse SAND with trace Silt, Several Coarse Gravel. Loose, wet, some organic debris with sheen and staining. Trace of tar like material, Very strong odor.		
10 11	NA	9-2-1-WH	8	227	Black Med to Coarse SAND with few Fine Gravel and organics. Bright sheen, Very strong odor and Tar balls present.		
12 13	NA	1-1-1-1	13	172	SAA for top half. Tannish brown Med SAND with Silt and Fine Angular Gravel, soupy, Very Light odor		
14 15	NA	2-3-6-7	0	30.8	No Recovery, Rock stuck in tip of 3 inch spoon. Slight sheen in spoon		
16 17	JT-SB-02 16.0-16.5	10-6-4-7	18	241	3 inch Spoon. 0 to 12 Inches: Tannish Brown Med SAND with Silt and some Med Gravel, heavy sheen and few tar balls. 12-18 Inches: Greenish Gray Clayey Silt with Few Fine to Med Gravel, rounded, soft.		
18 19	NA	3-3-3-2	7	11.3	SAA		
20 21	NA	4-3-3-4	5	13.4	3 Inch Spoon. SILT with Trace Fine Sand and few Fine to Med Gravels, sheen in water, no evidence of tar in soils		
22 23	NA	2-9-7-9	20	8.8	0 to 6 Inches: Gray SILT with trace Organics and Fine Sand. Wet. 6 to 14 Inches: Dark Gray Clayey SILT with trace woody Organics, moist, med dense. 14 to 20 Inches: Med to Coarse SAND with few M Angular and rounded Gravel, some woody		
24 25	NA	12-13-9-11	12	31.5	Brown, Fine SAND with little Silt and some Coarse Sand. Little angular med Gravel, Loose, Wet.		
26 27	NA	16-15-12-10	8	16.3	SAA		
28 29	NA	12-9-8-14	6	2.3	Tan-Brown Fine SAND with trace Silt and some Fine to Medium angular Gravel. Saturated, well graded, med loose.		
30 31	NA	31-16-19-18	9	9.3	Tan-Brown Fine to Medium angular GRAVEL with some Med Sand, trace Silt. Very wet, med dense.		
32 33	JT-SB-02 32.0-32.5	4-5-8-10	18	7	0-9 Inches: Brown Coarse SAND with some fine to medium rounded Gravel. Loose, wet, shell fragments with light odor. 9-18 Inches: Tan, Lean CLAY, stiff, dry		
34 35	NA	5-6-6-9	10	0.3	SAA. Confining layer, end of boring.		

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Odors noted between 5ft and 13 ft and again from 31 ft to 33 ft. Sheens observed 5 ft to 11 ft and 13 ft to 21 ft.
Coal tar observed from 7 ft to 11 ft and from 15 ft to 19 ft.

PARSONS

DRILLING RECORD

BORING/ WELL NO. Sheet 1 of 1

Contractor: Geologic
Driller: Dave Lyon
Inspector: Dan Chamberland
Rig Type: Truck rig

PROJECT NAME: Jamestown MGP
PROJECT NUMBER: 447950.02000

Location Description: JT-SB-03

Location Plan

Weather:
Date/Time Start: 7/2/13 0740
Date/Time Finish: 7/2/13 1100

GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
0 2	NA	NA	NA	NA	Hand clear to 2 ft. Encounter slab and perched water. Begin augering at 2 ft.		
3 4	NA	15-77-85	12	0.2	Black, fine GRAVEL with some med angular Gravel and coarse Sand, saturated, loose, poorly sorted. Refusal at 3.5 ft (concrete).		
5 6	NA	29-52-50/3 in.	15	0.4	Layer of rock and coal fill fading to stained, very weathered concrete. Blue to green in color, will crumble by hand with great effort.		
7 8	NA	12-75/5 in.	6	0.3	Fragmented concrete giving way to fine GRAVEL with some coarse Sand and trace of Silt and lumber debris. Black with slight blue staining, saturated, loose.		
9 10	NA	30-23-6-3	24	4.6	Black medium coarse SAND with some fine rounded Gravel at 9.0 turns to med Sand with few fine Gravel and trace of Silt. Some lumber debris and 0.5 feet of weathered blue concrete at the bottom/		
11 12	NA	4-9-5-4	6	0.2	Tannish gray SILT with some medium Sand and similar sized brick fragments, little fine to medium Gravel. Wet, soft, well graded.		
13 14	NA	1-1-1-1	4	0.2	SAA. Very wet.		
15 16	NA	WR-1-1-3	5	0	Gray SILT with little fine Sand and woody debris. One medium angular piece of Gravel. Clayey lense at 15'. Soft, wet.		
17 18	NA	5-2-2-2	14	0	Gray Silty SAND with few med rounded and angular Gravel. Some light blue and brown mottles, med firm, wet, well graded.		
19 20	NA	WH-1-1-2	12	0	SAA with little fine Gravel, 1 thin piece of leather.		
21 22	JT-SB-03 21.0-21.5	1-1-1-1	16	1.7	Brown, Sandy SILT grading to fine SAND, med soft/loose. Wet, light odor, no visual contamination.		
23 24	NA	75/1 in.	0	NR	No recovery, auger through hard material and resume sampling at 24'.		
25 26	NA	12-10-15-11	8	3.2	Brown coarse angular GRAVEL to Fine SAND. Well graded, very light odor.		
27 28	JT-SB-03 27.0-27.5	5-3-3-3	15	0.1	0-7 Inches: SAA 7-17 Inches: Brownish tan Fat clay, med stiff, moist, trace of brick debris near top		
29 30	NA	2-3-4-4	14	0	SAA, fat clay, 2 foot confining layer. End of boring.		

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Possible purifier waste 5ft to 10 ft, but no odor noted. Slight odors noted from 20 ft to 22 ft and from 24 ft to 26 ft.

PARSONS

DRILLING RECORD

BORING/ WELL NO. Sheet 1 of 1

Contractor: Geologic
Driller: Dave Lyon
Inspector: Dan Chamberland
Rig Type: Truck Rig

PROJECT NAME: Jamestown MGP
PROJECT NUMBER: 447950.02000

Location Description: JT-SB-04

Location Plan

GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: Overcast, cool, scattered rain
Date/Time Start: 7/2/13 1430
Date/Time Finish: 7/3/13 0845

Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
0 5	NA	NA	NA	NA	Hand clear to 5 ft.		
6 7	NA	10-1-WH-WH	15	30.3	Black, Med to Coarse SAND with little fine angular Gravel. Dense, wet, light sheen and odor		
8 9	NA	1-3-1-7	8	20.5	SAA with tar at bottom of spoon		
10 11	JT-SB-04 10.0-10.5	3-6-3-7	12	175	fine to med SAND, wet, firm. Coated in tar.		
12 13	NA	7-4-2-2	13	104	Black. Med to Coarse SAND with trace of Organics and fine Gravel. Strong odor, tarry texture.		
14 15	NA	9-4-2-2	19	20.1	0 to 17 Inches: SAA. 17 to 19 Inches: Gray very fine SAND with little Coarse Sand. Wet, loose, trace brick debris		
16 17	NA	2-1-WH-1	5	22.6	Black Fine SAND with Silt and Fine Gravel, wet, loose, slight odor. Strong sheen.		
18 19	NA	4-5-2-2	7	14.5	Brown, Very Fine SAND with some Coarse Sand and fine Gravel. Light sheen, light odor.		
20 21	NA	4-4-2-3	4	18.3	Black SILT to fine rounded Gravel with little Organics. Saturated, soft, light sheen, light odor		
22 23	NA	7-31-23-5	2	12.3	Black sandy sludge. Wet, loose, light odor and sheen. A large chunk of wood was lodged in the tip.		
24 25	NA	1-2-4-4	6	21.2	SAA including solid chunk of wood in tip		
26 27	NA	5-3-9-17	12	5	Gray Fine SAND with some Silt, Wood debris and trace medium angular Gravel. Soft, moist. Light odor, no visual contamination.		
28 29	NA	13-12-5-4	10	5.4	SAA grading to a silty clay with trace of angular Coarse Sand. Very wet. Odor at the top of the spoon, no visual contamination.		
30 31	NA	7-8-8-11	0	NR	No recovery with a 3 inch spoon		
32 33	JT-SB-04 31.0-31.5	8-10-9-4	24	0.3	3 inch spoon. Gray silty clay, med stiff, wet, Homogenous. Confining layer, end of boring.		

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Coal tar observed between approximately 9 ft and 13 ft.
Sheens and odors noted between 5 ft and 21 ft.

Contractor: Geologic **Driller:** Dave Lyon **Inspector:** Dan Chamberland **Rig Type:** Truck rig	**PARSONS** **DRILLING RECORD** **PROJECT NAME:** Jamestown MGP **PROJECT NUMBER:** 447950.02000	**BORING/ WELL NO.**	Sheet 1 of 1 **Location Description:** JT-SB-05

GROUNDWATER OBSERVATIONS				
Water Level				
Date				
Time				
Meas. From				

Weather: cloudy, humid, hot

Date/Time Start: 7/3/13 1100

Date/Time Finish: 7/8/13 1500

Location Plan

Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
0 5	NA	NA	NA	NA	Hand clear to 5 ft.		
6 7	NA	1-3-2-47	11	0.2	Fill; wood, concrete and brick debris. Wet.		
8 9	NA	35-8-4-3	7	0.2	SAA; all material is crushed into angular coarse gravel, no odor or visual evidence.		
10 11	NA	6-5-1-1	8	0	Med SAND with fill debris; wood, concrete and brick.		
12 13	NA	4-1-3-1	10	0	Med SAND with fill debris; wood, concrete and brick.		
14 15	NA	6-5-3-1	7	0	Fine to coarse SAND with fine to medium angular Gravel. Brick debris, saturated.		
16 17	NA	5-8-4-2	11	0	Brown, fine to medium SAND, some Silt with little brick fragments and Gravel. Saturated, Loose		
18 19	NA	2-3-6-4	7	3.8	3" SAA. 2" of rock, 1" light brown SILT, some fine Sand. Saturated, very soft. 1" black,stained coarse SAND, trace fine to medium Gravel. Wet, loose, petroleum odor.		
20 21	NA	5-8-6-7	10	8	0-5 Inches: brown fine to medium SAND, little Brick Fragments, little Silt. Saturated, loose. 5-10 Inches: brown GRAVEL, some Brick Fragments. Saturated, medium loose, odor.		
22 23	JT-SB-05 22.0-22.5	6-8-8-6	13	17.9	0-10Inches: dark gray SILT, little Gravel, little Brick Fragments. Saturated, loose, sheen, odor. 10-13 Inches: brown fine to coarse SAND, little Silt, little Gravel, trace Brick Fragments. Saturated, medium dense, odor, staining.		
24 25	NA	7-5-3-3	10	1.5	Brown fine to medium SAND, some Gravel, little Silt, trace Brick Fragments. Medium loose, saturated.		
26 27	NA	2-3-3-4	10	1	0-6 Inches: fine to coarse SAND, trace Silt, trace Brick Fragments. Saturated, loose. 6-10 Inches: brown fine to coarse SAND, some Gravel, little Silt. Saturated, med		
28 29	NA	5-4-5-4	5	1	brown fine to coarse SAND, little Gravel, Little Silt. Saturated, loose. Rock was stuck in the tip preventing the recovery of more material.		
30 31	NA	10-8-5-4	14	1.4	Brown fine to coarse SAND, trace Gravel, trace Silt. Saturated, medium loose.		
32 33	NA	5-4-4-3	15	2.1	Brown fine to coarse SAND, some Gravel. Saturated, medium dense. Stained layer from 32'-32.1'		
34 35	NA	7-4-4-5	24	1.2	0-16 Inches: brown fine to coarse SAND, some Gravel, little Silt. Saturated, medium dense. Staining and slight odor in the bottom inch. 16-18 Inches: gray CLAY, some Silt. Wet to very moist, medium stiff.		
36 37	NA	5-7-9-14	24	0.1	Gray CLAY, some Silt. Very wet, medium stiff		
38 39	JT-SB-05 38.0-38.5	4-7-8-8	24	0.1	SAA. End of boring.		

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Sheen observed between 21 ft and 23 ft.
Staining and odors noted from 17 ft to 23 ft and again from 31 ft to 34 ft.

Contractor: Geologic
Driller: David Lyons
Inspector: Morgan Todd
Rig Type: Hollow Stem Auger

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown, NY Former MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. MW-01 Sheet 1 of 1

Location Description: NW corner of parking lot at 208 East First Street, Jamestown, NY

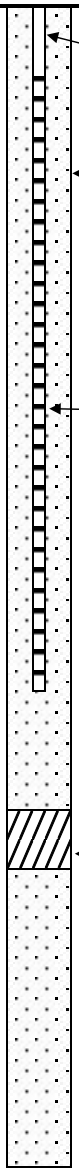
GROUNDWATER OBSERVATIONS				
Water Level	0'			
Date	7-12-13			
Time	1500			
Meas. From	TOC			

Weather: Sunny / light showers / hot
Date/Time Start: 7-9-13 / 1405
Date/Time Finish: 7-9-13 / 1530

Location Plan

Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL
<5					Previously hand augered.
6	NA	1-2-1-1	5	0.1	SM, Saturated, loose, medium grey, fine - coarse SAND and SILT, some gravel. Tar-like odor.
7					
8	JT-MW-01_8.0-8.5	1-1-1-1	24	4	0-12 Inches: MH, Moist, medium stiff, light brown, SILT, little clay, little gravel, little fine - coarse sand. Tar-like odor.
9					12-23 Inches: SAA - Stained dark brown. 23-24 Inches: SAA - Heavy black staining.
10	NA	1-1-2-2	5	0.3	SM-GM, Saturated, loose, dark grey, fine - coarse SAND and fine - coarse GRAVEL, some silt. Tar-like odor.
11					
12	NA	1-2-2-2	5	1.4	0-4 Inches: ML, Saturated, soft, grey stained dark grey, SILT, little gravel, trace clay. Tar-like odor. 4-5 Inches: ML, Very moist, medium stiff, orange-brown, SILT, some gravel, trace fine - coarse sand. Tar-like odor.
13					
14	JT-MW-01_13.0-13.5	1-1-2-3	10	0.4	0-4 Inches: ML, Saturated, medium soft, grey stained dark grey to black, SILT, some gravel, little fine - coarse sand. Tar-like odor. 4-10 Inches: MH, Saturated, medium stiff, orange-brown, SILT, some clay, some gravel, trace fine - coarse sand.
15					
16	NA	1-1-6-3	10	0	CL, Saturated, medium stiff, brown, CLAY, some fine - coarse sand, little gravel.
17					
18	NA	2-2-1-2	12	0	MH, Saturated, medium stiff, brown, SILT, little clay, trace gravel.
19					
20	NA	4-3-3-2	10	0	0-6 Inches: SAA 6-8 Inches: MH, Saturated, medium stiff, grey, SILT, little clay. 8-10 Inches: SW, Saturated, medium loose, grey, fine - coarse SAND, trace silt.
21					
22	NA	3-6-6-4	24	0	0-2 Inches: SW, Saturated, medium loose, grey, fine - coarse SAND, trace silt. 2-24 Inches: CL-MH, Saturated, medium stiff, grey, CLAY, and SILT.
23					
24					End of boring @ 23'.
25					

SCHEMATIC



COMMENTS
Sampled 8.0 - 8.5 @ 1410

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Staining observed from 8 ft to 9 ft.
Odors noted from 5 ft to 14 ft

Contractor: Geologic
Driller: David Lyons
Inspector: Morgan Todd
Rig Type: Hollow Stem Auger

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown, NY Former MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. MW-02 Sheet 1 of 2

Location Description: SW corner of parking lot at 208 East First Street, Jamestown, NY

Location Plan

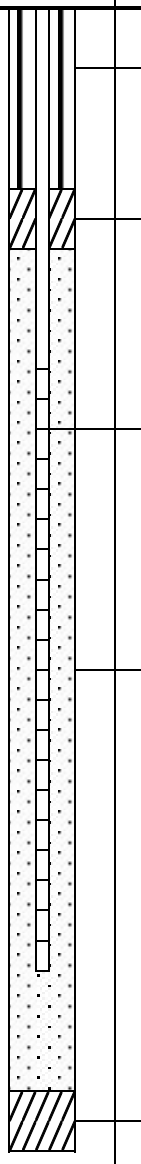
GROUNDWATER OBSERVATIONS				
Water Level	12'	2'		
Date	7-10-13	41467		
Time	1030	1600		
Meas. From	Ground Surface	TOC		

Weather: Sunny / light showers / hot

Date/Time Start: 7-10-13 / 0810

Date/Time Finish: 7-10-13 / 1300

Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL
<5					Previously hand augered.
6 7	NA	9-7-4-4	12	0.3	0-8 Inches: SM, Slightly moist, loose, dark brown, fine - medium SAND, some silt. 8-12 Inches: MH, Wet, medium stiff, grey, SILT, some fine - coarse sand, little gravel, trace asphalt.
8 9	NA	2-2-2-3	12	0.1	MH, Wet, medium stiff, grey, SILT, some fine - coarse sand, little gravel, trace asphalt.
10 11	NA	6-4-2-2	2	0.1	MH, Moist, medium stiff, brown, SILT, some fine - medium sand, some gravel, little clay.
12 13	NA	6-3-4-2	2	0	MH, Saturated, medium stiff, grey-brown, SILT, some fine - medium sand, some gravel, little clay.
14 15	JT-MW-02_14.0-14.5	2-2-3-50/4 in.	24	0.1	0-16 Inches: ML, Very moist, medium stiff, green-brown, SILT, some fine - medium sand, little gravel, trace coal. 16-20 Inches: SAA - Stained black due to coal - little coal. 20-24 inches: Pine wood.
16 17	NA	38-12-3-3	7	0	Pine wood.
18 19	NA	18-2-5-6	7	0	Pine wood
20 21	NA	22-3-2-21	10	0.4	0-6 Inches: ML, Saturated, medium stiff, grey-brown, SILT, some gravel, little fine - coarse sand, trace coal, trace clay. 6-10 Inches: Pine wood.
22 23	NA	2-2-2-3	0	NA	No recovery.



SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
No impacts from former MGP noted.

Contractor: Geologic
Driller: David Lyons
Inspector: Morgan Todd
Rig Type: Hollow Stem Auger

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown, NY Former MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. MW-02 Sheet 2 of 2
Location Description: SW corner of parking lot at 208 East First Street, Jamestown, NY

GROUNDWATER OBSERVATIONS				
Water Level	12'	2'		
Date	7-10-13	41467		
Time	1030	1600		
Meas. From	Ground Surface	TOC		

Weather: Sunny / light showers / hot
Date/Time Start: 7-10-13 / 0810
Date/Time Finish: 7-10-13 / 1300

Location Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
23							
24	JT-MW-02_24.0-24.5	6-10-7-9	12	2.1	0-7 Inches: GM, Saturated, loose, grey-brown, fine - coarse GRAVEL, some silt, little fine - coarse sand, trace wood. 7-12 Inches: ML, Moist, medium stiff, green-brown, SILT, little gravel.		
25							
26	NA	6-7-7-9	12	0.4	ML, Saturated, medium stiff, grey, SILT, trace clay.		
27							
28	NA	11-12-11-14	20	0.2	ML, Wet, medium stiff, grey, SILT.		Formation collaps
29							
30	NA	14-19-23-34	24	0.9	SAA		
31							
32	NA	10-15-16-19	24	2	SAA		
33							
34					End of boring @ 33'.		
35							
36							
37							
38							
39							
40							
41							

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
No impacts from former MGP noted.

Contractor: Geologic
Driller: David Lyons
Inspector: Morgan Todd
Rig Type: Hollow Stem Auger

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown, NY Former MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. MW-03 Sheet 1 of 2

Location Description: South side of parking lot at 208 East First Street, Jamestown, NY

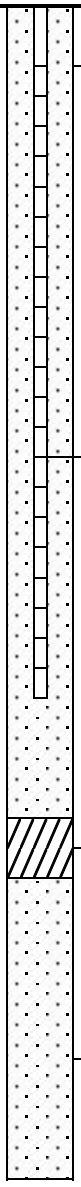
Location Plan

GROUNDWATER OBSERVATIONS				
Water Level	1'			
Date	7-12-13			
Time	1600			
Meas. From	TOC			

Weather: Sunny / light showers / hot
Date/Time Start: 7-11-13 / 0920
Date/Time Finish: 7-11-13 / 1200

Sample Depth	Sample I.D.	SPT	Inches Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL
<5					**Previously hand augered.**
6	NA	3-2-3-4	3	1.7	Saturated, soft, brown, SILT, some fine - coarse sand, little gravel, trace clay.
7					
8	NA	4-2-2-4	20	3.4	0-10 Inches: Very moist, medium soft, grey-brown, SILT, little fine - coarse sand, little gravel. 10-20 Inches: Very moist, medium soft, grey-brown stained black, SILT, little fine - coarse sand, little gravel. Tar-like odor
9					
10	NA	2-1-1-2	14	3.3	Very moist, medium soft, brown-grey stained black, SILT, some fine - coarse sand, little gravel. Trace brick @ 11". Tar-like odor.
11					Wet @ 11'
12	JT-MW-03_12.0-12.5	2-2-3-4	14	3.8	Wet, medium soft, brown-grey stained black, SILT, some fine - coarse sand, little gravel, little wood, trace brick. Tar-like odor.
13					
14	NA	2-2-1-2	6	1.2	Saturated, loose, dark grey, GRAVEL, little fine - coarse sand, little silt.
15					
16	NA	4-3-5-2	18	1.3	Saturated, loose, dark grey, fine - coarse SAND, some gravel, little silt. Slight tar-like odor.
17					
18	NA	2-2-4-2	14	1.3	0-10 Inches: SAA 10-14 Inches: Very wet, soft, grey stained black, SILT, little fine - coarse sand, trace clay. Tar-like odor.
19					
20	NA	4-4-3-3	4	1.3	Saturated, loose, dark grey, fine - coarse SAND, trace silt. Tar-like odor.
21					
22	NA	3-2-31-50/1 in.	22	1.5	Very wet, soft, grey stained black, SILT, some fine - medium sand, trace clay. Tar-like odor. 4" Weathered concrete.
23					

SCHEMATIC



COMMENTS:
Odors noted between 8 ft and 27 ft.

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

Contractor: Geologic
Driller: David Lyons
Inspector: Morgan Todd
Rig Type: Hollow Stem Auger

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown, NY Former MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. MW-03 Sheet 2 of 2

Location Description: South side of parking lot at 208 East First Street, Jamestown, NY

GROUNDWATER OBSERVATIONS				
Water Level	1'			
Date	7-12-13			
Time	1600			
Meas. From	TOC			

Weather: Sunny / light showers / hot
Date/Time Start: 7-11-13 / 0920
Date/Time Finish: 7-11-13 / 1200

Location Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
23							
24	NA	NA	NA	NA	Concrete to 24.4' - No sample.		
25							
26	NA	16-13-14-10	14	1.1	ML-GW, Wet, medium soft, grey-brown with slight black staining, SILT and fine - coarse GRAVEL, some fine - coarse sand, trace clay, trace wood. Slight tar-like odor.		
27							
28	NA	8-5-6-11	18	0.9	0-7 Inches: SW-GW, Saturated, medium dense, grey, fine - coarse SAND, and fine - coarse GRAVEL trace brick. 7-11 Inches: ML, Very wet, medium stiff, grey brown, SILT, some fine - coarse sand. little gravel. 11-17 Inches: GM, Saturated, medium loose, grey-brown, fine - coarse GRAVEL, little fine - coarse sand, little silt.		Formation collaps
29							
30	NA	13-6-8-8	18	1.6	0-12 Inches: ML, Moist, stiff, grey-brown, SILT, some fine - coarse sand, little gravel, trace clay. Slight burn woood odor. 12-18 Inches: GC, Wet, medium dense, grey, fine - coarse GRAVEL, some silt, some fine - coarse sand, little clay. Slight burnt wood odor.		
31							
32	JT-MW-03_32.0-32.5	7-12-10-4	20	1.2	0-11 Inches: GM, Saturated, medium dense, grey, fine - coarse GRAVEL, some fine - coarse sand, litle silt. 11-13 Inches: MH, Very moist to wet, stiff, grey-green, SILT, some gravel, little fine - coarse sand, little clay. 13-20 Inches: GM, Saturated, medium dense, grey, fine - coarse GRAVEL, some fine - coarse sand, little silt.		
33							
34	NA	4-7-10-10	20	2.4	MH, Wet, medium stiff, grey, SILT, some clay.		
35							
36					End of boring @ 35'.		
37							
38							
39							
40							
41							

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Odors noted between 8 ft and 27 ft.

Contractor: Geologic
Driller: David Lyons
Inspector: Morgan Todd
Rig Type: Hollow Stem Auger

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown, NY Former MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. MW-04 Sheet 1 of 2

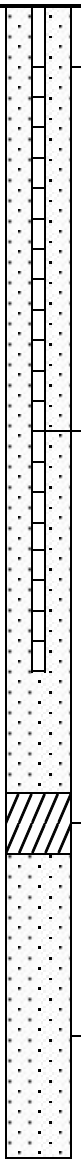
Location Description: North side of parking lot at 208 East First Street, Jamestown, NY

GROUNDWATER OBSERVATIONS				
Water Level	0'			
Date	7-12-13			
Time	1300			
Meas. From	TOC			

Weather: Sunny / light showers / hot
Date/Time Start: 7-8-13 / 1620
Date/Time Finish: 7-9-13 / 0930

Location Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL
<5					Previously hand augered.
6 7	JT-MW-04_6.0-6.5	2-2-2-1	9	0.1	0-6 Inches: MH, Saturated, soft, dark grey-black, SILT, some gravel, trace fine - medium sand. 6-9 Inches: CL, Very moist, medium stiff, grey-brown, CLAY, some silt, little gravel, little fine - coarse sand.
8 9	NA	1-5-2-1	9	0.4	CL, Very moist, medium stiff, grey-brown, CLAY, some silt, little gravel, little fine - coarse sand.
10 11	NA	1-WH-2-3	5	0.3	SC, Saturated, medium loose, brown, fine - coarse SAND, some gravel, litle CLAY.
12 13	NA	2-3-3-4	5	0.4	GW-SW, Saturated, medium dense, brown, fine - coarse GRAVEL and fine - coarse SAND, trace clay.
14 15	NA	5-4-4-3	5	0.1	0-2 Inches: SW, Saturated, medium loose, brown, fine - coarse SAND, some gravel. Stained black last 1". 2-5 Inches: MH, Moist, medium stiff, grey-brown, SILT, some gravel, little fine - coarse sand.
16 17	NA	4-4-4-4	8	0.3	SC-GC, Saturated, medium dense, brown, fine - coarse SAND and fine - coarse GRAVEL, some clay.
18 19	NA	7-4-4-5	4	0.3	GC-SC, Saturated, medium dense, brown, fine - coarse GRAVEL and fine - coarse SAND, some clay.
20 21	NA	5-6-10-8	12	0.3	SM, Saturated, medium dense, brown, fine - coarse SAND, some gravel, some silt.
22 23	JT-MW-04_22.0-22.5	7-4-4-4	15	0.2	0-7 Inches: SAA 7-15 Inches: ML, Saturated, medium stiff, grey, SILT, little clay.



SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Staining observed at approximately 13 ft.

Contractor: Geologic
Driller: David Lyons
Inspector: Morgan Todd
Rig Type: Hollow Stem Auger

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown, NY Former MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. MW-04 Sheet 2 of 2

Location Description: North side of parking lot at 208 East First Street, Jamestown, NY

Location Plan

GROUNDWATER OBSERVATIONS				
Water Level	0'			
Date	7-12-13			
Time	1300			
Meas. From	TOC			

Weather: Sunny / light showers / hot
Date/Time Start: 7-8-13 / 1620
Date/Time Finish: 7-9-13 / 0930

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
23							
24	NA	4-5-7-6	24	0.2	MH, Saturated, medium stiff, grey, SILT, some clay.		
25							
26	NA	2-2-2-4	24	0.1	CL, Saturated, stiff, grey, CLAY, some silt.		Formation collaps
27							
28	NA	5-6-8-8	24	0	SAA		
29							
30					End of boring @ 29'		
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Staining observed at approximately 13 ft.

Contractor: Geologic
Driller: David Lyons
Inspector: Morgan Todd
Rig Type: Hollow Stem Auger

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown, NY Former MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. MW-05 Sheet 1 of 2

Location Description: SE corner of parking lot at 208 East First Street, Jamestown, NY

GROUNDWATER OBSERVATIONS				
Water Level	8.3'	8'		
Date	7-11-13	41467		
Time	1645	1630		
Meas. From	Ground Surface	TOC		

Weather: Sunny / light showers / hot

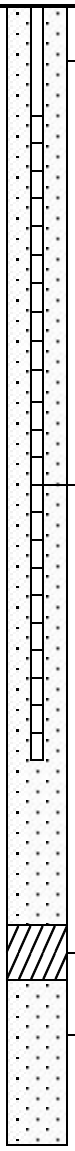
Date/Time Start: 7-11-13 / 1610

Date/Time Finish: 7-12-13 / 0900

Location Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL
<5					Previously hand augered.
6	NA	14-42-14-13	24	0.6	24" Dry, red BRICK.
7					
8	NA	14-12-24-36	22	6	0-12 Inches: SAA 12-16 Inches: SW, Dry, dense, tan, fine - coarse SAND. 16-19 Inches:ML, Moist, stiff, brown-tan heavily stained black, SILT, some fine - coarse sand, trace gravel. Tar-like odor 19-20 Inches: SW, Wet, loose, brown-tan, fine - medium SAND. 10 ~2mm diameter blebs per inch. Tar-like odor. 20-22 Inches: ML, Moist, stiff, brown-tan heavily stained black, SILT, some fine - coarse sand, trace gravel. Tar-like odor.
9					
10	JT-MW-05_10.0-10.5	31-6-3-2	10	8.5	0-5 Inches: Dry, red BRICK. 5-8 Inches: ML, Dry, stiff, light brown, SILT, some gravel, little fine - coarse sand. 8-10 Inches: ML, Saturated, medium stiff, light brown, SILT, some gravel, little fine - coarse sand. 5 ~1mm blebs per inch. Tar-like odor.
11					
12	NA	2-2-2-3	10	7	ML, Saturated, medium stiff, light brown, SILT, some gravel, little fine - coarse sand. 5 ~1mm blebs per inch. Tar-like odor.
13					
14	NA	3-2-6-4	18	7.3	0-13 Inches: GM, Saturated, medium dense, dark brown, fine - coarse GRAVEL, little fine - coarse sand, little silt. Sheen, tar-like odor. 13-17 Inches: ML, Very moist, medium stiff, dark brown, SILT, little gravel, trace fine sand. Tar-like odor. 1 ~1mm bleb per inch. 17-18 Inches: Wood
15					
16	NA	2-2-5-7	5	7.9	0-3 Inches: ML, Wet, soft, green-brown heavily stained black, SILT, little gravel, little fine - coarse sand, trace wood. Tar-like odor. 3-5 Inches: SAA, no staining.
17					
18	NA	5-4-5-3	4	1.9	GM, Saturated, medium dense, brown, fine - coarse GRAVEL, some fine - coarse sand, little silt. Tar-like odor.
19					
20	NA	1-1-2-2	8	2.9	GM-SM, Saturated, medium dense, brown, fine - coarse GRAVEL and fine - coarse SAND, little silt. Tar-like odor.
21					
22	NA	3-2-2-2	6	1.3	SW, Saturated, loose, brown, fine - coarse SAND, little gravel, trace silt, trace wood. Tar-like odor.
23					

SCHEMATIC



COMMENTS:
Tar blebs and staining observed between approximately 8.58 ft and 15.25 ft.
Odors noted from approximately 8.3 ft to 27 ft.

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

Contractor: Geologic
Driller: David Lyons
Inspector: Morgan Todd
Rig Type: Hollow Stem Auger

PARSONS
DRILLING RECORD

PROJECT NAME: Jamestown, NY Former MGP
PROJECT NUMBER: 447950.02000

BORING/ WELL NO. Sheet 2 of 2 **MW-05**
Location Description: SE corner of parking lot at 208 East First Street, Jamestown, NY

GROUNDWATER OBSERVATIONS				
Water Level	8.3'	8'		
Date	7-11-13	7/12/2013		
Time	1645	1630		
Meas. From	Ground Surface	TOC		

Weather: Sunny / light showers / hot
Date/Time Start: 7-11-13 / 1610
Date/Time Finish: 7-12-13 / 0900

Location Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC	COMMENTS
23							
24	JT-MW-05_23.0-23.5	3-3-3-3	18	1.9	0-9 Inches: SW, Saturated, loose, dark brown, fine - coarse SAND, little gravel, trace silt. Tar-like odor.		
25					9-18 Inches: ML-SW, Saturated, medium stiff, brown, SILT and fine SAND. Slight tar-like odor.		
26	NA	3-3-3-4	4	1.5	ML-SW, Saturated, medium stiff, brown, SILT and fine SAND. Slight tar-like odor.		
27							
28	NA	7-5-4-4	18	1	MH, Wet, stiff, brown, SILT, some clay.		Formation collaps
29							
30	NA	5-5-7-8	20	2.7	SAA		
31							
32	NA	4-4-8-7	24	2.7	CL, Moist, stiff, grey, CLAY, little silt.		
33							
34					End of boring @ 33'		
35							
36							
37							
38							
39							
40							
41							

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
GP = GEOPROBE - DIRECT PUSH

COMMENTS:
Tar blebs and staining observed between approximately 8.58 ft and 15.25 ft.
Odors noted from approximately 8.3 ft to 27 ft.

APPENDIX F

WELL DEVELOPMENT LOGS

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: Former Jamestown MGP
PROJECT NUMBER: 447950.02000

WELL NUMBER: MW-01 **WEATHER:** Sunny
DATE: 7/12/2013 **TIME:**

DEVELOPER: MT of Parsons
JW of Parsons
DL of Parsons

DESCRIPTION OF WELL

Total Depth: 15 ft BGS Diameter: 2 in
Screen Depth: 5-15 ft BGS
Development Method: Surge/Purge

GROUNDWATER PURGING

Initial Static Water Level: Water comes to top of casing
One Well Volume: 2.4 gal 10 Volumes
2-Inch Casing: 15 Feet of Water x 0.16 Gallons/Foot = 2.4 Gallons 24
3-Inch Casing: Feet of Water x 0.36 Gallons/Foot = Gallons
4-Inch Casing: Feet of Water x 0.65 Gallons/Foot = Gallons

Volume of groundwater purged: 30 Gallons
Purging Device: Pump
Purge Water Disposition (e.g., contained): Contained in 55-Gallon Waste Drums

FIELD MEASUREMENTS

Time (Gallons)	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
Initial	66.2	7.34	2000	>1000	2 ft of silt in bottom of well
10	65.4	7.20	2010	>1000	
15	64.2	7.60	2020	>1000	
25	62.4	7.52	2150	>1000	
30	63.0	7.40	2150	800	Water grey color

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: Former Jamestown MGP
PROJECT NUMBER: 447950.02000

WELL NUMBER: MW-02 **WEATHER:** Sunny
DATE: 7/12/2013 **TIME:**

DEVELOPER: MT of Parsons
JW of Parsons
DL of Parsons

DESCRIPTION OF WELL

Total Depth: 20 ft BGS Diameter: 2 in
Screen Depth: 10-20 ft BGS
Development Method: Surge/Purge

GROUNDWATER PURGING

Initial Static Water Level: Water comes to top of casing
One Well Volume: 3.2 gal 10 Volumes

2-Inch Casing:	20	Feet of Water x 0.16 Gallons/Foot =	3.2	Gallons	32
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 30 Gallons
Purging Device: Pump
Purge Water Disposition (e.g., contained): Contained in 55-Gallon Waste Drums

FIELD MEASUREMENTS

Time (Gallons)	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
Initial	69.3	6.91	1705	>1000	5 ft of silt in bottom of well
5	61.1	8.21	2010	>1000	
15	60.9	8.20	2050	>1000	
25	60.8	8.20	2010	792	
30	61.0	8.21	2060	641	Water getting clearer

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: Former Jamestown MGP
PROJECT NUMBER: 447950.02000

WELL NUMBER: MW-03 **WEATHER:** Sunny
DATE: 7/12/2013 **TIME:**

DEVELOPER: MT of Parsons
JW of Parsons
DL of Parsons

DESCRIPTION OF WELL

Total Depth: 15 ft BGS Diameter: 2 in
Screen Depth: 5-15 ft BGS
Development Method: Surge/Purge

GROUNDWATER PURGING

Initial Static Water Level: 1 ft below top of casing
One Well Volume: 2.24 gal 10 Volumes

2-Inch Casing:	14	Feet of Water x 0.16 Gallons/Foot =	2.24	Gallons	22.4
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 25 Gallons
Purging Device: Pump
Purge Water Disposition (e.g., contained): Contained in 55-Gallon Waste Drums

FIELD MEASUREMENTS

Time (Gallons)	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
Initial	63.4	9.05	871	>1000	2 ft of silt in bottom of well
5	62.9	8.38	1333	894	
15	61.1	8.35	1390	749	
25	61.0	8.36	1572	512	

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: Former Jamestown MGP
PROJECT NUMBER: 447950.02000

WELL NUMBER: MW-04 **WEATHER:** Sunny
DATE: 7/12/2013 **TIME:**

DEVELOPER: MT of Parsons
JW of Parsons
DL of Parsons

DESCRIPTION OF WELL

Total Depth: 15 ft BGS Diameter: 2 in
Screen Depth: 5-15 ft BGS
Development Method: Surge/Purge

GROUNDWATER PURGING

Initial Static Water Level: Flowing well above top of casing

One Well Volume:		2.4 gal			10 Volumes
2-Inch Casing:	15	Feet of Water x 0.16 Gallons/Foot =	2.4	Gallons	24
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 30 Gallons
Purging Device: Pump
Purge Water Disposition (e.g., contained): Contained in 55-Gallon Waste Drums

FIELD MEASUREMENTS

Time (Gallons)	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
Initial	64.5	7.65	1940	NA	2 ft of silt in bottom of well
5 Gallons	60.9	7.67	1975	>1000	
10	61.1	7.54	1987	>1000	
15	59.1	7.57	2021	>1000	
20	58.4	7.56	2000	999	
25	58.6	7.54	2015	875	
30	59.7	7.55	1995	>1000	Water became lt brown but not clear

PARSONS
WELL DEVELOPMENT OBSERVATIONS

SITE NAME: Former Jamestown MGP
PROJECT NUMBER: 447950.02000

WELL NUMBER: MW-05 **WEATHER:** Sunny
DATE: 7/12/2013 **TIME:**

DEVELOPER: MT of Parsons
JW of Parsons
DL of Parsons

DESCRIPTION OF WELL

Total Depth: 15 ft BGS Diameter: 2 in
Screen Depth: 5-15 ft BGS
Development Method: Surge/Purge

GROUNDWATER PURGING

Initial Static Water Level: 8 ft below top of casing
One Well Volume: 1.12 gal 10 Volumes

2-Inch Casing:	7	Feet of Water x 0.16 Gallons/Foot =	1.12	Gallons	11.2
3-Inch Casing:		Feet of Water x 0.36 Gallons/Foot =		Gallons	
4-Inch Casing:		Feet of Water x 0.65 Gallons/Foot =		Gallons	

Volume of groundwater purged: 20 Gallons
Purging Device: Pump
Purge Water Disposition (e.g., contained): Contained in 55-Gallon Waste Drums

FIELD MEASUREMENTS

Time (Gallons)	Temp. (Degrees C)	pH	Conductivity (uS/cm)	Turbidity (NTUs)	Comments
Initial	64.7	7.70	1696	>1000	water is dark brown with sheen
5 Gallons	62.9	7.73	1786	>1000	
10	62.4	7.68	1850	953	
20	62.4	7.37	1828	729	

APPENDIX G

GROUNDWATER SAMPLE LOGS

LOW FLOW WELL SAMPLING RECORD

Site Name: Jamestown MGP

Well ID: MW-01

Manual Entry:

Send to SharePoint

Well Diameter: 2 inches

Samplers: dan chamberland

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft): 0.45

Depth to Well Bottom (ft): 15.10

Purging Data

Method: *(i.e. low flow)* low flow-geopump

Date: 07/25/2013

Time: 08:30 *(i.e. 14:32)*

1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Time (24hrs) (hhmm)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	TDS (g/L)	ORP (mV)	Comments
08:30	0.45	200	0.0	6.56	0.28	80.7	2.13	17.59	1.36	-65	clear, slight petroleum odor
08:40	0.55	200	0.5	7.21	0.0	30.1	2.07	17.88	1.32	-120	same
08:50	0.57	200	1.0	7.44	0.0	10.0	2.05	18.11	1.31	-132	same
08:55	0.58	200	1.2	7.50	0.0	7.3	2.04	18.33	1.31	-134	same
09:00	0.58	200	1.5	7.52	0.0	8.4	2.04	18.36	1.31	-135	clear, slight petroleum odor
09:05	0.58	200	1.7	7.56	0.0	10.3	2.04	18.59	1.31	-136	same
09:10	0.58	200	1.9	7.59	0.0	13.0	2.04	18.65	1.30	-136	same
09:15	0.60	200	2.2	7.61	0.0	10.3	2.03	18.56	1.30	-135	same
09:20	0.60	200	2.4	7.62	0.0	11.0	2.03	18.51	1.30	-135	same
09:25	0.61	200	2.6	7.63	0.0	10.5	2.02	18.48	1.30	-135	same
09:30	0.61	200	2.8	7.63	0.0	11.1	2.02	18.46	1.29	-135	same

Sampling Data

Method: *(i.e. low flow)* dedicated tubing

Date: 07/25/2013

Time: *(i.e. 14:32)* 09:30

Total Volume of Water Purged: 2.8 (gal)

HORRIBA	
pH	7.63
Spec. Cond. (mS/cm)	11.1
Turbidity (NTU)	
DO (mg/L)	0.00
Temp.(°C)	18.46
ORP (mv)	-135
TDS (g/L)	1.29

HACH TEST KITS	
Alkalinity (g/g)	
Carbon Dioxide (mg/L)	
Ferrous Iron (mg/L)	
Manganese (mg/L)	
Hydrogen Sulfide (mg/L)	
DTW (ft)	0.61

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

SAMPLE SET

Parameter		Bottle	Pres.	Method
Select VOCs	☐	3-40mL glass vial	HCl	EPA 8260
MEE	☐	2-40mL glass vial	HCl	Lab SOP
Dissolved Inorganics	☐	1-250 mL plastic (Field Filtered)	HNO3	SW6010B
Chloride / Nitrate / Sulfate	☐	2-40mL glass (Field Filtered)	None	lab specified
Ortho Phosphate	☐	1-250 mL plastic (Field filtered)	None	EPA 365.1
Sulfide	☐	1-250 mL plastic (Field filtered)	NaOH/Zn Acetate	MS-45000-S2-F
Total Organic Carbon	☐	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	☐	1-120mL glass amber	None	SW9060
Microbial Census	☐			
Hydrogen Acetylene	☐			

Comments:

PARSONS

LOW FLOW WELL SAMPLING RECORD

Site Name: Jamestown MGP

Well ID: MW-02

Manual Entry:

Send to SharePoint

Well Diameter: 2 inches

Samplers: Doruk Ucak

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft):	Depth to Well Bottom (ft):
7.77	20.15

1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Purging Data

Method: *(i.e. low flow)*: Low flow

Date: 07/25/2013

Time: 0840

Time (24hrs) (hhmm)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	TDS (g/L)	ORP (mV)	Comments
0845	8.56	125	0.17	6.66	8.54	Na	2.25	14.85	1.44	8	Clear
0850	9.16	125	0.34	7.30	7.65	Na	2.19	14.97	1.40	-53	
0855	9.11	125	0.51	7.42	7.28	Na	2.19	14.97	1.40	-68	
0900	9.16	125	0.68	7.56	6.58	Na	2.18	14.95	1.39	-88	
0905	9.16	125	0.85	7.67	5.75	Na	2.16	14.93	1.39	-102	
0910	9.19	125	1.02	7.71	5.10	Na	2.16	14.97	1.38	-109	
0915	9.21	125	1.19	7.73	4.80	Na	2.16	15.12	1.38	-114	
0920	9.20	125	1.36	7.76	4.20	Na	2.16	15.05	1.38	-116	
0925	9.18	125	1.53	7.79	3.63	Na	2.15	15.07	1.38	-120	
0930	9.20	125	1.70	7.80	3.30	Na	2.15	15.07	1.37	-121	
0935	9.19	125	1.87	7.81	2.90	Na	2.14	15.07	1.37	-123	
0940	9.21	125	2.04	7.81	2.54	Na	2.14	15.13	1.37	-124	
0945	9.24	125	2.21	7.84	2.08	Na	2.14	15.18	1.37	-126	
0950	9.23	125	2.38	7.84	1.72	Na	2.14	15.20	1.37	-128	
0955	9.25	125	2.55	7.84	1.61	Na	2.13	15.21	1.37	-128	
1000	9.24	125	2.72	7.84	1.37	Na	2.13	15.25	1.36	-128	
1010	9.24	125	2.89	7.86	1.08	Na	2.13	15.29	1.36	-129	
1015	9.24	125	3.06	7.88	0.77	Na	2.12	15.37	1.36	-130	
1020	9.23	125	3.23	7.86	0.57	Na	2.11	15.30	1.35	-130	
1030	9.24	125	3.58	7.84	0.41	Na	2.12	15.36	1.36	-129	
1040	9.25	125	3.91	7.84	0.24	Na	2.12	15.44	1.36	-130	
1050	9.25	125	4.23	7.84	0.00	Na	2.12	14.57	1.36	-130	

Sampling Data

Method: *(i.e. low flow)*: Low flow

Date: 07/25/2013

Time: *(i.e. 14:32)* 1055

Total Volume of Water Purged: 4.5 (gal)

HORRIBA	
pH	7.84
Spec. Cond. (mS/cm)	2.12
Turbidity (NTU)	0
DO (mg/L)	0.00
Temp.(°C)	14.57
ORP (mv)	-130
TDS (g/L)	1.36

HACH TEST KITS	
Alkalinity (g/g)	
Carbon Dioxide (mg/L)	
Ferrous Iron (mg/L)	
Manganese (mg/L)	
Hydrogen Sulfide (mg/L)	
DTW (ft)	

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

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Select VOCs	☐	3-40mL glass vial	HCl	EPA 8260
MEE	☐	2-40mL glass vial	HCl	Lab SOP
Dissolved Inorganics	☐	1-250 mL plastic (Field Filtered)	HNO3	SW6010B
Chloride / Nitrate / Sulfate	☐	2-40mL glass (Field Filtered)	None	lab specified
Ortho Phosphate	☐	1-250 mL plastic (Field filtered)	None	EPA 365.1
Sulfide	☐	1-250 mL plastic (Field filtered)	NaOH/Zn Acetate	MS-45000-S2-F
Total Organic Carbon	☐	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	☐	1-120mL glass amber	None	SW9060
Microbial Census	☐			
Hydrogen Acetylene	☐			

PARSONS

LOW FLOW WELL SAMPLING RECORD

Site Name: Jamestown MGP

Well ID: MW-03

Manual Entry:

Send to SharePoint

Well Diameter: 2 inches

Samplers: Doruk Ucak

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft): 1.3

Depth to Well Bottom (ft): 15.25

Purging Data

Method: *(i.e. low flow)* Low flow

Date: 07/24/2013

Time: 1000 *(i.e. 14:32)*

1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Time (24hrs) (hhmm)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	TDS (g/L)	ORP (mV)	Comments
1010	1.77	125	0.34	7.05	0.18	Na	1.80	17.79	1.16	-84	
1015	1.78	125	0.68	7.58	0.06	Na	1.85	17.60	1.18	-143	
1020	1.78	125	1.01	7.87	0.00	Na	1.82	17.48	1.16	-167	
1030	1.78	125	1.35	8.08	0.47	Na	1.81	17.85	1.15	-175	
1035	1.61	125	1.52	8.15	0.20	Na	1.80	17.47	1.15	-175	
1040	1.59	125	1.69	8.18	0.17	Na	1.80	17.50	1.15	-175	
1045	1.61	125	1.96	8.21	0.14	Na	1.79	17.51	1.15	-174	
1050	1.60	125	2.13	8.23	0.10	Na	1.79	17.42	1.14	-174	
1055	1.60	125	2.30	8.21	0.05	Na	1.80	17.53	1.14	-174	

Sampling Data

Method: *(i.e. low flow)* Low flow

Date: 07/24/2013

Time: *(i.e. 14:32)* 1055

Total Volume of Water Purged: 2.3 (gal)

HORRIBA	
pH	8.21
Spec. Cond. (mS/cm)	1.80
Turbidity (NTU)	
DO (mg/L)	0.00
Temp.(°C)	17.53
ORP (mv)	-174
TDS (g/L)	1.14

HACH TEST KITS	
Alkalinity (g/g)	
Carbon Dioxide (mg/L)	
Ferrous Iron (mg/L)	
Manganese (mg/L)	
Hydrogen Sulfide (mg/L)	
DTW (ft)	

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

Comments: Horiba turned off, DO restarted from 0.47 mg/L.

SAMPLE SET

Parameter		Bottle	Pres.	Method
Select VOCs	☐	3-40mL glass vial	HCl	EPA 8260
MEE	☐	2-40mL glass vial	HCl	Lab SOP
Dissolved Inorganics	☐	1-250 mL plastic (Field Filtered)	HNO3	SW6010B
Chloride / Nitrate / Sulfate	☐	2-40mL glass (Field Filtered)	None	lab specified
Ortho Phosphate	☐	1-250 mL plastic (Field filtered)	None	EPA 365.1
Sulfide	☐	1-250 mL plastic (Field filtered)	NaOH/Zn Acetate	MS-45000-S2-F
Total Organic Carbon	☐	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	☐	1-120mL glass amber	None	SW9060
Microbial Census	☐			
Hydrogen Acetylene	☐			

PARSONS

LOW FLOW WELL SAMPLING RECORD

Site Name: Jamestown MGP

Well ID: MW-04

Manual Entry:

Send to SharePoint

Well Diameter: 2 inches

Samplers: Dan Chamberland

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft): 0

Depth to Well Bottom (ft): 14.98

Purging Data

Method: *(i.e. low flow)* low flow-geopump

Date: 07/24/2013

Time: 09:30 *(i.e. 14:32)*

1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Time (24hrs) (hhmm)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	TDS (g/L)	ORP (mV)	Comments
09:30	0.0	200	0.0	6.51	0.38	242	1.93	14.95	1.24	202	Water level was at the very top of casing
09:40	0.0	200	0.5	7.16	0.0	117	1.83	14.82	1.17	130	clear, no odor
09:50	0.0	200	1.0	7.30	0.0	45.5	1.82	14.77	1.17	107	same
09:55	0.0	200	1.2	7.31	0.0	43.9	1.82	14.79	1.17	105	water level above casing, well roadbox was dry inside upon opening, well is artesian
10:00	0.0	200	1.5	7.33	0.0	37.9	1.82	14.79	1.17	103	same
10:05	0.0	200	1.7	7.38	0.0	34.3	1.82	14.79	1.17	97	same
10:10	0.0	200	1.9	7.43	0.0	20.3	1.82	14.81	1.17	90	same
10:15	0.0	200	2.1	7.44	0.0	19.8	1.82	14.82	1.17	89	same
10:20	0.0	200	2.4	7.46	0.0	17.0	1.82	14.90	1.17	86	same
10:25	0.0	200	2.6	7.47	0.0	13.9	1.82	14.88	1.16	85	same
10:30	0.0	200	2.8	7.48	0.0	9.8	1.82	14.83	1.16	85	same

Sampling Data

Method: *(i.e. low flow)* low flow, dedicated tubing

Date: 07/24/2013

Time: *(i.e. 14:32)* 10:30

Total Volume of Water Purged: 2.8 (gal)

HORRIBA	
pH	7.48
Spec. Cond. (mS/cm)	1.82
Turbidity (NTU)	
DO (mg/L)	0.00
Temp.(°C)	14.83
ORP (mv)	85
TDS (g/L)	1.16

HACH TEST KITS	
Alkalinity (g/g)	
Carbon Dioxide (mg/L)	
Ferrous Iron (mg/L)	
Manganese (mg/L)	
Hydrogen Sulfide (mg/L)	
DTW (ft)	0

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

SAMPLE SET

Parameter		Bottle	Pres.	Method
Select VOCs	☐	3-40mL glass vial	HCl	EPA 8260
MEE	☐	2-40mL glass vial	HCl	Lab SOP
Dissolved Inorganics	☐	1-250 mL plastic (Field Filtered)	HNO3	SW6010B
Chloride / Nitrate / Sulfate	☐	2-40mL glass (Field Filtered)	None	lab specified
Ortho Phosphate	☐	1-250 mL plastic (Field filtered)	None	EPA 365.1
Sulfide	☐	1-250 mL plastic (Field filtered)	NaOH/Zn Acetate	MS-45000-S2-F
Total Organic Carbon	☐	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	☐	1-120mL glass amber	None	SW9060
Microbial Census	☐			
Hydrogen Acetylene	☐			

Comments:

PARSONS

LOW FLOW WELL SAMPLING RECORD

Site Name: Jamestown MGP

Well ID: MW-05

Manual Entry:

Send to SharePoint

Well Diameter: 2 inches

Samplers: dan chamberland

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Initial Depth to Water (ft): 7.95

Depth to Well Bottom (ft): 16.34

Purging Data

Method: *(i.e. low flow)* low flow-geopump

Date: 07/25/2013

Time: 10:30 *(i.e. 14:32)*

1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4

Time (24hrs) (hhmm)	DTW (ft)	Pump Rate (ml/min)	Volume (gal.)	pH	DO (mg/L)	Turbidity (NTU)	Spec Cond (mS/cm)	Temp (°C)	TDS (g/L)	ORP (mV)	Comments
10:30	7.95	200	0.0	7.83	0.24	129	1.84	17.50	1.18	-45	clear, very light petroleum odor
10:40	8.35	200	0.5	7.60	0.0	55.4	1.84	16.58	1.18	-65	same
10:50	8.30	200	1.0	7.55	0.0	38.9	1.85	16.64	1.18	-61	same
10:55	8.31	200	1.3	7.51	0.0	37.2	1.84	16.60	1.18	-60	same
11:00	8.31	200	1.5	7.55	0.0	27.7	1.85	16.59	1.18	-61	same
11:05	8.32	200	1.7	7.54	0.0	23.7	1.85	16.56	1.19	-62	clear light petroleum odor
11:10	8.30	200	1.9	7.53	0.0	15.8	1.86	16.61	1.19	-63	same
11:15	8.31	200	2.2	7.54	0.0	12.6	1.86	16,55	1.19	-65	same

Sampling Data

Method: *(i.e. low flow)* low flow

Date: 07/25/2013

Time: *(i.e. 14:32)* 11:15

Total Volume of Water Purged: 2.2 (gal)

HORRIBA		HACH TEST KITS	
pH	7.54	Alkalinity (g/g)	
Spec. Cond. (mS/cm)	12.6	Carbon Dioxide (mg/L)	
Turbidity (NTU)		Ferrous Iron (mg/L)	
DO (mg/L)	0.00	Manganese (mg/L)	
Temp.(°C)	16.55	Hydrogen Sulfide (mg/L)	
ORP (mv)	-65	DTW (ft)	
TDS (g/L)	1.19	* NOTE * HACH test kits are only required for MNA analysis wells.	

Comments:

SAMPLE SET

Parameter		Bottle	Pres.	Method
Select VOCs	☐	3-40mL glass vial	HCl	EPA 8260
MEE	☐	2-40mL glass vial	HCl	Lab SOP
Dissolved Inorganics	☐	1-250 mL plastic (Field Filtered)	HNO3	SW6010B
Chloride / Nitrate / Sulfate	☐	2-40mL glass (Field Filtered)	None	lab specified
Ortho Phosphate	☐	1-250 mL plastic (Field filtered)	None	EPA 365.1
Sulfide	☐	1-250 mL plastic (Field filtered)	NaOH/Zn Acetate	MS-45000-S2-F
Total Organic Carbon	☐	2-40mL amber glass vial	H3PO4	SW9060
Total Inorganic Carbon	☐	1-120mL glass amber	None	SW9060
Microbial Census	☐			
Hydrogen Acetylene	☐			

PARSONS

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: Jamestown MGP
PROJECT NUMBER: 447950.02000
Sampling Date/Time: 11/25/13 14:20
Weather: Partly Cloudy, Calm, 25 degrees F
Samplers: D Chamberland of Parsons
of

SAMPLE ID: JT-MW-01_112513
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 0.60
Depth to Well Bottom (Ft.):

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

Volume Purged: 2 Gallons
Method: Low Flow Peristaltic

SAMPLE DESCRIPTION

Odor: None Observed
Other:

FIELD TESTS

Temperature:	11.30	C	Turbidity:	0.40	NTU
pH:	7.47		Dissolved O2:	1.78	mg/L
TDS	1.50	g/L	ORP	-180	mV
Conductivity:	2.34	mS/cm	Other:		

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOC, Cyanide, Metals, Hg, PCB, SVOA, Pesticides
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/25/13 14:20
Chain of Custody No.:
Shipped Via: Courier
Laboratory Spectrum Analytical

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

Well ID:					JT-MW-01						
Time	DTW (ft.)	Pump Rate (ml/Min)	Volume (gallons)	pH	Temp. (Degrees C)	Turbidity (NTUs)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Notes
13:40	0.60	200	0.0	7.42	10.88	23.1	2.34	2.11	-167	1.49	
13:50	0.90	200	0.5	7.45	11.14	8.2	2.34	1.88	-177	1.50	
14:00	0.91	200	1.0	7.46	11.15	5.8	2.34	1.86	-178	1.50	
14:10	0.94	200	1.3	7.46	11.33	2.5	2.34	1.81	-180	1.50	
14:15	0.96	200	1.6	7.47	11.33	0.8	2.34	1.78	-180	1.50	
14:20	0.97	200	1.8	7.47	11.30	0.4	2.34	1.78	-180	1.50	

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	Jamestown MGP		
PROJECT NUMBER:	447950.02000		
Sampling Date/Time:	11/25/13 9:05		
Weather:	Partly Cloudy, Calm, 25 degrees F		
Samplers:	D Chamberland	of	Parsons
		of	
SAMPLE ID:	JT-MW-02_112513		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	7.33				
Depth to Well Bottom (Ft.):					
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing: X	Ft. of Water in Well		x 0.16 =		Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:	2.5	Gallons			
Method:	Low Flow Peristaltic				

SAMPLE DESCRIPTION

Odor:	None Observed
Other:	

FIELD TESTS

Temperature:	10.39	C	Turbidity:	12.30	NTU
pH:	7.31		Dissolved O2:	2.46	mg/L
TDS	1.68	g/L	ORP	-155	mV
Conductivity:	2.63	mS/cm	Other:		

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	VOC, Cyanide, Metals, Hg, PCB, SVOA, Pesticides
QA/QC Sample ID	JT-MW-02_112513MS, JT-MW-02_112513MSD
Analyze QA/QC Samples For:	VOC, Cyanide, Metals, Hg, PCB, SVOA, Pesticides
Date/Time Refrigerated:	11/25/13 9:05
Chain of Custody No.:	
Shipped Via:	Courier
Laboratory	Spectrum Analytical

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

Well ID:				JT-MW-02							
Time	DTW (ft.)	Pump Rate (ml/Min)	Volume (gallons)	pH	Temp. (Degrees C)	Turbidity (NTUs)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Notes
8:20	7.33	200	0.0	7.60	11.57	62.1	2.54	4.55	-146	1.64	
8:30	7.96	200	0.5	7.26	10.93	23.0	2.57	3.56	-150	1.65	
8:40	8.06	200	1.0	7.26	10.83	15.3	2.57	3.07	-151	1.64	
8:45	8.09	200	1.3	7.26	10.71	14.7	2.57	2.88	-151	1.64	
8:50	8.11	200	1.5	7.26	10.60	13.8	2.57	2.76	-152	1.64	
8:55	8.11	200	1.7	7.27	10.51	15.1	2.57	2.66	-153	1.64	
9:00	8.12	200	1.9	7.28	10.43	16.1	2.56	2.56	-153	1.64	
9:05	8.13	200	2.2	7.31	10.39	12.3	2.63	2.46	-155	1.68	

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	Jamestown MGP		
PROJECT NUMBER:	447950.02000		
Sampling Date/Time:	11/25/13 11:50		
Weather:	Partly Cloudy, Calm, 25 degrees F		
Samplers:	A Kowalczk	of	Parsons
		of	
SAMPLE ID:	JT-MW-03_112513		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	1.08				
Depth to Well Bottom (Ft.):	15.3				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing: X	Ft. of Water in Well	14.22	x 0.16 =	2.28	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:	1.75	Gallons			
Method:	Low Flow Peristaltic				

SAMPLE DESCRIPTION

Odor:	None Observed
Other:	

FIELD TESTS

Temperature:	10.34	C	Turbidity:	5.10	NTU
pH:	7.69		Dissolved O2:	0.00	mg/L
TDS	1.40	g/L	ORP	-137	mV
Conductivity:	2.18	mS/cm	Other:		

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	VOC, Cyanide, Metals, Hg, PCB, SVOA, Pesticides
QA/QC Sample ID	JT-MW-030_112513
Analyze QA/QC Samples For:	VOC, Cyanide, Metals, Hg, PCB, SVOA, Pesticides
Date/Time Refrigerated:	11/25/13 11:50
Chain of Custody No.:	
Shipped Via:	Courier
Laboratory	Spectrum Analytical

COMMENTS / MISCELLANEOUS

Duplicate Collected

PARSONS
GROUNDWATER SAMPLING RECORD

Well ID:				JT-MW-03							
Time	DTW (ft.)	Pump Rate (ml/Min)	Volume (gallons)	pH	Temp. (Degrees C)	Turbidity (NTUs)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Notes
10:50	1.34	250	0.10	5.88	9.79	644.0	2.22	0.00	4	1.42	
10:55	1.35	250	0.20	6.90	9.78	219.0	2.24	0.00	-59	1.43	
11:00	1.37	250	0.35	7.38	10.32	70.7	2.21	0.00	-103	1.42	
11:05	1.36	250	0.45	7.44	10.43	69.0	2.20	0.00	-108	1.41	
11:10	1.37	250	0.50	7.51	10.55	35.8	2.20	0.00	-113	1.40	
11:15	1.38	250	0.60	7.58	10.62	10.7	2.19	0.00	-120	1.40	
11:20	1.38	250	0.75	7.60	10.61	8.0	2.19	0.00	-123	1.40	
11:25	1.38	250	0.90	7.62	10.65	6.6	2.18	0.00	-125	1.40	
11:30	1.39	250	1.10	7.64	10.55	5.3	2.19	0.00	-128	1.40	
11:35	1.38	250	1.30	7.66	10.45	5.2	2.18	0.00	-132	1.40	
11:40	1.38	250	1.40	7.67	10.45	5.0	2.20	0.00	-134	1.40	
11:45	1.38	250	1.60	7.69	10.34	5.1	2.18	0.00	-137	1.40	

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME:	Jamestown MGP		
PROJECT NUMBER:	447950.02000		
Sampling Date/Time:	11/25/13 13:30		
Weather:	Partly Cloudy, Calm, 25 degrees F		
Samplers:	A Kowalczk	of	Parsons
		of	
SAMPLE ID:	JT-MW-04_112513		
Sampling Method:	Low Flow		

WELL PURGING

Static Water Level (TOC):	-0.30				
Depth to Well Bottom (Ft.):	15.42				
CALCULATIONS:	Ft. of Water in Well		X (GAL / FT) =		Gallons
2-inch Casing: X	Ft. of Water in Well	15.72	x 0.16 =	2.52	Gallons
3-inch Casing:	Ft. of Water in Well		x 0.32 =		Gallons
24inch Casing:	Ft. of Water in Well		x 0.64 =		Gallons
Volume Purged:	4	Gallons			
Method:	Low Flow Peristaltic				

SAMPLE DESCRIPTION

Odor:	None Observed
Other:	

FIELD TESTS

Temperature:	12.61	C	Turbidity:	13.70	NTU
pH:	7.38		Dissolved O2:	0.00	mg/L
TDS	1.35	g/L	ORP	53	mV
Conductivity:	2.12	mS/cm	Other:		

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For:	VOC, Cyanide, Metals, Hg, PCB, SVOA, Pesticides
QA/QC Sample ID	
Analyze QA/QC Samples For:	
Date/Time Refrigerated:	11/25/13 13:30
Chain of Custody No.:	
Shipped Via:	Courier
Laboratory	Spectrum Analytical

COMMENTS / MISCELLANEOUS

Static water level above top of casing

PARSONS
GROUNDWATER SAMPLING RECORD

Well ID: JT-MW-04

Time	DTW (ft.)	Pump Rate (ml/Min)	Volume (gallons)	pH	Temp. (Degrees C)	Turbidity (NTUs)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Notes
12:55	-0.35	500	0.3	7.47	12.07	71.7	2.14	0.00	44	1.36	
13:00	-0.35	500	0.8	7.41	12.59	25.8	2.09	0.00	45	1.34	
13:05	-0.35	500	1.2	7.39	12.66	10.5	2.10	0.00	47	1.34	
13:10	-0.35	500	1.8	7.39	12.63	11.0	2.10	0.00	48	1.35	
13:15	-0.35	500	2.2	7.38	12.69	10.4	2.11	0.00	49	1.35	
13:20	-0.35	500	2.6	7.38	12.62	12.9	2.11	0.00	50	1.35	
13:25	-0.35	500	3.0	7.38	12.65	14.4	2.11	0.00	51	1.35	
13:30	-0.35	500	3.5	7.38	12.61	13.7	2.12	0.00	53	1.35	

PARSONS
GROUNDWATER SAMPLING RECORD

SITE NAME: Jamestown MGP
PROJECT NUMBER: 447950.02000
Sampling Date/Time: 11/25/13 12:30
Weather: Partly Cloudy, Calm, 25 degrees F
Samplers: D Chamberland of Parsons
of

SAMPLE ID: JT-MW-05_112513
Sampling Method: Low Flow

WELL PURGING

Static Water Level (TOC): 7.87
Depth to Well Bottom (Ft.):

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

Volume Purged: 1.8 Gallons
Method: Low Flow Peristaltic

SAMPLE DESCRIPTION

Odor: None Observed
Other:

FIELD TESTS

Temperature:	9.82	C	Turbidity:	3.70	NTU
pH:	7.10		Dissolved O2:	2.09	mg/L
TDS	1.53	g/L	ORP	-127	mV
Conductivity:	2.40	mS/cm	Other:		

SAMPLE ANALYSIS / QA/QC / CHAIN OF CUSTODY

Analyze For: VOC, Cyanide, Metals, Hg, PCB, SVOA, Pesticides
QA/QC Sample ID
Analyze QA/QC Samples For:
Date/Time Refrigerated: 11/25/13 12:30
Chain of Custody No.:
Shipped Via: Courier
Laboratory Spectrum Analytical

COMMENTS / MISCELLANEOUS

PARSONS

GROUNDWATER SAMPLING RECORD

Well ID:				JT-MW-05							
Time	DTW (ft.)	Pump Rate (ml/Min)	Volume (gallons)	pH	Temp. (Degrees C)	Turbidity (NTUs)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Notes
12:00	7.87	200	0.0	7.83	3.62	332.0	2.81	4.74	-174	2.07	
12:10	8.20	200	0.5	8.20	9.51	32.2	2.39	2.28	-126	1.53	
12:20	8.19	200	1.0	7.09	9.74	9.6	2.46	2.12	-123	1.54	
12:25	8.19	200	1.3	7.09	7.78	3.7	2.42	2.09	-125	1.53	
12:30	8.20	200	1.6	7.10	9.82	1.2	2.40	2.09	-127	1.53	