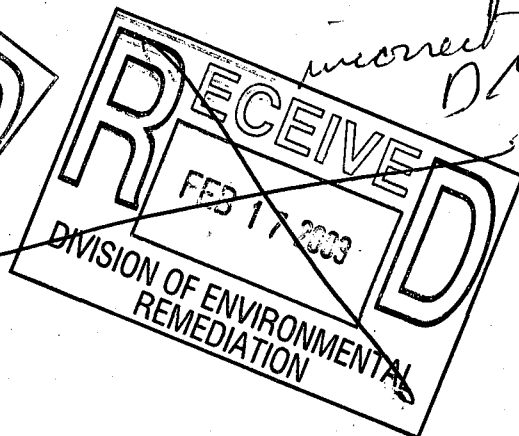
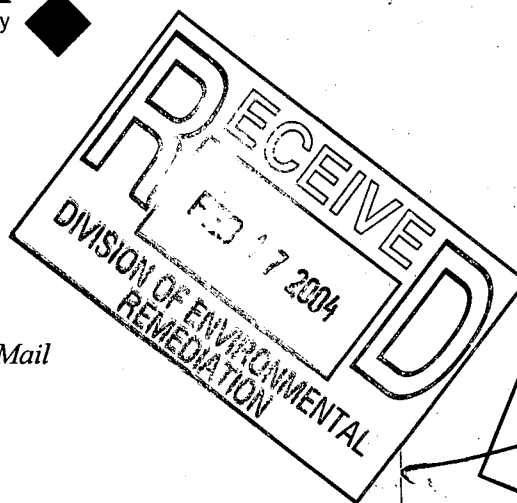


Niagara Mohawk

A National Grid Company



Transmitted Via U. S. Mail

February 12, 2004

Mr. Douglas K. MacNeal
Environmental Engineer
Bureau of Western Remedial Action
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7017

Re: Niagara Mohawk, a National Grid Company
North Albany Service Center
Annual Groundwater Monitoring/
Non-Aqueous Phase Liquid Monitoring and Recovery Activities
USEPA ID No: NYD000730408

401040

Dear Mr. MacNeal:

This letter presents the results of annual groundwater monitoring activities conducted during November 2002 at the Niagara Mohawk, a National Grid Company (Niagara Mohawk) North Albany Service Center located in Albany, New York. In addition, this letter presents the results of quarterly non-aqueous phase liquid (NAPL) monitoring and recovery activities conducted at the service center between February and November 2002. The annual groundwater monitoring and quarterly NAPL monitoring and recovery activities described in this letter were conducted as part of ongoing efforts to address former manufactured gas plant- (MGP-) related environmental concerns at the North Albany Service Center property.

The annual groundwater monitoring activities described herein were conducted by Blasland, Bouck, & Lee, Inc. (BBL) to evaluate potential changes in the distribution of dissolved constituents in groundwater in the vicinity of the site. The groundwater monitoring activities were conducted in accordance with the field protocols outlined in the Quality Assurance Project Plan (QAPjP), which was included as an appendix to the New York State Department of Environmental Conservation- (NYSDEC-) approved *MGP/RCRA Investigation and Remedial Measures Evaluation Work Plan* (BBL, August 1996). The annual groundwater monitoring activities consisted of the following:

- Obtaining fluid level measurements from existing onsite and offsite monitoring wells/piezometers to determine the direction of groundwater flow and compare the results with the conditions encountered during previous monitoring events; and

- Collecting groundwater samples from select onsite and offsite monitoring wells to evaluate potential changes in groundwater quality from previous sampling events.

The quarterly NAPL monitoring and recovery activities described herein were conducted between February and November 2002 in accordance with an April 10, 2000 letter from Niagara Mohawk to the NYSDEC. The quarterly NAPL monitoring and recovery activities consisted of the following:

- Monitoring select wells in the vicinity of the site on a quarterly basis for the presence of light, non-aqueous phase liquid (LNAPL) and dense, non-aqueous phase liquid (DNAPL);
- Passively recovering LNAPL from select monitoring wells using dedicated polyethylene bailers and containerizing the LNAPL for offsite disposal in accordance with applicable regulations; and
- Attempting to recover DNAPL from select monitoring wells using manual bailing and pumping techniques.

A detailed discussion of the annual groundwater monitoring activities is presented below, followed by a discussion of the quarterly NAPL monitoring and recovery activities.

Annual Groundwater Monitoring Activities

The objectives of the annual groundwater monitoring activities included the following:

- Obtain groundwater elevation data from monitoring wells/piezometers in the vicinity of the site to evaluate the groundwater flow direction and velocity, and compare the results with groundwater flow conditions encountered during previous monitoring events;
- Obtain groundwater analytical data to confirm the results of previous sampling events, and compare the results to the Class GA groundwater standards and guidance values presented in the NYSDEC document entitled, "Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1), reissued June 1998 and addended April 2000; and
- Assess potential changes in the concentrations of chemical constituents in groundwater samples collected from downgradient monitoring wells relative to concentrations observed during previous groundwater monitoring events.

The annual groundwater monitoring field activities are described below, followed by a summary of the annual groundwater monitoring results.

I. Annual Groundwater Monitoring Field Activities

The annual groundwater monitoring field activities were conducted by BBL during November 2002 and consisted of obtaining fluid-level measurements and collecting groundwater samples for laboratory analysis from most of the groundwater monitoring wells that have previously been installed in the vicinity of the site. A detailed discussion of the annual groundwater monitoring field activities is presented below.

Fluid Level Measurement

Prior to collecting groundwater samples, BBL obtained static fluid level measurements from each existing onsite and offsite monitoring well/piezometer on November 12 and 13, 2002. Fluid levels were measured to the nearest 0.01 foot using an electronic oil-water interface probe to determine the depth from a surveyed mark on the top of the inner polyvinyl chloride (PVC) well casing to the groundwater and LNAPL surfaces (where applicable) within the well. For wells where LNAPL was encountered on the water surface, density-compensated water levels (adjusted based on the NAPL thickness and density) were calculated to account for the presence of LNAPL.

Fluid level measurements were converted into elevations using the surveyed well elevations. Calculated groundwater elevations for each onsite and offsite monitoring well are listed in Table 1. A shallow groundwater potentiometric surface contour map developed from the November 12 and 13, 2002 density-compensated groundwater elevation measurements is included as Figure 1. However, groundwater elevations presented in Table 1 represent the true field measurements and are not density-compensated readings. Table 1 also includes the groundwater elevation measurements collected during previous monitoring of specific wells (as part of previous NAPL monitoring and recovery activities), as well as the measurements obtained for five previous full rounds of groundwater elevation measurements obtained during: June 1997; July 1998; July 1999; November 2000; and October 2001.

Groundwater Sampling

Groundwater samples were collected between November 11 and 21, 2003 from 32 existing groundwater monitoring wells/piezometers in the vicinity of the site. Groundwater samples were not collected from monitoring wells/piezometers where NAPL was encountered.

In accordance with the groundwater sampling procedures outlined in the QAPjP, low-flow sampling techniques were used to purge groundwater from each monitoring well prior to collecting groundwater samples. Field parameters (consisting of turbidity, temperature, pH, conductivity, oxidation reduction potential [ORP], and dissolved oxygen) were measured approximately every 5 to 10 minutes during well purging, and the depth to water was monitored throughout the pumping process to minimize drawdown within the well. A summary of the field parameters measured at the time of groundwater sampling is presented in Table 2. Copies of the groundwater sampling logs are included in Attachment A.

Well purging activities continued at each well until the field parameters stabilized and the turbidity of the water in the wells was reduced to less than 50 nephelometric turbidity units (NTUs). Groundwater samples were then collected from each monitoring well/piezometer using low-flow sampling techniques. Groundwater samples were collected using a peristaltic pump and dedicated polyethylene tubing (with the exception of samples collected for analysis for volatile organic compounds [VOCs]). Groundwater samples submitted for laboratory analysis for VOCs were collected using disposable bailers.

Groundwater samples were submitted to Severn Trent Laboratories, Inc. (Severn Trent) located in Amherst, New York for laboratory analysis of target compound list (TCL) VOCs, TCL semi-volatile organic compounds (SVOCs), target analyte list (TAL) inorganic constituents, and cyanide. A groundwater sample collected from monitoring well MW-21R was also submitted for laboratory analysis for polychlorinated biphenyls (PCBs) to evaluate the previous detection of PCBs in groundwater samples

collected from this location during prior monitoring events. Analytical methods used for the laboratory analysis of the groundwater samples are presented in the table below.

Parameter	Analytical Method
PCBs	USEPA SW-846 Method 8082
TCL VOCs	USEPA SW-846 Method 8260
TCL SVOCs	USEPA SW-846 Method 8270
TAL Inorganics	USEPA SW-846 Methods 6010/7000
Cyanide	USEPA SW-846 Method 9010

Quality assurance/quality control (QA/QC) samples, including blind duplicates (collected from monitoring wells MW-17S and MW-28S), rinse blanks, trip blanks, matrix spike, and matrix spike duplicate samples were submitted as required by the QAPjP.

Each of the groundwater samples collected as part of the sampling activities was handled, labeled, packaged, and shipped in accordance with the protocols outlined in the MGP/RCRA Investigation Work Plan. Purge water generated during the sampling activities was collected in 5-gallon buckets and transferred into a polyethylene tank for characterization prior to offsite treatment/disposal in accordance with applicable regulations.

The analytical results for the laboratory analysis of the groundwater samples were reported on a standard turnaround basis (i.e., 3 to 4 weeks). Analytical results for the groundwater samples submitted for laboratory analysis for PCBs, TCL VOCs, TCL SVOCs, and TAL inorganic constituents were reported using NYSDEC Analytical Services Protocol (ASP) Category B data deliverable packages to facilitate data validation.

II. Annual Groundwater Monitoring Results

A detailed discussion of the annual groundwater monitoring results (including groundwater flow conditions and groundwater sampling results) is presented below.

Groundwater Flow Conditions

Based on the November 2002 groundwater level measurements, groundwater within shallow overburden beneath the site appears to flow in a general southeast direction (which is consistent with the groundwater flow direction observed during previous groundwater monitoring events). A shallow groundwater potentiometric surface contour map depicting the November 2002 groundwater elevations is presented as Figure 1.

Based on the November 2002 groundwater level measurements from the three bedrock wells (MW-16R, MW-21R, and MW-22R), groundwater flow within the shallow bedrock appears to flow in a general east to southeast direction.

Groundwater flow velocities within the shallow overburden were estimated using the calculated geometric mean horizontal hydraulic conductivity value for shallow overburden, the average hydraulic gradients (0.015 ft/ft) estimated from the shallow groundwater potentiometric surface contour map, and an estimated effective porosity (0.3, obtained from evaluating literature values of effective porosities for

different types of soils). The average linear groundwater flow velocity within the shallow overburden was calculated using the following equation (Fetter, 1988):

$$V=Ki/n_e$$

where:

- V = average linear groundwater flow velocity;
- K = horizontal hydraulic conductivity (44.9 feet/day);
- i = horizontal hydraulic gradient (0.015 ft/ft, as discussed above); and
- n_e = effective porosity (assumed value of 0.3).

Using the above equation, the average horizontal groundwater flow velocity in shallow overburden was calculated to be 2.24 feet/day, which is generally consistent with the flow velocities calculated from previous monitoring events.

Groundwater Analytical Results

Analytical results obtained for the laboratory analysis of groundwater samples collected during the November 2002 annual monitoring activities are summarized below. The discussion below includes a comparison of the analytical results obtained for the laboratory analysis of the groundwater samples with the Class GA groundwater standards and guidance values presented in TOGS 1.1.1. Laboratory analytical reports generated for the analysis of the groundwater samples were submitted for data validation by BBL's independent data validation staff. Validated analytical results are included in Attachment B.

PCBs

Analytical results obtained for the laboratory analysis of groundwater sample MW-21R for PCBs are presented in Table 3. As indicated in Table 3, Aroclor 1254 was detected in the groundwater sample and duplicate sample collected from monitoring well MW-21R at estimated concentrations of 0.056 parts per billion (ppb) and 0.061 ppb, respectively. The estimated concentrations of PCBs detected in the groundwater samples collected from monitoring well MW-21R were below the 0.09 ppb NYSDEC Class GA groundwater quality standard for PCBs as presented in TOGS 1.1.1.

TCL VOCs

Analytical results obtained for the laboratory analysis of the groundwater samples for TCL VOCs are presented in Table 4 and shown on Figure 2. A summary of the analytical results for TCL VOCs that were detected in the groundwater samples is presented below.

Detected Compound	NYSDEC Class GA Groundwater Standards and Guidance Values (ppb)	Number of Sample Locations where Compound was Detected *	Range of Detected Concentrations (ppb)	Sample Exhibiting Maximum Concentration
Acetone	50 G	3	2 J – 55 J	MW-17D
Benzene	1.0	10	9 J – 400 D	MW-27D
Carbon Disulfide	60 G	1	2 J	MW-28D
Chloromethane	5.0	4	1 J – 3 J	MW-28D
Ethylbenzene	5.0	8	3 J – 1,100 J	MW-28S

Detected Compound	NYSDEC Class GA Groundwater Standards and Guidance Values (ppb)	Number of Sample Locations where Compound was Detected *	Range of Detected Concentrations (ppb)	Sample Exhibiting Maximum Concentration
Isopropylbenzene	5.0	7	1J - 44	MW-27D
Methyl tert-butyl ether	10	8	1 J - 18 J	MW-14
Styrene	5.0	2	5 J - 130 J	MW-28S
Toluene	5.0	7	1 J - 310 J	MW-28S
Total Xylenes	5.0 X	8	1 J - 970 J	MW-28S
Notes: 1. Concentrations presented in micrograms per liter (ug/L) or parts per billion (ppb). 2. J - Estimated value. 3. D - The reported concentration is the result of a diluted sample analysis. 4. G - Guidance Value. 5. NA - Indicates that a NYSDEC Groundwater Standard/Guidance Value is not available for the indicated parameter. 6. NYSDEC Class GA groundwater standards and guidance values from TOGS 1.1.1 (NYSDEC, June 1998). 7. X - Indicates that the groundwater standard applies to each individual isomer. 8. * - Sample quantities do not include duplicate samples.				

Several TCL VOCs were detected in groundwater samples (not including duplicate samples) collected from 10 of the 32 groundwater monitoring wells sampled during the annual groundwater monitoring event at concentrations exceeding the NYSDEC groundwater quality standards/guidance values presented in TOGS 1.1.1. TCL VOCs detected in groundwater samples at concentrations exceeding the NYSDEC groundwater standards/guidance values included acetone, benzene, ethylbenzene, isopropylbenzene, methyl tert-butyl ether, styrene, toluene, and total xylenes. None of the groundwater samples collected from the farthest downgradient monitoring wells (including locations MW-21S(R), MW-21D, MW-21R, MW-22S, MW-22D, MW-22R, MW-24S, and MW-25S) contained TCL VOCs at concentrations exceeding the NYSDEC Class GA groundwater standards and/or guidance values.

TCL SVOCs

Analytical results obtained for the laboratory analysis of the groundwater samples for TCL SVOCs are presented in Table 5 and shown on Figure 2. Analytical results for TCL SVOCs that were detected in the groundwater samples are summarized below.

Detected Compound	NYSDEC Class GA Grdwtr Stds and Guidance Values (ppb)	# of Sample Locations where Compound was Detected*	Range of Detected Concentrations (ppb)	Sample Exhibiting Maximum Concentration
2,4-Dimethylphenol	1 a	2	0.8 J - 1 J	MW-18S
2-Methylnaphthalene	NA	10	0.7 J - 230 DJ	MW-27D
2-Methylphenol	1 a	1	0.4 J	MW-28D
4-Methylphenol	1 a	1	2 J	MW-16R
Acenaphthene	20 G	12	0.6 J - 320 D	MW-27D
Acenaphthylene	NA	7	0.5 J - 150 DJ	MW-28S
Acetophenone	NA	3	1 J - 3 J	MW-18S
Anthracene	50 G	6	0.5 J - 17 J	MW-27D / MW-27S
Benzo(a)anthracene	0.002 G	4	0.3 J - 0.8 J	MW-27S
Benzo(a)pyrene	ND	1	0.3 J	MW-27S
Benzo(b)fluoranthene	0.002 G	1	0.3 J	MW-27S
Benzo(k)fluoranthene	0.002 G	1	0.2 J	MW-20D
Biphenyl	5.0	8	0.6 J - 54 J	MW-28S

Detected Compound	NYSDEC Class GA Grdwater Stds and Guidance Values (ppb)	# of Sample Locations where Compound was Detected*	Range of Detected Concentrations (ppb)	Sample Exhibiting Maximum Concentration
Bis(2-ethylhexyl)phthalate	5	5	0.4 J – 0.8 J	MW-23S
Butyl benzyl phthalate	50 G	1	0.3 J	MW-23S
Carbazole	NA	9	0.3 J – 7 J	MW-28S
Chrysene	0.002 G	3	0.4 J – 0.8 J	MW-27S
Di-n-butyl phthalate	50	6	0.3 J – 0.8 J	MW-17D
Dibenzofuran	NA	7	0.5 J – 9 J	MW-27D
Fluoranthene	50 G	6	0.3 J – 11 J	MW-27D
Fluorene	50 G	10	0.4 J – 62 J	MW-27S
Naphthalene	10 G	19	0.3 J – 5,400 DJ	MW-28S
Phenanthrene	50 G	8	0.3 J – 62 J	MW-27D
Phenol	1 a	7	1 J – 4 J	MW-28S
Pyrene	50 G	6	0.4 J – 12 J	MW-27D

Notes:

1. Concentrations presented in micrograms per liter (ug/L) or parts per billion (ppb).
2. J – Estimated value.
3. D – The reported concentration is the result of a diluted sample analysis.
4. G – Guidance Value.
5. a – Value listed applies to the sum of phenolic compounds.
6. NYSDEC Class GA groundwater standards and guidance values from TOGS 1.1.1 (NYSDEC, June 1998).
7. NA – Indicates that a NYSDEC Groundwater Standard/Guidance Value is not available for the indicated parameter.
8. ND – Not Detected.
9. * - Sample quantities do not include duplicate samples.

TCL SVOCs were detected in groundwater samples (not including duplicate samples) collected from 9 of the 32 monitoring wells sampled during the annual groundwater monitoring event at concentrations exceeding the NYSDEC groundwater quality standards/guidance values presented in TOGS 1.1.1. The groundwater sampling results indicate that several SVOCs (including 4-methylphenol, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, biphenyl, chrysene, fluorene, naphthalene, phenanthrene, and phenol) were detected in groundwater samples at concentrations exceeding the NYSDEC Class GA groundwater quality standards/guidance values presented in TOGS 1.1.1.

Acenaphthene was detected in the groundwater samples collected from offsite monitoring wells MW-16R, MW-17D and MW-18S at estimated concentrations that exceeded the NYSDEC Class GA groundwater quality standard. In addition, biphenyl was detected in offsite monitoring well MW-16R, phenol was detected in offsite monitoring well MW-17S, and naphthalene was detected in offsite monitoring well MW-18S at estimated concentrations that exceeded the NYSDEC groundwater quality standards/guidance values. No other SVOCs were detected in groundwater samples collected from the farthest downgradient monitoring wells (including locations MW-21S(R), MW-21D, MW-21R, MW-22S, MW-22D, MW-22R, MW-24S, and MW-25S) at concentrations exceeding the NYSDEC Class GA groundwater standards and/or guidance values.

TAL Inorganic Constituents

Analytical results obtained for the laboratory analysis of the groundwater samples for TAL inorganic constituents are presented in Table 6 and shown on Figure 3. Analytical results obtained for the laboratory analysis of the groundwater samples for TAL inorganic constituents are summarized below

(with the exception of typical mineral constituents, including aluminum, calcium, iron, magnesium, manganese, potassium, and sodium).

Detected Compound	NYSDEC Groundwater Standards and Guidance Values (ppb)	Number of Sample Locations where Compound was Detected	Range of Detected Concentrations (ppb)	Sample Exhibiting Maximum Concentration
Arsenic	25	11	4.1 B – 28.5	MW-14
Barium	1,000	32	52.2 B – 7,910	MW-28D
Cadmium	5	3	0.35 B – 1.8 J	MW-03
Chromium	50	20	0.69 B – 5.1 B	MW-27S
Cobalt	NA	13	0.72 B – 4.9 B	MW-19D
Copper	200	19	0.7 B – 14.9 B	MW-26S
Cyanide	200	22	10.6 J – 418 J	MW-06A
Lead	25	11	2.8 B – 9.4	MW-03
Mercury	0.7	2	0.042 B – 0.053 B	MW-28S
Nickel	100	11	1 B – 6.2 B	MW-12
Selenium	10	3	4.2 B – 5.2	MW-26S
Silver	50	3	0.52 B – 0.75 B	MW-12
Vanadium	NA	9	0.79 B – 6 B	MW-28S
Zinc	2,000 G	23	1.9 B – 28.2	MW-23S
Notes:				
1. Concentrations presented in micrograms per liter (ug/L) or parts per billion (ppb).				
2. G – Guidance Value.				
3. NYSDEC Class GA groundwater standards and guidance values from TOGS 1.1.1 (NYSDEC, June 1998).				
4. NA – Indicates that an NYSDEC Groundwater Standard/Guidance Value is not available for the indicated parameter.				
5. * - Sample quantities do not include duplicate samples.				

Several TAL inorganic constituents (including arsenic, barium, and cyanide) were detected at concentrations exceeding the NYSDEC Class GA groundwater quality standards/guidance values presented in TOGS 1.1.1. TAL inorganic constituents detected in groundwater samples collected during the November 2002 annual groundwater monitoring event were generally similar to those detected in groundwater samples collected during previous sampling events.

III. Comparison of Groundwater Analytical Results with Previous Sampling Events

Results obtained for the analysis of the groundwater samples collected as part of the November 2002 monitoring event were compared with the results from previous sampling events to evaluate changes in the distribution of chemical constituents in groundwater in the vicinity of the site. TAL inorganic constituent concentrations detected in groundwater samples collected during the November 2002 annual groundwater monitoring event are generally similar to those detected in groundwater samples collected during previous sampling events. For the purposes of comparing VOC and SVOC results for the November 2002 groundwater monitoring event with the results for previous groundwater sampling events, it is useful to look at specific dissolved compounds that are frequently encountered at former MGP sites, including benzene, toluene, ethylbenzene, and xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAHs). A comparison of the BTEX and PAH results for groundwater samples collected from specific onsite monitoring wells (located within the former MGP area) and from offsite monitoring wells for the November 2002 sampling event and the previous sampling events is presented below.

Onsite Monitoring Wells

A summary of the analytical results obtained for the analysis of groundwater samples collected from specific onsite monitoring wells located in the former MGP area (including MW-14, MW-26S, MW-27S, MW-27D, MW-28S, and MW-28D) for BTEX and PAH compounds for the November 2002 monitoring event and other previous sampling events is presented in Table 7.

Both BTEX and PAH compounds were detected at concentrations exceeding the NYSDEC Class GA groundwater quality standards and/or guidance values in groundwater samples collected from onsite monitoring wells MW-14, MW-27S, MW-27D, and MW-28S during the November 2002 monitoring event. BTEX compounds were also detected at concentrations exceeding the NYSDEC Class GA standards in the groundwater sample collected from onsite monitoring well MW-28D. Analytical results obtained for the laboratory analysis of groundwater samples collected from onsite monitoring wells MW-14, MW-26S, and MW-28D for BTEX compounds are generally lower relative to the results obtained from the previous monitoring events. Groundwater analytical results for the analysis of samples collected from onsite monitoring wells MW-27S, MW-27D, and MW-28S for BTEX compounds remained consistent with or increased relative to the results obtained for the previous monitoring events.

Analytical results for PAH compounds in groundwater samples collected during the November 2002 monitoring event from onsite monitoring wells MW-14, MW-26S, MW-27S, MW-27D, MW-28S, and MW-28D remained generally consistent with or indicated a general reduction relative to samples collected during previous monitoring events.

Offsite Monitoring Wells

A summary of the analytical results obtained for the analysis of groundwater samples collected from offsite monitoring wells (including MW-16R, MW-17S, MW-17D, MW-18S, and MW-23S) for BTEX and PAH compounds for the November 2002 monitoring event and other previous sampling events is presented in Table 8. In addition, a graphical comparison of the historical and current analytical results is included in Attachment C.

Both BTEX and PAH compounds were detected at concentrations exceeding the NYSDEC Class GA groundwater quality standards and guidance values in groundwater samples collected from offsite monitoring wells MW-16R and MW-18S during the November 2002 monitoring event. BTEX compounds were also detected at concentrations exceeding the NYSDEC Class GA groundwater quality standards/guidance values in groundwater samples collected from offsite monitoring wells MW-17D and MW-23S.

The analytical results obtained for the laboratory analysis of groundwater samples collected from offsite monitoring wells for BTEX compounds do not indicate a consistent trend relative to previous monitoring events. Results obtained for the analysis of groundwater samples collected from monitoring wells MW-16R, MW-17S, and MW-23S indicate a general reduction in BTEX concentrations in comparison with previous sampling activities. Results obtained for the analysis of groundwater samples collected from monitoring wells MW-17D and MW-18S indicate a general increase in BTEX concentrations in comparison with previous sampling activities, with the exception of toluene in monitoring well MW-17D.

Analytical results obtained for the laboratory analysis of groundwater samples collected from offsite monitoring wells for PAH compounds remained generally consistent with and in some cases indicated a general reduction relative to previous sampling activities.

Quarterly NAPL Monitoring and Recovery Activities

The objectives of the quarterly NAPL monitoring and recovery activities included the following:

- Provide data to monitor the presence, thickness, and recharge rate of NAPL within select onsite monitoring wells; and
- Obtain sufficient data to evaluate requirements for continued monitoring of NAPL in the vicinity of the service center property.

A description of the quarterly NAPL monitoring and recovery field activities is presented below, followed by a summary of the quarterly NAPL monitoring and recovery results.

I. Quarterly NAPL Monitoring and Recovery Field Activities

Quarterly NAPL monitoring and recovery activities were conducted during February 2002, May 2002, September 2002, and November 2002. A summary of the NAPL monitoring activities is presented below followed by a description of the NAPL recovery activities.

NAPL Monitoring Activities

Quarterly NAPL monitoring activities consisted of monitoring select wells where NAPL had been previously identified to evaluate the presence/thickness of LNAPL and DNAPL within the wells. The specific wells that were monitored for LNAPL and DNAPL are listed below.

LNAPL

- Monitoring wells MW-04, MW-08, MW-10, and MW-13, where LNAPL has been observed during previous investigations;
- Monitoring wells MW-26S, MW-27S, and MW-28S, which are located within the probable limits of the LNAPL distribution; and
- Monitoring wells MW-15S, MW-17S, MW-18S, MW-23S, and MW-25S, which were selected to monitor for potential downgradient migration of LNAPL from areas where LNAPL was previously observed.

DNAPL

- Monitoring wells MW-02, MW-05, MW-06S, and MW-07, where DNAPL has been observed during previous investigations;
- Monitoring wells MW-06A, MW-13, MW-14, MW-26D, MW-27D, and MW-28D, which are located within the probable limits of the DNAPL distribution; and
- Monitoring wells MW-16D and MW-17D, which were selected to monitor for potential downgradient migration of DNAPL from areas where DNAPL was previously observed.

In wells where NAPL was previously detected, an oil/water interface probe was initially used to determine the presence and thickness of LNAPL in the well. At monitoring wells where DNAPL had been previously encountered, a clear bottom-loading bailer was used after monitoring for LNAPL to confirm DNAPL measurements (in order to avoid measurement errors due to LNAPL coating the interface probe). The interface probe and/or bailers were slowly lowered into the wells to minimize disturbances to the water column. In the remaining wells where NAPL had not been previously detected, the presence/absence of NAPL was confirmed using a clear polypropylene bailer.

After obtaining NAPL measurements, attempts were made to recover NAPL from the monitoring wells using the procedures described below.

NAPL Recovery Activities

NAPL recovery activities consisted of collecting LNAPL and DNAPL to the extent possible for offsite disposal. Descriptions of the methods employed to remove the LNAPL and DNAPL are presented below.

LNAPL Recovery

Where encountered, LNAPL was recovered, to the extent possible, using a disposable bottom-loading polypropylene bailer and/or a peristaltic pump. Within each well where LNAPL was encountered, the bottom of the bailer and/or pump tubing was lowered to a depth just below the LNAPL/water interface in order to recover the LNAPL. Field personnel recorded the appearance and thickness of the LNAPL layer present in the well. By measuring the total thickness of the LNAPL recovered from each well, the volume of LNAPL recovered from each well was calculated and recorded on field logs. The LNAPL recovered from each well was emptied into a 5-gallon bucket and transferred to a 55-gallon drum for storage for future transportation and offsite treatment/disposal in accordance with applicable regulations. The specific wells where LNAPL was encountered and the amounts of LNAPL recovered are presented in the following section. LNAPL data collection field logs are included in Attachment D.

DNAPL Recovery

Where encountered, attempts were made to recover DNAPL to the extent possible using a free product sampler (FPS) attached to the bottom of a disposable polypropylene bailer and a peristaltic pump. The bailer/FPS was lowered to the bottom of each well in which DNAPL was encountered in an attempt to recover the product. Attempts were also made to recover DNAPL by pumping with a peristaltic pump. The specific wells where DNAPL was encountered and the amounts of DNAPL recovered are presented in the following section. DNAPL data collection field logs are included in Attachment D.

II. Quarterly NAPL Monitoring and Recovery Results

LNAPL/DNAPL thicknesses measured during the 2002 quarterly monitoring events are summarized in Table 9. The discussion below includes a summary of the LNAPL and DNAPL thicknesses observed in the monitoring wells and the volumes of LNAPL and DNAPL recovered.

Quarterly LNAPL Monitoring and Recovery Results

Detectable amounts of LNAPL were encountered within monitoring wells MW-04, MW-08, MW-10, and MW-13 during the quarterly monitoring activities between February 2002 and November 2002. Observed LNAPL thicknesses are summarized in the table below.

Monitoring Well ID	Measured LNAPL Thickness (feet)				Total LNAPL Removed (gal)
	February 2002	May 2002	September 2002	November 2002	
MW-04	Trace	0.05	0.03	Trace	0.008
MW-08	0.15	Trace	0.07	0.05	0.044
MW-10	0.19	0.10	0.14	0.22	0.106
MW-13	Trace	Trace	Trace	Trace	NA
MW-14	ND	ND	ND	ND	NA
MW-15S	ND	ND	ND	ND	NA
MW-17S	ND	ND	ND	ND	NA
MW-18S	ND	ND	ND	ND	NA
MW-23S	ND	ND	ND	ND	NA
MW-25S	ND	ND	ND	ND	NA
MW-26S	Trace	ND	ND	ND	NA
MW-27S	ND	ND	ND	ND	NA
MW-28S	ND	ND	ND	ND	NA
Estimated Total Volume of LNAPL Removed					0.158 gal.
Notes: 1. Wells monitored on a quarterly basis (approximately every three months) during 2002. 2. ND – LNAPL was checked for, but not detected. 3. Trace – LNAPL was observed, however, measurable thicknesses were not encountered. 4. NA – Not applicable.					

Quarterly DNAPL Monitoring and Recovery Results

During the quarterly NAPL monitoring and recovery activities, DNAPL was detected in monitoring wells MW-02, MW-05, MW-06A, MW-06S, MW-07, MW-13, and MW-14. DNAPL thicknesses are summarized in the table below.

Monitoring Well ID	Apparent DNAPL Thickness (feet) *			
	February 2002	May 2002	September 2002	November 2002
MW-02	Trace	Trace	Trace	Trace
MW-05	Trace	Trace	Trace	Trace
MW-06A	ND	ND ¹	ND	ND
MW-06S	3.66 *	3.63 ¹ *	3.76 *	4.06 *
MW-07	2.16 *	2.19 *	2.11 *	2.11 *
MW-13	ND	ND	ND	ND
MW-14	ND	ND	ND	ND
MW-16D	ND	ND	ND	ND
MW-16R	ND	ND	ND	ND

Monitoring Well ID	Apparent DNAPL Thickness (feet) *			
	February 2002	May 2002	September 2002	November 2002
MW-17D	ND	ND	ND	ND
MW-19D	ND	ND	ND	ND
MW-26D	ND	Trace	Trace	Trace
MW-27D	ND	ND	ND	ND
MW-28D	ND	ND	ND	ND

Notes:

1. Wells monitored on a quarterly basis (approximately every three months) during 2002.
2. ND – DNAPL was checked for, but not detected.
3. Trace – DNAPL was detected, however, measurable thicknesses were not encountered.
4. * - DNAPL thicknesses calculated based on differences between the measured depth to DNAPL and monitoring well installation depth reported at the time of installation. The apparent DNAPL thickness obtained based on the difference between measured depth to DNAPL and the reported depth of well installation may overestimate the NAPL thickness, since the material at the bottom of the wells may consist of a mixture of sediment and DNAPL.
5. 1 – Per discussions with the NYSDEC, DNAPL measurements for MW-6S and MW-6A were collected on July 1, 2002, due to the presence of standing water over the wells at the time of monitoring.

Significant amounts of DNAPL were not able to be recovered using either manual bailing techniques or a peristaltic pump. Due to the density of the DNAPL, the oil-water interface probe could not be used to determine the thickness of DNAPL within the monitoring wells. The apparent DNAPL thicknesses (presented in the table above) were determined based on the difference between the measured depth to DNAPL and the reported depth of installation for that monitoring well. Please note that the apparent DNAPL thickness may overestimate the NAPL thickness since the material at the bottom of the wells may consist of a mixture of sediment and DNAPL.

Summary

A summary of the findings of the November 2002 annual groundwater monitoring and quarterly NAPL monitoring and recovery activities is presented below.

- PCBs were not detected at concentrations exceeding the 0.09 ppb NYSDEC Class GA groundwater standard presented in TOGS 1.1.1 in the groundwater sample collected from offsite monitoring well MW-21R during the November 2002 monitoring event.
- Select BTEX and PAH compounds were detected in groundwater samples collected from onsite monitoring wells MW-14, MW-27S, MW-27D, and MW-28S at concentrations exceeding the NYSDEC Class GA groundwater standards and guidance values presented in TOGS 1.1.1. BTEX was also detected in the groundwater sample collected from onsite monitoring well MW-28D at concentrations exceeding the NYSDEC Class GA groundwater standards and guidance values.
- BTEX and PAH compounds were detected in groundwater samples collected from offsite monitoring wells MW-16R and MW-18S at concentrations exceeding the NYSDEC Class GA groundwater standards and guidance values presented in TOGS 1.1.1. BTEX compounds were also detected in groundwater samples collected from offsite monitoring wells MW-17D and MW-23S at

concentrations exceeding the NYSDEC Class GA groundwater standards and guidance values presented in TOGS 1.1.1.

- Measurable amounts of LNAPL were detected in monitoring wells MW-04, MW-08, and MW-10 and trace amounts of LNAPL were encountered in monitoring wells MW-13 and MW-26S during the quarterly NAPL monitoring and recovery events. Based on a comparison of these findings to the locations and amounts of LNAPL encountered during previous monitoring events, it does not appear that LNAPL has migrated further downgradient from the site. LNAPL encountered during the November 2002 monitoring activities was recovered to the extent possible and placed in a temporary storage container prior to offsite disposal in accordance with applicable regulations. A total of approximately 0.158 gallons of LNAPL was recovered from onsite monitoring wells during the 2002 quarterly monitoring events and containerized for future offsite treatment/disposal.
- Measurable amounts of DNAPL were detected in monitoring wells MW-06S and MW-07 and trace amounts of DNAPL were detected in monitoring wells MW-02, MW-05, and MW-26D during the quarterly NAPL monitoring and recovery events conducted between February 2002 and November 2002. The monitoring well locations where DNAPL was detected and measurable thickness of DNAPL at those well locations remained fairly consistent during the monitoring events conducted between February 2002 and November 2002. Due to the density and viscosity of DNAPL, significant amounts of DNAPL were not recovered using a manual bailer equipped with a free product sampler or using a peristaltic pump. Based on a comparison to the locations and amounts of DNAPL encountered during previous monitoring events, it does not appear that DNAPL has migrated further downgradient from the site.

Future Groundwater Monitoring Events

Niagara Mohawk has reviewed the analytical results obtained for previous groundwater monitoring events conducted during June 1997, July 1998, July 1999, November 2000, October 2001, and November 2002 to evaluate modifications to the schedule and scope of future groundwater monitoring activities at the site. A summary of the comparison is presented below followed by recommendations for future groundwater monitoring events.

- BTEX compounds have been identified as the primary VOCs in groundwater at the site at concentrations greater than NYSDEC Class GA groundwater standards and guidance values presented in TOGS 1.1.1. Additional VOCs (including acetone, methyl tert-butyl ether [MTBE], and styrene) have not consistently been detected at concentrations exceeding the Class GA groundwater standards and guidance values and are not primary constituents of concern associated with former MGP operations. Analytical results for groundwater samples collected from onsite and offsite monitoring wells during these previous monitoring events are summarized in Tables 10 and 11, respectively.
- PAHs [including acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluorene, naphthalene, and phenanthrene] have been consistently detected at concentrations exceeding the NYSDEC Class GA groundwater standards and guidance values in groundwater samples collected from onsite and offsite monitoring wells. Additional SVOCs that have been detected at concentrations greater than the NYSDEC Class GA groundwater standards or guidance values include: 2,4-dimethylphenol, 4-methylphenol, and phenol. Analytical results for groundwater samples collected from onsite and offsite monitoring wells during these previous monitoring events are summarized in Tables 10 and 11, respectively.

- Inorganic constituents that have been consistently detected at concentrations exceeding the NYSDEC groundwater standards/guidance values include: antimony, arsenic, barium, cyanide, iron, magnesium, manganese, sodium, and thallium. In addition, cadmium, lead, mercury, and selenium have been detected sporadically at concentrations exceeding the NYSDEC groundwater standards/guidance values during previous monitoring events. Analytical results for groundwater samples collected from onsite and offsite monitoring wells during these previous monitoring events are summarized in Tables 10 and 11, respectively.

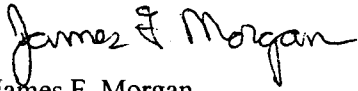
The results of the groundwater monitoring activities that have been conducted at the site since 1997 indicate that several of the groundwater wells that are currently sampled as part of the annual groundwater monitoring event are either located upgradient of any previously observed impacts or are located interior (i.e., upgradient) to the leading edge of the groundwater plume. Based on a review of the monitoring results, Niagara Mohawk proposes to modify the frequency and scope of future monitoring events as follows:

- *Focus on the primary chemical constituents of concern* - Niagara Mohawk proposes to reduce the list of analytical parameters to focus on the primary constituents of concern (COCs) at the site. As indicated above, BTEX compounds and PAHs are the primary COCs associated with the former MGP operations at the property. Select metals have been detected at concentrations that may be elevated with respect to background. Therefore, Niagara Mohawk proposes to reduce the list of analytes to be analyzed for the groundwater monitoring samples to BTEX compounds, PAHs, and the eight Resource Conservation and Recovery Act (RCRA) metals (including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) plus cyanide. Niagara Mohawk will also continue to collect groundwater samples from monitoring well MW-21R for laboratory analysis for PCBs.
- *Target monitoring wells within and downgradient of the MGP-impacted area* - Niagara Mohawk proposes to reduce the number of sampling and NAPL monitoring and recovery points to reduce costs and minimize the generation of non-essential data. The proposed wells to be retained as part of the annual sampling and quarterly NAPL monitoring and recovery activities are listed in Table 12 and shown on Figure 4. Niagara Mohawk maintains that groundwater samples will not be collected from monitoring wells where NAPL is detected since the presence of NAPL could lend to analytical results that are not indicative of the groundwater quality. However, if NAPL is not detected at a particular monitoring well, a groundwater sample will be collected as part of the annual groundwater sampling event.
- *Reduce monitoring frequency* - Niagara Mohawk proposes to conduct groundwater sampling once every 5 quarters, starting with a monitoring event in spring 2004 in an effort to rotate groundwater sampling seasons. Niagara Mohawk intends to conduct the spring 2004 monitoring event concurrently with the baseline sampling described in the *Pilot Scale Treatability Testing Work Plan* (BBL, January 2004). Niagara Mohawk proposes to continue monitoring and passive recovery of NAPL (to the extent possible) on a quarterly basis as described in Niagara Mohawk's April 10, 2000 letter to the NYSDEC.

Niagara Mohawk will continue to prepare annual letter reports summarizing the groundwater monitoring and quarterly NAPL monitoring and recovery activities.

Please do not hesitate to contact me at (315) 428-3101 if you have any questions or require additional information.

Sincerely,



James F. Morgan
Environmental Analyst

MAM/ams
Attachments

cc: William J. Holzhauer, Esq., Niagara Mohawk, a National Grid Company
Mr. Charles F. Willard, P.G., Niagara Mohawk, a National Grid Company
Richard R. Capozza, Esq., Hiscock & Barclay
Mr. Michael C. Jones, Blasland, Bouck, & Lee, Inc.
Mr. Charles E. Guest, P.E., Blasland, Bouck, & Lee, Inc.

Tables

Table 1

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Elevations (ft)

Well I.D.	Top of Casing Elevation	Groundwater Elevations																		
		09/27/96	06/2/97	7/30/98	8/31/98	10/5/98	10/30/98	12/8/98	1/6/99	2/3/99	3/2/99	3/30/99	5/6/99	6/2/99	7/13/99	11/6/00	11/6/00	2/21/01	10/24/01	11/2002
MW-01	22.93	14.62	14.61	14.65	NM	NM	NM	NM	NM	14.54	NM	NM	NM	NM	14.42	8.52	14.41	NM	14.00	14.09
MW-02	26.51	18.41	18.55	18.53	18.31	18.04	18.23	17.99	18.04	18.65	18.72	18.87	18.52	18.48	18.51	7.9	18.61	NA	18.02	17.98
MW-03	21.77	15.06	NM	14.94	NM	NM	NM	NM	NM	--	NM	NM	NM	NM	15.32	7.07	14.7	NM	14.28	15.08
MW-04	19.52	13.93	12.85	13.92	13.07	13.42	13.96	13.75	13.54	14.68	14.67	14.33	14.41	10.66	14.66	3.77	15.75	3.93	15.31	15.63
MW-05	20.25	15.68	15.93	15.69	15.53	15.08	15.14	14.87	14.65	14.96	15.42	15.83	15.67	15.70	15.62	4.87	15.38	4.88	14.95	15.36
MW-06A	15.99	NI	6.89	6.66	6.31	6.04	6.43	6.18	5.99	--	--	7.45	6.50	6.50	6.64	9.77	6.22	9.43	NM	5.95
MW-06S	16.10	NI	13.94	13.40	14.30	13.80	14.12	NM	13.58	--	--	14.78	14.31	14.11	14.39	2.31	13.79	1.65	13.9 *	15.20
MW-07	17.84	15.03	15.19	14.80	14.46	14.18	14.71	14.18	14.18	15.44	15.38	15.51	15.25	14.80	15.13	3.35	14.49	2.97	14.14	14.69
MW-08	19.22	10.59	11.72	10.02	13.02	9.37	11.38	9.63	10.55	14.60	14.18	13.98	13.42	10.98	11.91	8.95	10.27	7.6	10.45	14.14
MW-09	21.24	9.09	9.02	9.03	NM	NM	NM	NM	NM	9.61	NM	NM	NM	NM	9.06	12.51	8.73	NM	8.66	8.88
MW-10	17.45	6.40	6.58	6.15	5.38	5.05	6.30	5.67	4.98	6.89	6.50	7.88	5.85	6.31	7.44	11.89	5.56	11.64	5.25	6.22
MW-11	20.97	5.24	5.49	5.35	NM	NM	NM	NM	NM	--	NM	NM	NM	NM	4.89	16.67	4.3	NM	3.82	5.07
MW-12	20.27	6.68	6.81	6.62	NM	NM	NM	NM	NM	6.61	NM	NM	NM	NM	6.24	14.67	5.6	NM	5.19	5.83
MW-13	21.98	16.30	17.23	16.72	16.23	15.93	16.45	16.01	15.63	16.97	16.08	17.48	16.70	16.68	17.06	5.57	16.41	5.255	15.90	16.72
MW-14	17.63	6.59	6.70	6.48	NM	NM	NM	NM	NM	6.72	NM	NM	NM	NM	6.50	11.55	6.08	11.27	5.85	6.09
MW-15S	16.66	NI	10.94	10.76	NM	9.93	NM	10.86	NM	11.76	NM	NM	10.59	NM	11.45	6.07	10.59	5.46	9.96	11.09
MW-16D	15.81	NI	6.41	6.21	NM	5.63	NM	5.76	NM	6.56	--	NM	6.06	NM	6.26	10.1	5.71	9.72	5.50	5.96
MW-16R	16.15	NI	7.87	3.75	NM	NM	NM	NM	NM	7.53	NM	NM	7.05	NM	7.27	9.45	6.7	9.2	6.34	6.71
MW-17D	16.76	NI	5.20	5.04	4.75	4.54	4.89	4.72	4.55	5.49	5.35	5.92	4.90	4.91	5.08	11.99	4.77	11.61	4.58	4.98
MW-17S	16.42	NI	5.28	5.09	NM	NM	NM	4.73	NM	5.49	NM	NM	NM	NM	5.06	11.69	4.73	11.31	4.55	4.92
MW-18S	16.54	NI	5.57	5.42	5.07	4.85	5.20	5.00	4.90	5.75	5.93	7.04	5.39	5.32	5.39	11.48	5.06	10.59	4.83	5.30
MW-19D	17.00	NI	8.90	8.69	NM	NM	NM	NM	NM	9.27	NM	NM	NM	NM	8.85	8.55	8.45	NM	8.05	8.98
MW-20D	31.32	NI	24.18	24.17	NM	NM	NM	NM	NM	24.22	NM	NM	NM	NM	24.10	7.02	24.3	NM	23.88	23.97
MW-21D	15.67	NI	2.87	2.49	NM	NM	NM	NM	NM	3.13	3.12	NM	NM	NM	1.94	13.84	1.83	NM	1.42	1.97
MW-21R	15.68	NI	2.66	-9.45	NM	NM	NM	NM	NM	3.12	3.06	NM	NM	NM	2.48	13.79	1.89	13.34	1.47	2.05
MW-21S(R)	15.40	NI	3.14	2.64	NM	NM	NM	1.35	NM	3.78	3.85	NM	NM	NM	2.02	Destroyed	NM	NM	1.52	2.01
MW-22D	15.45	NI	3.10	2.65	NM	NM	NM	NM	NM	--	2.54	NM	NM	NM	2.04	13.45	2.0	NM	1.52	2.14
MW-22R	15.48	NI	3.33	3.07	NM	NM	NM	NM	NM	--	2.40	NM	NM	NM	2.46	13.26	2.22	12.84	1.97	2.34
MW-22S	15.83	NI	5.31	3.30	NM	NM	NM	2.12	NM	--	1.69	NM	NM	NM	3.65	13.44	2.39	NM	1.73	2.50
MW-23S	15.28	NI	NI	5.11	4.79	4.53	4.87	4.70	4.52	5.40	5.34	5.78	4.96	4.84	4.87	10.58	4.7	10.19	4.52	4.84
MW-24S	13.17	NI	NI	4.41	4.10	3.82	4.12	3.85	3.73	4.82	4.64	5.32	4.27	4.13	4.21	9.17	4.0	NM	3.80	4.18
MW-25S	11.30	NI	NI	4.81	4.28	3.96	4.28	4.06	3.83	4.85	4.85	5.46	4.47	4.30	4.51	7.11	4.19	6.85	3.93	4.48
MW-26D	22.27	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	5.61	16.66	5.06	16.04	16.38
MW-26S	22.14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	5.80	16.34	3.57	16.19	16.92
MW-27D	20.62	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.41	11.21	9.18	10.60	11.37
MW-27S	20.69	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	6.80	13.89	6.54	13.25	14.29
MW-28D	19.2	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.10	10.1	8.89	9.69	9.96
MW-28S	19.18	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3.70	15.48	3.74	15.13	15.58
PZ-01D	17.99	NI	10.65	10.32	NM	NM	NM	NM	NM	10.51	NM	NM	10.01	9.94	10.28	8.33	9.66	NM	9.06	13.28
PZ-01S	17.73	NI	13.83	13.68	NM	NM	NM	NM	NM	14.01	NM	NM	13.22	13.49	14.06	4.88	12.85	NM	11.85	9.15
PZ-02	17.83	NI	5.71	5.52	NM	NM	NM	NM	NM	5.36	NM	NM	NM	NM	NM	13.32	4.51	NM	4.13	4.84

Notes:

1. NM = Not measured.
2. NI = Not installed at the time of the monitoring event.
3. All elevations are in feet above mean sea level (AMSL) referenced to the National Geodetic Vertical Datum (NGVD) 1929.
4. Water levels for MW-16R and MW-21R measured on 7/30/98 appear to be affected by air pressure buildup in well.
5. Water levels shown in this table are not density-compensated to account for the presence of non-aqueous phase liquid (NAPL).
6. -- = Monitoring wells not gauged due to coverage of wells by snowbanks or water.
7. Monitoring well MW-06, which was installed during PSA activities (Foster Wheeler, 1995), was apparently paved over and has not been located.
8. Monitoring well MW-21S was decommissioned in December 2000 and replaced by MW-21S(R) due to irreparable damage.
9. * - Groundwater elevation for monitoring well MW-6S was measured on October 22, 2001.

Table 2

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Field Parameters

Sample ID	MW-1	MW-3	MW-6A	MW-9	MW-11	MW-12	MW-14	MW-15S	MW-16D	MW-16R	MW-17S
Sample Date	11/13/2002	11/11/2002	11/20/2002	11/12/2002	11/14/2002	11/14/2002	11/18/2002	11/13/2002	11/14/2002	11/14/2002	11/13/2002
Temperature (°C)	12.55	16.33	15.31	15.69	13.84	16.58	15.14	12.86	14.13	14.4	13.66
pH (S.U.)	6.7	6.2	6.75	6.49	7.1	7.24	6.93	7.64	7.22	7.64	6.74
Conductivity (mS/cm)	0.597	4.24	2.41	0.701	0.001	2.6	0.042	0.473	2.17	0.067	1.92
DO (mg/L)	1.63	0.51	0.31	0.5	2.55	2.34	0.2	3.06	2.21	4.86	0.92
Turbidity (NTU)	70	2	32.2	9	121	4.5	2	NA	10.6	30	14.0
ORP (mV)	NA	NA	137	NA	NA	NA	120	NA	NA	NA	NA

Sample ID	MW-17D	MW-18S	MW-19D	MW-20D	MW-21SR	MW-21R	MW-21D	MW-22S	MW-22D	MW-22R	MW-23S
Sample Date	11/13/2002	11/13/2002	11/14/2002	11/11/2002	11/19/2002	11/20/2002	11/19/2002	11/19/2002	11/19/2002	11/20/2002	11/15/2002
Temperature (°C)	13.83	13.08	14.87	13.69	11.99	6.83	11.54	14.32	12.19	11.83	16.44
pH (S.U.)	7.42	6.67	6.3	6.6	6.28	8.11	6.82	6.54	6.48	11.74	6.71
Conductivity (mS/cm)	2.79	0.236	0.002	0.69	0.94	0.747	3	1.125	0.93	0	0.439
DO (mg/L)	3.39	0.6	0.52	0.41	0.42	6.89	0.15	0.35	0.15	1.96	0.32
Turbidity (NTU)	47.0	NA	3.0	2.0	1.0	3.0	5.0	0.6	4.0	8.2	27.0
ORP (mV)	NA	NA	NA	NA	320	340	128	294	198	269	143

Sample ID	MW-24S	MW-25S	MW-26S	MW-27D	MW-27S	MW-28D	MW-28S	PZ-01S	PZ-01D	PZ-02
Sample Date	11/18/2002	11/19/2002	11/18/2002	11/18/2002	11/18/2002	11/21/2002	11/19/2002	11/15/2002	11/15/2002	11/14/2002
Temperature (°C)	16.33	12.72	13.67	16.86	15.77	16.1	15.18	17.07	16.77	16.41
pH (S.U.)	6.93	7.73	7.49	6.71	6.51	7.13	6.94	7.12	6.97	6.74
Conductivity (mS/cm)	2.52	1.81	0.184	1.64	1.84	3.06	0.356	1.5	0.641	0.867
DO (mg/L)	0.29	0.25	4.93	0.26	0.20	1.71	0.21	1.83	0.30	0.25
Turbidity (NTU)	19.7	3.3	3.9	2.0	1.0	5.0	2.0	6.0	3.0	0.0
ORP (mV)	159	2.78	309	115	103	-11	77	197	155	300

Table 2

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Field Parameters

Notes:

1. Field parameters measured by Blasland, Bouck & Lee, Inc.
2. Field parameters measured using a YSI flow through cell equipped with a 6820 Sonde and 610-D Monitor, and a HACH Turbidimeter.
3. Indicated field parameters were collected at the beginning of groundwater sampling.
4. DO = Dissolved Oxygen.
5. ORP = Oxidation Reduction Potential.
6. °C = degrees Celcius
7. S.U. = Standard Units
8. mS/cm = millisiemens per centimeter
9. mg/L = milligrams per liter
10. NTU = Nephelometric turbidity units
11. mV = millivolts

Table 3

**Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York**

Groundwater Analytical Results for PCBs (ppb)

	NYSDEC Class GA Standard	Sample ID	
		MW-21R 11/20/2002	DUP-3 (MW-21R) 11/20/2002
Aroclor-1016	0.09 b	< 0.065	< 0.062
Aroclor-1221	0.09 b	< 0.065	< 0.062
Aroclor-1232	0.09 b	< 0.065	< 0.062
Aroclor-1242	0.09 b	< 0.065	< 0.062
Aroclor-1248	0.09 b	< 0.065	< 0.062
Aroclor-1254	0.09 b	0.056 J	0.061 J
Aroclor-1260	0.09 b	< 0.065	< 0.062

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. (BBL).
2. Laboratory analysis was conducted by Severn Trent Laboratories, Inc. located in Amherst, New York.
3. NYSDEC Class GA Standards from New York State Department of Environmental Conservation (NYSDEC) document entitled, "Division of Water, Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1), reissue June 1998 and addended April 2000.
4. Samples were analyzed for PCBs using USEPA SW-846 Method 8082.
5. Concentrations reported in micrograms per liter (mg/l) or parts per billion (ppb).
6. < = Indicates that the constituent was not detected; the associated value is the sample quantitation limit.
7. J = Estimated value. Value is below practical quantitation limit.
8. Sample designations indicate the following:
MW = Monitoring well.
DUP = Duplicate sample.
9. b = Value listed applies to the sum of these substances.

Table 4

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected VOCs (ppb)

	NYSDEC Groundwater Standards & Guidance Values (ppb)	Sample ID										
		MW-01 11/13/2002	MW-03 11/11/2002	MW-06A 11/20/2002	MW-09 11/12/2002	MW-11 11/14/2002	MW-12 11/14/2002	MW-14 11/18/2002	MW-16D 11/14/2002	MW-16R 11/14/2002	MW-17D 11/13/2002	MW-17S 11/13/2002
Acetone	50 G	< 10	< 10	15 J	< 10	2 J	< 10	< 10 J	< 10	< 10	55 J	< 10
Benzene	1	< 10	< 10	< 10	< 10	< 10	< 10	52 J	< 10	< 10 J	150 J	31 J
Carbon disulfide	60 G	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10
Chloromethane	5	< 10	< 10	2 J	< 10	< 10	< 10	< 10 J	< 10	< 10	< 10	< 10
Ethylbenzene	5	< 10	< 10	< 10	< 10	< 10	< 10	5 J	< 10	3 J	12 J	< 10
Isopropylbenzene	5	< 10	< 10	< 10	< 10	< 10	< 10	7 J	< 10	< 10	17 J	< 10
Methyl tert-butyl ether	10 G	< 10	< 10	12 J	< 10	1 J	< 10	18 J	12 J	< 10	16 J	< 10
Styrene	5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	5	< 10	< 10	< 10	< 10	< 10	< 10	2 J	< 10	1 J	< 10	< 10
Xylenes, Total	5 d	< 10	< 10	< 10	< 10	< 10	< 10	6 J	< 10	1 J	11 J	< 10

	NYSDEC Groundwater Standards & Guidance Values (ppb)	Sample ID										
		DUP-1 (MW-17S) 11/13/2002	MW-18S 11/13/2002	MW-19D 11/14/2002	MW-20D 11/11/2002	MW-21D 11/19/2002	MW-21R 11/20/2002	MW-21SR 11/19/2002	MW-22D 11/19/2002	MW-22R 11/20/2002	MW-22S 11/19/2002	MW-23S 11/15/2002
Acetone	50 G	< 10	40 U	< 10	< 10	< 10	< 10 J	< 10	< 10 J	< 10 J	< 10	< 10 J
Benzene	1	8 J	360 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	9 J
Carbon disulfide	60 G	< 10	40 U	< 10	< 10	< 10	< 10 J	< 10	< 10 J	< 10 J	< 10	< 10 J
Chloromethane	5	< 10	40 U	< 10	< 10	< 10	2 J	< 10	< 10 J	< 10	< 10	< 10 J
Ethylbenzene	5	< 10	490 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	5	< 10	13 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl tert-butyl ether	10 G	< 10	40 U	< 10	< 10	1 J	< 10	< 10	< 10	< 10	< 10	< 10
Styrene	5	< 10	40 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	5	< 10	6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Xylenes, Total	5 d	< 10	70 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Table 4

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected VOCs (ppb)

	NYSDEC Groundwater Standards & Guidance Values (ppb)	Sample ID										
		MW-24S 11/18/2002	MW-25S 11/19/2002	MW-26S 11/18/2002	MW-27D 11/18/2002	MW-27S 11/18/2002	MW-28D 11/21/2002	MW-28S 11/19/2002	DUP-2 (MW-28S) 11/19/2002	PZ-01D 11/15/2002	PZ-01S 11/15/2002	PZ-02 11/14/2002
Acetone	50 G	< 10 J	< 10	< 10 J	< 10 J	< 10 J	< 10 J	< 100 U	< 10 J	< 10 J	< 10 J	< 10
Benzene	1	< 10	< 10	< 10	400 DJ	350 DJ	43 J	200 J	210 DJ	< 10	< 10	< 10
Carbon disulfide	60 G	< 10 J	< 10	< 10 J	< 10 J	< 10 J	2 J	< 100 U	4 J	< 10 J	< 10 J	< 10
Chloromethane	5	< 10 J	1 J	< 10 J	< 10 J	< 10 J	3 J	< 100 U	< 10 J	< 10 J	< 10 J	< 10
Ethylbenzene	5	< 10	< 10	< 10	300 DJ	320 DJ	78 J	1,100 J	1,100 DJ	< 10	< 10	< 10
Isopropylbenzene	5	< 10	< 10	< 10	44	12 J	2 J	17 J	22 J	< 10	< 10	< 10
Methyl tert-butyl ether	10 G	4 J	< 10	< 10	< 10	< 10	13 J	< 100 U	< 10	< 10	< 10	< 10
Styrene	5	< 10	< 10	< 10	< 10	< 10	5 J	130 J	200 J	< 10	< 10	< 10
Toluene	5	< 10	< 10	< 10	5 J	6 J	16 J	310 J	320 DJ	< 10	< 10	< 10
Xylenes, Total	5 d	< 10	< 10	< 10	110 J	82 J	33 J	970 J	1,000 DJ	< 10	< 10	< 10

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. (BBL).
2. Laboratory analysis was conducted by Severn Trent Laboratories, Inc. located in Amherst, New York.
3. NYSDEC Class GA Standards from New York State Department of Environmental Conservation (NYSDEC) document entitled, "Division of Water, Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1), reissued June 1998 and addended April 2000.
4. Samples were analyzed for VOCs using USEPA SW-846 Method 8260.
5. Concentrations reported in micrograms per liter (mg/l) or parts per billion (ppb).
6. < = Indicates that the constituent was not detected; the associated value is the sample quantitation limit.
7. J = Indicates an estimated concentration.
8. D = Indicates that the detected concentration is based on a diluted sample analysis.
9. Bold and shaded values indicate that the constituent was detected at a concentration greater than the NYSDEC Class GA Standards or Guidance Values.
10. d = Value listed applies to each isomer individually.
11. G = Guidance value.

Table 5

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected SVOCs (ppb)

Compound	NYSDEC Groundwater Standards & Guidance Values (ppb)	Sample ID										
		MW-01 11/13/02	MW-03 11/11/02	MW-06A 11/20/02	MW-09 11/12/02	MW-11 11/14/02	MW-12 11/14/02	MW-14 11/18/02	MW-15S 11/13/02	MW-16D 11/14/02	MW-16R 11/14/02	MW-17D 11/13/02
2,4-Dimethylphenol	1 a	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 10	< 10	< 10
2-Methylnaphthalene	NA	< 10	< 10	< 10	< 10	< 10	< 10	12 J	< 10	< 10	140 DJ	83 D
2-Methylphenol	1 a	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 10	< 10	< 10
4-Methylphenol	1 a	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 10	2 J	< 10
Acenaphthene	20 G	< 10	< 10	0.6 J	< 10	< 10	< 10	57 J	< 10	< 10	53 J	38 J
Acenaphthylene	NA	< 10	< 10	< 10	< 10	< 10	< 10	1 J	< 10	< 10	2 J	< 10
Acetophenone	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 10	< 10	< 10
Anthracene	50 G	< 10	< 10	< 10	< 10	< 10	< 10	2 J	< 10	< 10	1 J	< 10
Benzo(a)anthracene	0.002 G	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 10	< 10	< 10
Benzo(a)pyrene	ND	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	0.002 G	< 10	< 10	< 10	< 10	< 10	< 10	< 9 J	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	0.002 G	< 10	< 10	< 10 J	< 10	< 10	< 10	< 9	< 10	< 10	< 10	< 10
Biphenyl	5	< 10	< 10	< 10	< 10	< 10	< 10	0.6 J	< 10	< 10	7 J	< 10
bis(2-Ethylhexyl)phthalate	5	< 10	< 10	< 10	< 10	< 10	< 10	0.4 J	0.4 J	< 10	< 10	0.4 J
Butyl benzyl phthalate	50 G	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 10	< 10	< 10
Carbazole	NA	< 10	< 10	< 10	< 10	< 10	< 10	2 J	< 10	< 10	4 J	2 J
Chrysene	0.002 G	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 10	< 10	< 10
Di-n-butyl phthalate	50	< 10	< 10	< 10	< 10	< 10	< 10	0.6 J	< 10	< 10	< 10	0.8 J
Dibenzofuran	NA	< 10	< 10	< 10	< 10	< 10	< 10	0.5 J	< 10	< 10	2 J	0.7 J
Fluoranthene	50 G	< 10	< 10	< 10	< 10	< 10	< 10	2 J	< 10	< 10	0.3 J	< 10
Fluorene	50 G	< 10	< 10	< 10	< 10	< 10	< 10	13 J	< 10	< 10	16 J	6 J
Naphthalene	10 G	< 10	< 10	0.8 J	< 10	< 10	0.3 J	34 J	< 10	< 10	950 D	2 J
Phenanthrene	50 G	< 10	< 10	< 10	< 10	< 10	< 10	12 J	< 10	< 10	9 J	1 J
Phenol	1 a	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 10	< 10	1 J
Pyrene	50 G	< 10	< 10	< 10	< 10	< 10	< 10	2 J	< 10	< 10	0.4 J	< 10

Table 5

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected SVOCs (ppb)

Compound	NYSDEC Groundwater Standards & Guidance Values (ppb)	Sample ID										
		MW-17S 11/13/02	DUP-1(MW-17S) 11/13/02	MW-18S 11/19/02	MW-19D 11/14/02	MW-20D 11/11/02	MW-21D 11/19/02	MW-21R 11/20/02	MW-21SR 11/19/02	MW-22D 11/19/02	MW-22R 11/20/02	MW-22S 11/19/02
2,4-Dimethylphenol	1 a	< 10	< 10	1 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
2-Methylnaphthalene	NA	20 J	30 J	28 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
2-Methylphenol	1 a	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
4-Methylphenol	1 a	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Acenaphthene	20 G	11 J	17	41 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Acenaphthylene	NA	< 10	< 10	0.5 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Acetophenone	NA	< 10	< 10	3 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Anthracene	50 G	< 10	< 10	0.5 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Benzo(a)anthracene	0.002 G	< 10	< 10	< 10	< 10	0.5 J	< 9	< 10	< 9	< 9	< 10	< 10
Benzo(a)pyrene	ND	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Benzo(b)fluoranthene	0.002 G	< 10	< 10	< 10 J	< 10	< 10	< 9 J	< 10	< 9 J	< 9 J	< 10	< 10 J
Benzo(k)fluoranthene	0.002 G	< 10	< 10	< 10	< 10	0.2 J	< 9	< 10 J	< 9	< 9	< 10 J	< 10
Biphenyl	5	< 10	< 10	12 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
bis(2-Ethylhexyl)phthalate	5	0.5 J	0.3 J	< 10	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Butyl benzyl phthalate	50 G	< 10	< 10	< 10	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Carbazole	NA	0.4 J	0.6 J	2 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Chrysene	0.002 G	< 10	< 10	< 10	< 10	0.4 J	< 9	< 10	< 9	< 9	< 10	< 10
Di-n-butyl phthalate	50	< 10	< 10	< 10	0.3 J	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Dibenzofuran	NA	< 10	< 10	0.5 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Fluoranthene	50 G	< 10	< 10	< 10	< 10	0.6 J	< 9	< 10	< 9	< 9	< 10	< 10
Fluorene	50 G	0.4 J	0.7 J	6 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Naphthalene	10 G	1 J	1 J	850 DJ	1 J	< 10	3 J	< 10	0.9 J	2 J	< 10	2 J
Phenanthrene	50 G	< 10	< 10	6 J	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Phenol	1 a	2 J	3 J	< 10	< 10	< 10	< 9	< 10	< 9	< 9	< 10	< 10
Pyrene	50 G	< 10	< 10	< 10	< 10	0.6 J	< 9	< 10	< 9	< 9	< 10	< 10

Table 5

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected SVOCs (ppb)

Compound	NYSDEC Groundwater Standards & Guidance Values (ppb)	Sample ID										
		MW-23S 11/15/02	MW-24S 11/18/02	MW-25S 11/19/02	MW-26S 11/18/02	MW-27D 11/18/02	MW-27S 11/18/02	MW-28D 11/21/02	MW-28S 11/19/02	DUP-2 (MW-28S) 11/19/02	PZ-01D 11/15/02	PZ-01S 11/15/02
2,4-Dimethylphenol	1 a	< 10	< 9	< 9	< 9	< 9	0.8 J	< 10	< 10	6 J	< 9	< 10
2-Methylnaphthalene	NA	3 J	< 9	< 9	< 9	230 DJ	270 DJ	0.7 J	200 DJ	210 DJ	< 9	< 10
2-Methylphenol	1 a	< 10	< 9	< 9	< 9	< 9	< 9	0.4 J	< 10	< 10	< 9	< 10
4-Methylphenol	1 a	< 10	< 9	< 9	< 9	< 9	< 9	< 10	< 10	< 10	< 9	< 10
Acenaphthene	20 G	15	< 9	< 9	< 9	320 D	210 DJ	4 J	70 J	67 J	< 9	2 J
Acenaphthylene	NA	< 10	< 9	< 9	< 9	7 J	8 J	5 J	150 DJ	160 DJ	< 9	< 10
Acetophenone	NA	< 10	< 9	< 9	< 9	< 9	< 9	1 J	2 J	< 10	< 9	< 10
Anthracene	50 G	< 10	< 9	< 9	< 9	17 J	17 J	< 10	9 J	8 J	< 9	< 10
Benzo(a)anthracene	0.002 G	< 10	< 9	< 9	< 9	0.7 J	0.8 J	< 10	0.3 J	0.3 J	< 9	< 10
Benzo(a)pyrene	ND	< 10	< 9	< 9	< 9	< 9	0.3 J	< 10	< 10	< 10	< 9	< 10
Benzo(b)fluoranthene	0.002 G	< 10	< 9 J	< 9 J	< 9 J	< 9 J	0.3 J	< 10	< 10 J	< 10 J	< 9	< 10
Benzo(k)fluoranthene	0.002 G	< 10	< 9	< 9	< 9	< 9	< 9	< 10 J	< 10	< 10	< 9	< 10
Biphenyl	5	< 10	< 9	< 9	< 9	14 J	28 J	0.6 J	54 J	< 10	< 9	< 10
bis(2-Ethylhexyl)phthalate	5	0.8 J	< 9	< 9	< 9	< 9	< 9	< 10	< 10	< 10	< 9	< 10
Butyl benzyl phthalate	50 G	0.3 J	< 9	< 9	< 9	< 9	< 9	< 10	< 10	< 10	< 9	< 10
Carbazole	NA	0.3 J	< 9	< 9	< 9	3 J	6 J	< 10	7 J	7 J	< 9	< 10
Chrysene	0.002 G	< 10	< 9	< 9	< 9	0.5 J	0.8 J	< 10	< 10	< 10	< 9	< 10
Di-n-butyl phthalate	50	0.3 J	0.3 J	< 9	< 9	< 9	< 9	< 10	< 10	< 10	< 9	0.6 J
Dibenzofuran	NA	< 10	< 9	< 9	< 9	9 J	6 J	< 10	5 J	5 J	< 9	< 10
Fluoranthene	50 G	< 10	< 9	< 9	< 9	11 J	9 J	< 10	5 J	5 J	< 9	< 10
Fluorene	50 G	0.6 J	< 9	< 9	< 9	60 J	62 J	0.9 J	47 J	45 J	< 9	< 10
Naphthalene	10 G	0.3 J	< 9	4 J	1 J	2,200 DJ	430 DJ	0.4 J	5,400 DJ	5,800 DJ	< 9	< 10
Phenanthrene	50 G	< 10	< 9	< 9	< 9	62 J	53 J	0.3 J	51 J	49 J	< 9	< 10
Phenol	1 a	1 J	< 9	< 9	< 9	2 J	1 J	2 J	4 J	3 J	< 9	< 10
Pyrene	50 G	< 10	< 9	< 9	< 9	12 J	11 J	< 10	4 J	4 J	< 9	< 10

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected SVOCs (ppb)

[illegible]

Table 5

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected SVOCs (ppb)

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. (BBL).
2. Laboratory analysis was conducted by Severn Trent Laboratories, Inc. located in Amherst, New York.
3. NYSDEC Class GA Standards from New York State Department of Environmental Conservation (NYSDEC) document entitled, "Division of Water, Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1), reissued June 1998 and addended April 2000.
4. Samples were analyzed for SVOCs using USEPA SW-846 Method 8270.
5. Concentrations reported in micrograms per liter (mg/l) or parts per billion (ppb).
6. < = Indicates that the constituent was not detected; the associated value is the laboratory limit.
7. J = Indicates an estimated concentration.
8. D = Indicates that the detected concentration is based on a diluted sample analysis.
9. NA = Indicates that a NYSDEC Class GA groundwater Standard or Guidance Value is not available for the indicated parameter.
10. DUP = Duplicate sample.
11. Bold and shaded values indicate that the constituent was detected at or above NYSDEC Class GA Standard or Guidance Value.
12. a = Value listed applies to the sum of these substances.
13. G = Guidance value.

Table 6

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected Inorganic Constituents (ppb)

	NYSDEC Groundwater Standards & Guidance Values (ppb)	Sample ID										
		MW-01	MW-03	MW-06A	MW-09	MW-11	MW-12	MW-14	MW-15S	MW-16D	MW-16R	MW-17D
		11/13/02	11/11/02	11/20/02	11/12/02	11/14/02	11/14/02	11/18/02	11/13/02	11/14/02	11/14/02	11/13/02
Aluminum	NA	108 U	33.7 U	1,270	32.5 U	60 U	142 U	32.5 U	32.5 U	98.2 B	441	328
Antimony	3	5.4 U	5.4 U	4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
Arsenic	25	4 U	4 U	16.7	4 U	25.5	4 U	28.5	4 U	7.7 B	4 U	4 U
Barium	1,000	119 B	338	514	92.1 B	204	80.3 B	1,300	194 B	738	1,360	4,310
Beryllium	3 G	0.2 U	0.2 U	0.8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	5	0.3 U	1.8 J	0.9 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.58 U	0.3 U
Calcium	NA	143,000 J	305,000 J	198,000	213,000 J	133,000 J	180,000 J	199,000	76,900 J	142,000 J	8,330 J	188,000 J
Chromium	50	1.3 B	2.4 U	2.5 B	1.1 B	1.3 U	1.9 U	1.5 B	0.96 B	1.4 B	1.1 B	1.7 B
Cobalt	NA	0.5 U	1.8 B	2.7 B	0.5 U	0.5 U	3.1 B	1.7 B	0.5 U	0.5 U	0.72 B	1.5 B
Copper	200	1.6 B	2.5 B	2.1 U	2.1 B	2.1 U	2.8 U	1.7 U	1.3 B	1.2 B	3.9 B	3.2 B
Cyanide, Total	200	20.2 J	10 U	418 J	10 U	10 U	11.1 J	200 J	12.7 J	11.4 J	10 U	185 J
Iron	300 h	2,650 J	20.6 U	45,500	594	31,100 J	131 U	6,710	3,700 J	17,500 J	788 J	7,590 J
Lead	25	2.3 U	9.4	5.6	2.3 U	2.3 U	2.3 U	3.3	2.3 U	2.3 U	2.8 B	2.3 U
Magnesium	35,000 G	36,700 J	102,000 J	34,700	63,600 J	27,200 J	40,200 J	40,700	8,230 J	20,300 J	915 BJ	43,800 J
Manganese	300 h	1,000 J	11,600 J	2,770 J	1,140 J	4,030 J	3,210 J	6,720 J	683 J	2,150 J	37.6 J	1,740 J
Mercury	0.7	0.065 U	0.065 U	0.035 U	0.065 U	0.065 U	0.065 U	0.035 U	0.065 U	0.065 U	0.065 U	0.065 U
Nickel	100	1.1 B	2.8 B	1.5 B	1 U	1 U	6.2 B	1 U	1 U	1 U	1 U	1.4 B
Potassium	NA	8,560 BJ	1,270 BJ	8,760 B	5,560 BJ	10,600 J	8,190 BJ	9,200 B	5,380 J	5,480 BJ	5,130 BJ	3,350 BJ
Selenium	10	4 U	4 U	5 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Silver	50	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.75 B	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Sodium	20,000	237,000 J	102,000 J	207,000	263,000 J	82,800 J	192,000 J	330,000	85,200 J	204,000 J	324,000 J	161,000 J
Thallium	0.5 G	3.9 U	3.9 U	7 U	6.5 U	3.9 U	7.1 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
Vanadium	NA	0.7 U	0.7 U	2 U	0.7 U	0.7 U	1.2 B	0.94 B	0.7 U	0.7 U	0.7 U	0.7 U
Zinc	2,000 G	6.2 B	7.8 B	22.9	13.1 B	4.1 B	4.9 B	4.1 U	4.2 B	4.1 U	31.2	5.4 B

Table 6

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected Inorganic Constituents (ppb)

	NYSDEC Groundwater Standards & Guidance Values (ppb)	Sample ID											
		MW-17S	DUP-1(MW-17S)	MW-18S	MW-19D	MW-20D	MW-21D	MW-21R	MW-21SR	MW-22D	MW-22R	MW-22S	MW-23S
		11/13/02	11/13/02	11/13/02	11/14/02	11/11/02	11/19/02	11/20/02	11/19/02	11/19/02	11/20/02	11/19/02	11/15/02
Aluminum	NA	32.5 U	32.5 U	32.5 U	32.5 U	32.5 U	32.5 U	53.4 B	32.5 U	54 B	174 B	32.5 U	251 U
Antimony	3	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	4 U	5.4 U	5.4 U	4 U	5.4 U	5.4 U
Arsenic	25	8.6 B	6 B	4 U	4 U	4 U	4 U	3 U	4 U	4 U	3 U	4 U	9 B
Barium	1,000	264	263	351	59.2 B	147 B	1,100	532	174 B	5,000	255	88.2 B	1,430
Beryllium	3 G	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.2 U	0.2 U	0.8 U	0.2 U	0.2 U
Cadmium	5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.9 U	0.3 U	0.3 U	1.2 B	0.35 B	0.3 U
Calcium	NA	174,000 J	180,000 J	109,000 J	127,000 J	229,000 J	240,000	1,680 B	157,000	191,000	39,000	211,000	110,000 J
Chromium	50	1.8 B	1.3 B	1.4 B	1.4 U	0.72 U	1.3 B	1 U	0.69 B	1.4 B	1 U	0.6 U	1.6 B
Cobalt	NA	1.2 B	1.8 B	0.5 U	4.9 B	2.7 B	1.2 U	1 U	0.83 U	0.5 U	1 U	0.5 U	1.9 U
Copper	200	1.9 B	4.6 B	3.4 B	6.8 B	1.4 B	0.7 B	1 U	2.2 B	1.2 B	5.9 B	3.6 B	5 U
Cyanide, Total	200	75.7 J	64.5 J	45.1 J	21.8 J	10 U	95.4 J	66.5 J	11.6 J	10 U	10 U	10 U	97.3 J
Iron	300 h	39,500 J	40,000 J	42,900 J	1,860 J	117 U	20,700	146	147	965	201	13.9 U	18,100 J
Lead	25	5	3.7	3	5.9	2.3 U	3	2 U	2.3 U	2.3 U	2 U	2.3 U	3.8
Magnesium	35,000 G	35,100 J	36,000 J	19,300 J	26,600 J	56,900 J	54,200	213 B	27,000	54,800	1,810 B	24,300	18,600 J
Manganese	300 h	5,600 J	5,650 J	5,770 J	8,700 J	745 J	4,830 J	13.1 B	2,070 J	3,260 J	11.5 B	18.2	4,020 J
Mercury	0.7	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.065 U
Nickel	100	1.3 B	1 U	1 U	1.2 B	4.3 B	1 U	1 U	1.4 U	1 U	1 U	2.5 U	3.3 U
Potassium	NA	2,850 BJ	7,850 BJ	3,950 BJ	16,400 BJ	3,990 BJ	7,730 B	3,070 B	4,630 B	3,930 B	13,600	9,120	7,010 J
Selenium	10	4.2 B	4 U	4 U	4 U	4 U	4 U	5 U	4 U	4 U	5 U	4 U	4 U
Silver	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.54 B	1 U	0.5 U	0.5 U	1 U	0.5 U	0.52 B
Sodium	20,000	141,000 J	305,000 J	88,900 J	117,000 J	410,000 J	248,000	231,000	40,300	36,900	46,100	9,680	129,000 J
Thallium	0.5 G	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	7 U	3.9 U	3.9 U	7 U	3.9 U	3.9 U
Vanadium	NA	0.96 B	0.7 U	0.7 U	0.7 U	0.7 U	0.73 U	1 U	0.7 U	0.79 B	1.9 U	0.7 U	1.7 U
Zinc	2,000 G	4.1 U	4.2 B	4.1 U	4.1 U	6.4 B	8 B	2.2 B	18.6 B	5.2 U	8.5 B	44.4	28.2

Table 6

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected Inorganic Constituents (ppb)

	NYSDEC Groundwater Standards & Guidance Values (ppb)	Sample ID										
		MW-24S	MW-25S	MW-26S	MW-27D	MW-27S	MW-28D	MW-28S	DUP-2(MW-28S)	PZ-01D	PZ-01S	PZ-02
		11/18/02	11/19/02	11/18/02	11/18/02	11/18/02	11/21/02	11/19/02	11/19/02	11/15/02	11/15/02	11/14/02
Aluminum	NA	276	128 B	136 B	32.5 U	32.5 U	96 B	127 B	121 B	51.2 U	32.5 U	32.5 U
Antimony	3	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	4 U	5.4 U	6.1 B	5.4 U	5.4 U	5.4 U
Arsenic	25	4.1 B	4 U	4 U	12.5	4 U	3 U	8.7 B	9.8 B	23	5 B	4 U
Barium	1,000	1,770	193 B	65 B	584	262	7,910	52.2 B	57.6 B	398	243	58.4 B
Beryllium	3 G	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.9 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Calcium	NA	209,000	62,300	52,600	181,000	156,000	189,000	390,000	415,000	100,000 J	158,000 J	124,000 J
Chromium	50	1.8 B	1.1 B	1.9 B	1.6 B	5.1 B	1 U	0.6 U	0.68 B	0.6 U	1 B	0.67 U
Cobalt	NA	0.98 B	0.5 U	0.5 U	0.5 U	1.1 B	2.9 B	2.1 B	2.3 B	0.5 U	0.68 U	0.5 U
Copper	200	1.8 B	2.4 B	14.9 B	1.2 U	1.6 U	1 U	0.62 U	2 B	0.68 U	0.83 U	1.9 U
Cyanide, Total	200	69.6 J	44.1 J	10 U	25.2 J	180 J	114 J	316 J	576 J	10.6 J	15 J	10 U
Iron	300 h	14,000	226	127	44,800	15,800	482	3,860	4,130	13,800 J	28,600 J	79.2 U
Lead	25	4.2	2.3 U	2.3 U	8.1	2.3 U	2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
Magnesium	35,000 G	43,100	7,160	8,490	36,700	17,000	35,400	3,400 B	3,670 B	10,900 J	20,600 J	15,800 J
Manganese	300 h	5,190 J	535 J	3.4 B	12,500 J	509 J	668 J	113 J	120 J	1,710 J	1,940 J	11.2 BJ
Mercury	0.7	0.035 U	0.042 B	0.035 U	0.035 U	0.035 U	0.035 U	0.053 B	0.035 U	0.065 U	0.065 U	0.065 U
Nickel	100	1 U	1 B	1 U	1 U	3.8 B	1 U	1.7 B	1.2 B	1 U	1.1 U	1 U
Potassium	NA	9,440 B	1,820 B	2,100 B	14,600 B	9,170 B	9,660 B	7,070 B	7,090 B	5,980 J	11,600 J	6,090 J
Selenium	10	4 U	4.6 B	5.2	4 U	4 U	5 U	4 U	4 U	4 U	4 U	4 U
Silver	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Sodium	20,000	254,000	298,000	124,000	245,000	184,000	330,000	106,000	115,000	97,800 J	94,700 J	36,300 J
Thallium	0.5 G	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	7 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
Vanadium	NA	1.5 B	1.5 U	0.93 B	0.7 U	1.7 B	1.3 U	6 B	6.5 B	0.7 U	0.78 U	2.7 B
Zinc	2,000 G	6 U	17.7 B	19.5 B	13.8 B	5.7 U	1.9 B	4.1 U	4.7 U	6.8 B	8.4 B	7.9 B

Table 6

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Groundwater Analytical Results for Detected Inorganic Constituents (ppb)

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. (BBL).
2. Laboratory analysis was conducted by Severn Trent Laboratories, Inc. located in Amherst, New York.
3. NYSDEC Class GA Standards from New York State Department of Environmental Conservation (NYSDEC) document entitled, "Division of Water, Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1), reissued June 1998 and addended April 2000.
4. Samples (except cyanide) were analyzed for inorganic constituents using USEPA SW-846 Method 6010/7000. Cyanide was analyzed using USEPA SW-846 Method 9010.
5. Concentrations reported in micrograms per liter (ug/l) or parts per billion (ppb).
6. U = Indicates that the constituent was not detected; the associated value is the sample quantitation limit.
7. J = Estimated value. Value is below practical quantitation limit.
8. B = Indicates that the constituent was detected at a value greater than or equal to the instrument detection limit, but less than the contract required detection limit.
9. DUP = Duplicate sample.
10. Bold and shaded values indicate that the constituent was detected at or above NYSDEC Class GA Standard or Guidance Value.
11. h = Iron and manganese criteria is for 300 ppb individually, or 500 ppb as a sum.
12. G = Guidance value.
13. NA = No GA standard or guidance value for ground water is available for these substances.

Table 7

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Comparison of Groundwater Analytical Results for Selected Onsite Monitoring Wells (ppb)

	NYSDEC GW Criteria	MW-14				MW-26S			MW-27S		
		Jun-97	Jul-99	Oct-01	Nov-02	Nov-00	Oct-01	Nov-02	Nov-00	Oct-01	Nov-02
BTEX Compounds											
Benzene	1	120	50	210 D	52 J	18 J	34	ND	1300 D	2400 D	350 DJ
Ethylbenzene	5	16	5	10	5 J	680	190	ND	620	710	320 DJ
Toluene	5	4 J	1 J	28	2 J	ND	7	ND	17 J	22	6 J
Xylene	5	10	9	20	6 J	ND	120	ND	180	200	82 J
Select PAH Compounds											
Acenaphthene	20 G	51	67	61	2 J	97 D	30	ND	340 EJ	260 D	17 J
Fluorene	50 G	9 J	11	10	13 J	29	7 J	ND	66	66	62 J
Naphthalene	10 G	79	65	98	34 J	340 D	0.8 J	1 J	2,400 D	750 D	430 DJ
Phenanthrene	50 G	16	15	12	12 J	34	0.6 J	ND	120 EJ	72	53 J

	NYSDEC GW Criteria	MW-27D			MW-28S			MW-28D		
		Nov-00	Oct-01	Nov-02	Nov-00	Oct-01	Nov-02	Nov-00	Oct-01	Nov-02
BTEX Compounds										
Benzene	1	110 J	18	400 DJ	500	890	200 J	190	390	43 J
Ethylbenzene	5	78 J	21	300 DJ	560	1,800	1,100 J	190	1,200 D	78 J
Toluene	5	1 J	ND	5 J	240	850	310 J	21	220	16 J
Xylene	5	30 J	10 J	110 J	610	2,500	970 J	86	600	33 J
Select PAH Compounds										
Acenaphthene	20 G	270 EJ	140	320 DJ	94 EJ	49	70 J	10 J	11	4 J
Fluorene	50 G	46	54	60 J	22	50	47 J	3.0 J	3 J	0.9 J
Naphthalene	10 G	1,800 D	940 D	2,200 DJ	3,900 D	8,700 D	5,400 DJ	750 D	460 D	0.4 J
Phenanthrene	50 G	81 EJ	79	62 J	34	72	51 J	ND	2 J	0.3 J

Table 7

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Comparison of Groundwater Analytical Results for Selected Onsite Monitoring Wells (ppb)

Notes:

1. NYSDEC GW Criteria are the NYSDEC Class GA Standards from New York State Department of Environmental Conservation (NYSDEC) document entitled, "Division of Water, Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1), reissued June 1998 and addended April 2000.
2. Concentrations reported in parts per billion (ppb).
3. J = Indicates an estimated concentration.
4. D = Indicates that the detected concentration is based on a diluted sample analysis.
5. ND - Indicates that the compound was not detected at concentrations exceeding the laboratory detection limit.
6. G - The value listed is a Guidance Value in NYSDEC TOGS 1.1.1.
7. Bold and shaded values indicate that the constituent was detected at or above the NYSDEC Class GA Standards or Guidance Values.

Table 8

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Comparison of Groundwater Analytical Results for Select Offsite Monitoring Wells (ppb)

	NYSDEC GW	MW-16R					MW-17S					MW-17D				
Constituent	Criteria	Jun-97	Jul-99	Nov-00	Oct-01	Nov-02	Jun-97	Jul-99	Nov-00	Oct-01	Nov-02	Jun-97	Jul-99	Nov-00	Oct-01	Nov-02
BTEX Compounds																
Benzene	1	840	720	780 JD	15	10 J	850	530	48 J	3.7 J	ND	1000	520	530 DJ	94	55 J
Ethylbenzene	5	230	270	240 JD	5	3 J	21 J	17 J	ND	ND	ND	19 J	8 J	4 J	2.8 J	12 J
Toluene	5	200	130	74 J	2.4 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene	5	230	250	180 J	4.4 J	1 J	ND	ND	ND	ND	ND	36 J	9 J	7 J	5.2 J	11 J
Select PAH Compounds																
Acenaphthene	20 G	53	78	54	58	1 J	110	130	ND	6 J	11	40 J	80	40	24	ND
Fluorene	50 G	14	21	13	19	16 J	11	12	ND	ND	0.4 J	4 J	7 J	4 J	3 J	6 J
Naphthalene	10 G	1,300 D	1,700 D	27	800 D	950 D	7 J	7 J	ND	0.8 J	1 J	9 J	5 J	2 J	0.8 J	2 J
Phenanthrene	50 G	12	19	4 J	14	9 J	6 J	4 J	ND	ND	ND	2 J	2 J	ND	0.6 J	1 J

Constituent	NYSDEC GW Criteria	MW-18S					MW-23S				
		Jun-97	Jul-99	Nov-00	Oct-01	Nov-02	Jul-99	Jul-98	Nov-00	Oct-01	Nov-02
BTEX Compounds											
Benzene	1	180	810	490 D	130	360 J	620 D	360 D	200 D	140 J	9 J
Ethylbenzene	5	160	1100	520 D	31	490 J	6	23	2 J	1.7 J	ND
Toluene	5	5	20 J	8 J	ND	6 J	2 J	ND	ND	ND	ND
Xylene	5	43	240	98 J	6.5 J	70 J	4 J	4	ND	ND	ND
Select PAH Compounds											
Acenaphthene	20 G	14 J	210 J	4.0 J	66	41 J	180 J	88	79	78	15
Fluorene	50 G	ND	27 J	ND	8 J	6 J	10	4 J	4 J	6 J	0.6 J
Naphthalene	10 G	730 DJ	4,900 D	530 D	3500 D	850 DJ	9.0 J	22	3 J	4 J	0.3 J
Phenanthrene	50 G	ND	ND	ND	3 J	6 J	4.0 J	1 J	2 J	2 J	ND

Table 8

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Comparison of Groundwater Analytical Results for Select Offsite Monitoring Wells (ppb)

Notes:

1. NYSDEC GW Criteria are the NYSDEC Class GA Standards from New York State Department of Environmental Conservation (NYSDEC) document entitled, "Division of Water, Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1), reissued June 1998 and addended April 2000.
2. Concentrations reported in parts per billion (ppb).
3. J = Indicates an estimated concentration.
4. D = Indicates that the detected concentration is based on a diluted sample analysis.
5. ND - Indicates that the compound was not detected at concentrations exceeding the laboratory detection limit.
6. G - The value listed is a Guidance Value in NYSDEC TOGS 1.1.1.
7. Bold and shaded values indicate that the constituent was detected at or above the NYSDEC Class GA Standards or Guidance Values.

Table 9

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

NAPL Thickness Measurements (ft)

Well Number	Thickness 9/27/1996	Type	Thickness 6/2/1997	Type	Thickness 7/30/1998	Type	Thickness 8/31/1998	Type	Thickness 10/5/1998	Type	Thickness 10/30/1998	Type	Thickness 12/8/1998	Type	Thickness 1/6/1999	Type	Thickness 2/3/1999	Type	Thickness 3/2/1999	Type	Thickness 3/30/1999	Type	Thickness 5/6/1999	Type
MW-01	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-02	0.07	D	0.05	D	ND		ND		ND		ND		ND		ND		ND		ND		Trace	D	Trace	D
MW-03	ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-04	ND		2.07	L	1.05*	L	1.34*	L	0.64*	L	0.24*	L	0.30*	L	0.24*	L	0.01*	L	0.02*	L	1.29*	L	0.70*	L
MW-05	0.15	D	ND		ND		Trace	D	Trace	D	ND		ND		ND		ND		Trace	D	Trace	D	Trace	D
MW-06A	NI		ND		ND		ND		ND		ND		ND		ND		--		--		ND		ND	
MW-06S	NI		ND		4.80	D	4.80	D	4.88	D	4.88	D	--		4.94	D	--	--	--	--	4.87	D	4.84	D
MW-07	0.02	D	ND		ND		Trace	D	ND		ND		ND		0.01	L	ND		Trace	D	Trace	D	Trace	D
MW-08	1.20	L	0.10	L	0.50*	L	0.64*	L	0.61*	L	0.30*	L	0.34*	L	0.04*	L	0.01*	L	0.03*	L	0.07*	L	Trace*	L
MW-09	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-10	0.87	L	0.61	L	0.50*	L	0.42*	L	0.35*	L	0.17*	L	0.07*	L	0.32*	L	0.22*	L	0.25*	L	0.11*	L	0.28*	L
MW-11	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-12	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-13	0.11	L	0.05	L	0.01	L	ND		ND		ND		ND		0.01	L	ND		ND		ND		Trace*	L
MW-14	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-15S	NI		ND		ND		NM		ND		NM		ND		NM		ND		NM		NM		ND	
MW-16D	NI		ND		ND		NM		ND		NM		ND		NM		ND		NM		NM		ND	
MW-16R	NI		ND		NM		NM		ND		NM		ND		NM		ND		NM		NM		ND	
MW-17D	NI		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-17S	NI		ND		NM		NM		NM		NM		ND		NM		NM		NM		NM		NM	
MW-18S	NI		ND		NM		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-19D	NI		ND		NM		NM		NM		NM		ND		NM		NM		NM		NM		NM	
MW-20D	NI		ND		NM		NM		NM		NM		ND		NM		NM		NM		NM		NM	
MW-21D	NI		ND		NM		NM		NM		NM		ND		NM		NM		ND		NM		NM	
MW-21R	NI		ND		NM		NM		NM		NM		ND		NM		NM		ND		NM		NM	
MW-21S(R)	NI		ND		NM		NM		NM		NM		ND		NM		NM		ND		NM		NM	
MW-22D	NI		ND		NM		NM		NM		NM		ND		NM		NM		ND		NM		NM	
MW-22R	NI		ND		NM		NM		NM		NM		ND		NM		NM		ND		NM		NM	
MW-22S	NI		ND		NM		NM		NM		NM		ND		NM		NM		ND		NM		NM	
MW-23S	NI		NI		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-24S	NI		NI		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-25S	NI		NI		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-26D	NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI	
MW-26S	NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI	
MW-27D	NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI	
MW-27S	NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI	
MW-28D	NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI	
MW-28S	NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI		NI	
PZ-01D	NI		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
PZ-01S	NI		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		ND	
PZ-02	NI		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	

Table 9

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

NAPL Thickness Measurements (ft)

Well	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type	Thickness	Type
Number	6/2/1999		7/13/1999		10/30/2000		2/21/2001		6/2/2001		8/23/2001		10/22/2001		2/19/2002		5/22/2002		9/20/2002		11/12/2002	
MW-01	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-02	Trace	D	Trace	D	ND		ND		Trace	D	Trace	D	Trace	D	Trace	D	Trace	D	Trace	D	Trace	D
MW-03	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-04	0.36*	L	0.77*	L	ND		0.08	L	0.37	L	0.28	L	Trace	L	Trace	L	0.05	L	0.03	L	Trace	L
MW-05	Trace	D	Trace	D	Trace ^{LP}	D	0.03 ^P	D	Trace	D	Trace	D	0.20	D	Trace	D	Trace	D	Trace	D	Trace	D
MW-06A	ND		ND		Trace ^P	D	ND		ND		ND		ND		ND		ND ^I		ND		ND	
MW-06S	4.61	D	4.65	D	3.1 ^I	D	3.66 ^{Pt}	D	3.55**	D	3.58**	D	3.5**	D	3.66**	D	3.63** ^I	D	3.76**	D	4.06**	D
MW-07	0.01**	D	**	D	0.6 ^P /3.3 ^I	D	0.18 ^P	D	2.45**	D	2.49**	D	2.0**	D	2.16**	D	2.19**	D	2.11**	D	2.11**	D
MW-08	0.01*	L	0.01*	L	0.15*	L	0.14	L	0.03	L	0.04	L	0.07	L	0.15	L	Trace	L	0.07	L	0.05	L
MW-09	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-10	0.08*	L	0.01*	L	0.37*	L	0.29	L	0.16	L	0.36	L	0.29	L	0.19	L	0.1	L	0.14	L	0.22	L
MW-11	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-12	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-13	Trace	L	Trace	L	1.1 ^I	D	0.005 ^P	L	Trace	L	Trace	L	Trace	L	Trace	L	Trace	L	Trace	L	Trace	L
							Trace ^P /0.16 ^I	D	Trace	D					ND		ND		ND		ND	D
MW-14	NM		ND		3.4 ^P /Trace ^I	D	0.01 ^P	L	ND		ND		ND		ND		ND		ND		ND	
							0.13 ^P	D														
MW-15S	NM		ND		NM		ND		ND		ND		ND		ND		ND		ND		ND	
MW-16D	NM		ND		NM		ND		ND		ND		ND		ND		ND		ND		ND	
MW-16R	NM		ND		NM		ND		ND		ND		ND		ND		ND		ND		ND	
MW-17D	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-17S	NM		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-18S	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-19D	NM		ND		NM		NM		ND		ND		NM		ND		ND		ND		ND	
MW-20D	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-21D	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-21R	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-21SR	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-22D	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-22R	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-22S	NM		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-23S	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-24S	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
MW-25S	ND		ND		ND		ND		ND		NM		ND		ND		ND		ND		ND	
MW-26D	NI		NI		ND		ND		ND		ND		Trace	D	ND		Trace	D	Trace	D	Trace	D
MW-26S	NI		NI		ND		<0.01	L	Trace	L	Trace	L	ND		Trace	L	ND		ND		ND	
MW-27D	NI		NI		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-27S	NI		NI		ND		<0.01	L	Trace	L	ND		ND		ND		ND		ND		ND	
MW-28D	NI		NI		ND		ND		ND		ND		ND		ND		ND		ND		ND	
MW-28S	NI		NI		ND		<0.01		ND		ND		ND		ND		ND		ND		ND	
PZ-01D	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
PZ-01S	ND		ND		NM		NM		NM		NM		NM		NM		NM		NM		NM	
PZ-02	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	

Table 9

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

NAPL Thickness Measurements (ft)

Notes:

1. NM = Not measured.
2. NI = Not installed at the time of the monitoring event.
3. ND = NAPL was checked for but not observed.
4. D = Indicates Dense, Non-Aqueous Phase Liquid (DNAPL) was observed.
5. L = Indicates Light, Non-Aqueous Phase Liquid (LNAPL) was observed.
6. * Indicates NAPL was removed by bailing to the extent practicable as part of an Interim Remedial Measure (IRM).
7. DNAPL was not able to be recovered from monitoring well MW-06S by bailing or using a peristaltic pump.
8. -- = Monitoring wells not gauged due to coverage of wells by snowbanks or water.
9. ** = Indicates DNAPL was too thick to recover and/or determine the total depth of the well.
10. ¹ = Per discussions with the NYSDEC, due to the presence of standing water over the wells at the time of monitoring, DNAPL measurements for MW-6S and MW-6A were collected on July 1, 2002,
11. For MW-7, the depth of well at installation is approximately 3.5 feet deeper than currently observed. Probing this well with a tremie pipe on 10/30/00 indicated a DNAPL thickness consistent with the installation depth.
12. p = Depth as measured using a water level probe and/or an oil/water interface probe.
13. t = Depth as measured using a polyvinyl chloride (PVC) tremie pipe.

Table 10

Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-01 1997	MW-01 1999	MW-01 2000	MW-01 2001	MW-01 2002	MW-02 2000	MW-03 1999	MW-03 2000	MW-03 2001	MW-03 2002	MW-04 2000	MW-05 1997	MW-06A 1997	MW-06A 1999	MW-06A 2000	MW-06A 2001	MW-06A 2002
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	18 J	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15 J
Benzene	1	ND	ND	ND	ND	ND	5,700 D	ND	ND	ND	ND	110	3,200	ND	ND	ND	ND	ND
Bromodichloromethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	5,700 D	ND	ND	ND	ND	560	250	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0 J	ND	12 J
Methylene chloride	5	ND	ND	7.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	1 J	ND	ND	ND	ND	5,000 D	ND	ND	ND	ND	250	130 J	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	ND	ND	ND	ND	ND	5,500 D	ND	ND	ND	ND	720	180 J	ND	ND	ND	ND	ND

Table 10

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-09 1997	MW-09 1999	MW-09 2000	MW-09 2001	MW-09 2002	MW-11 1997	MW-11 1999	MW-11 2000	MW-11 2001	MW-11 2002	MW-12 1997	MW-12 1999	MW-12 2000	MW-12 2001	MW-12 2002
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 10

Niagara Mohawk, a National Grid Company
North Albany Service Center
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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-14 1997	MW-14 1999	MW-14 2001	MW-14 2002	MW-20D 1997	MW-20D 1999	MW-20D 2000	MW-20D 2001	MW-20D 2002	MW-21SR 2000	MW-21SR 2001	MW-21SR 2002	MW-26D 2000	MW-26D 2001	MW-26S 2000	MW-26S 2001	MW-26S 2002
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8 J	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	63 J	ND	31	ND
Benzene	1	120	50	210 D	52 J	ND	ND	ND	ND	ND	ND	ND	ND	310	20 J	18 J	34	ND
Bromodichloromethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	16	5	10	5 J	ND	ND	ND	ND	ND	ND	ND	ND	760	320 DJ	680	190	ND
Methyl tert-butyl ether	10 G	ND	ND	ND	18 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND
Toluene	5	4 J	1.0 J	28	2 J	ND	ND	ND	ND	ND	ND	ND	ND	42	18 J	ND	7	ND
trans-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	530 J	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	10	9	20	6 J	ND	ND	ND	ND	ND	ND	ND	ND	700	39 J	500	120	ND

Table 10

Niagara Mohawk, a National Grid Company
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Albany, New York

Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW	MW-27D	MW-27D	MW-27D	MW-27S	MW-27S	MW-27S	MW-28D	MW-28D	MW-28D	MW-28S	MW-28S	MW-28S	MW-28S	PZ-01D	PZ-01D	PZ-01D	PZ-01D	PZ-01S
	Criteria	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002	1999	2000	2001	2002	1999	
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	110 J	18	400 D	1,300 D	2400 D	350 D	190	390	43 J	500	890	200 J	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	ND	ND	ND	ND	ND	11	2 J	26	11	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	78 J	21	300 D	620	710	320 D	190	1200 D	78 J	560	1,800	1,100 J	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10 G	ND	ND	ND	ND	ND	ND	42	ND	13 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	5 J	150	490	130 J	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	1.0 J	ND	5 J	17 J	22	6 J	21	220	16 J	240	850	310 J	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	10 J	11 J	ND	200	ND	ND	600	ND	ND	2,500	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	30 J	ND	110 J	180	ND	82 J	86	ND	33 J	610	ND	970 J	ND	ND	ND	ND	ND	ND

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Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW	PZ-01S	PZ-01S	PZ-01S	PZ-02	PZ-02	PZ-02
	Criteria	2000	2001	2002	2000	2001	2002
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND
Acetone	50 G	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50 G	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10 G	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	ND	ND	ND	ND	ND	ND

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Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-01	MW-01	MW-01	MW-01	MW-01	MW-02	MW-03	MW-03	MW-03	MW-03	MW-04	MW-05	MW-06A	MW-06A	MW-06A	MW-06A	MW-06A
		1997	1999	2000	2001	2002	2000	1999	2000	2001	2002	2000	1997	1997	1999	2000	2001	2002
Semi-Volatile Organic Compounds (SVOCs)																		
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	ND	ND	ND	ND	ND	490 EJ	ND	ND	ND	ND	40	7 J	ND	ND	ND	ND	ND
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	4 J	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-09 1997	MW-09 1999	MW-09 2000	MW-09 2001	MW-09 2002	MW-11 1997	MW-11 1999	MW-11 2000	MW-11 2001	MW-11 2002	MW-12 1997	MW-12 1999	MW-12 2000	MW-12 2001	MW-12 2002
Semi-Volatile Organic Compounds (SVOCs)																
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-14 1997	MW-14 1999	MW-14 2001	MW-14 2002	MW-20D 1997	MW-20D 1999	MW-20D 2000	MW-20D 2001	MW-20D 2002	MW-21SR 2000	MW-21SR 2001	MW-21SR 2002	MW-26D 2000	MW-26D 2001	MW-26S 2000	MW-26S 2001	MW-26S 2002
Semi-Volatile Organic Compounds (SVOCs)																		
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	6 J	10	14	12 J	ND	ND	ND	ND	ND	ND	ND	ND	160	25	24	ND	ND
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5 J	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-27D	MW-27D	MW-27D	MW-27S	MW-27S	MW-27S	MW-28D	MW-28D	MW-28D	MW-28S	MW-28S	MW-28S	PZ-01D	PZ-01D	PZ-01D	PZ-01D	PZ-01S
		2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002	1999	2000	2001	2002	1999
Semi-Volatile Organic Compounds (SVOCs)																		
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	13	ND	ND	11 D	0.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	46	96	230 DJ	40	31	270 DJ	10 J	23	0.7 J	23	320 D	200 DJ	ND	ND	ND	ND	ND
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	4 J	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	PZ-01S	PZ-01S	PZ-01S	PZ-02	PZ-02	PZ-02
		2000	2001	2002	2000	2001	2002
Semi-Volatile Organic Compounds (SVOCs)							
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND

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Constituent	NYSDEC GW Criteria	MW-01 1997	MW-01 1999	MW-01 2000	MW-01 2001	MW-01 2002	MW-02 2000	MW-03 1999	MW-03 2000	MW-03 2001	MW-03 2002	MW-04 2000	MW-05 1997	MW-06A 1997	MW-06A 1999	MW-06A 2000	MW-06A 2001	MW-06A 2002
Semi-Volatile Organic Compounds (SVOCs) (cont'd)																		
Acenaphthene	20 G	ND	ND	ND	ND	ND	240 EJ	ND	ND	ND	ND	7.0 J	150 D	ND	ND	1.0 J	1 J	0.6 J
Acenaphthylene	NA	ND	ND	ND	ND	ND	470 EJ	ND	ND	ND	ND	30	34	ND	ND	ND	ND	ND
Anthracene	50 G	ND	ND	ND	ND	ND	10 J	ND	ND	ND	ND	3.0 J	12	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002 G	ND	ND	ND	ND	ND	1.0 J	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND
Benzo(a)pyrene	NA	ND	ND	ND	ND	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NA	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	12	ND	ND	1.0 J	ND	16	ND	ND	ND	2 J	ND	1.0 J	2.0 J	ND	ND
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NA	ND	ND	ND	ND	ND	12 J	ND	ND	ND	ND	ND	4 J	ND	ND	ND	ND	ND
Chrysene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND
Dibenzofuran	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5 J	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	ND	ND	ND	ND	ND	3.0 J	ND	ND	ND	ND	ND	8 J	ND	ND	ND	ND	ND
Fluorene	50 G	ND	ND	ND	ND	ND	7.0 J	ND	ND	ND	ND	21	67	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	ND	ND	ND	ND	ND	13,000 D	ND	ND	ND	ND	1,500 D	740 D	ND	ND	5.0 J	2 J	0.8 J
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	ND	ND	ND	ND	ND	61 J	ND	ND	ND	ND	21	51	ND	ND	ND	ND	ND
Phenol	1 a	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	27	ND	ND	ND	ND	ND
Pyrene	50 G	ND	ND	ND	ND	ND	6.0 J	ND	ND	ND	ND	10 J	13	ND	ND	ND	ND	ND

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Constituent	NYSDEC GW Criteria	MW-09 1997	MW-09 1999	MW-09 2000	MW-09 2001	MW-09 2002	MW-11 1997	MW-11 1999	MW-11 2000	MW-11 2001	MW-11 2002	MW-12 1997	MW-12 1999	MW-12 2000	MW-12 2001	MW-12 2002
Semi-Volatile Organic Compounds (SVOCs) (cont'd)																
Acenaphthene	20 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	5.0 J	ND	ND	ND	6 J	2.0 J	ND	ND	ND	2 J	ND	ND	ND	ND
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND	0.3 J
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Constituent	NYSDEC GW Criteria	MW-14 1997	MW-14 1999	MW-14 2001	MW-14 2002	MW-20D 1997	MW-20D 1999	MW-20D 2000	MW-20D 2001	MW-20D 2002	MW-21SR 2000	MW-21SR 2001	MW-21SR 2002	MW-26D 2000	MW-26D 2001	MW-26S 2000	MW-26S 2001	MW-26S 2002
Semi-Volatile Organic Compounds (SVOCs) (cont'd)																		
Acenaphthene	20 G	51	67	61	57 J	ND	ND	ND	ND	ND	ND	ND	ND	190	220 D	97 D	30	ND
Acenaphthylene	NA	6 J	4.0 J	0.7 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	6 J	2.0 J	2 J	ND
Anthracene	50 G	2 J	2.0 J	2 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	5.0 J	ND	ND
Benzo(a)anthracene	0.002 G	ND	1.0 J	ND	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND	ND	1 J	ND	1 J	ND
Benzo(a)pyrene	NA	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8 J	ND	2 J	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	ND
Benzo(k)fluoranthene	0.002 G	ND	1.0 J	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	1 J	ND
Benzoic acid	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	81	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	1.0 J	ND	0.4 J	15	ND	28	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NA	1 J	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0 J	ND	ND
Chrysene	0.002 G	ND	1.0 J	ND	ND	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	1 J	ND	1 J	ND
Dibenzofuran	NA	ND	ND	0.6 J	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	2.0 J	0.5 J	ND
Di-n-butyl phthalate	50	ND	ND	ND	0.6 J	ND	ND	ND	ND	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	2 J	4.0 J	2 J	2 J	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND	12	3.0 J	3 J	ND
Fluorene	50 G	9 J	11	10	13 J	ND	ND	ND	ND	ND	ND	ND	ND	74 J	100	29	7 J	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 J	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	79	65	12	34 J	ND	ND	ND	ND	ND	ND	ND	0.9 J	5,300 D	3 J	340 D	0.8 J	1 J
Nitrobenzene	0.4	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	16	15	ND	12 J	ND	ND	ND	ND	ND	ND	ND	ND	92 J	120	34	0.6 J	ND
Phenol	1 a	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	50 G	4 J	6.0 J	ND	2 J	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND	15	3.0 J	5 J	ND

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Constituent	NYSDEC GW Criteria	MW-27D 2000	MW-27D 2001	MW-27D 2002	MW-27S 2000	MW-27S 2001	MW-27S 2002	MW-28D 2000	MW-28D 2001	MW-28D 2002	MW-28S 2000	MW-28S 2001	MW-28S 2002	PZ-01D 1999	PZ-01D 2000	PZ-01D 2001	PZ-01D 2002	PZ-01S 1999
Semi-Volatile Organic Compounds (SVOCs) (cont'd)																		
Acenaphthene	20 G	270 EJ	140	320 D	340 EJ	260 D	210 DJ	10 J	11	4 J	94 EJ	49	70 J	ND	ND	ND	ND	2.0 J
Acenaphthylene	NA	8.0 J	7 J	7 J	7.0 J	11	8 J	26 J	12	5 J	49	320 D	150 DJ	ND	ND	ND	ND	ND
Anthracene	50 G	9.0 J	15	17 J	15	22	17 J	ND	ND	ND	5.0 J	9 J	9 J	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002 G	ND	0.7 J	0.7 J	ND	2 J	0.8 J	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND	ND	ND
Benzo(a)pyrene	NA	ND	ND	ND	ND	1 J	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24 J	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	4.0 J	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	4.0 J	ND	ND	ND
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NA	1.0 J	ND	3 J	6.0 J	ND	6 J	ND	ND	ND	4.0 J	ND	7 J	ND	ND	ND	ND	ND
Chrysene	0.002 G	ND	ND	0.5 J	ND	ND	0.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NA	5.0 J	9 J	9 J	ND	9 J	6 J	ND	ND	ND	2.0 J	7 J	5 J	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	6.0 J	13	11 J	5.0 J	13	9 J	ND	ND	ND	ND	ND	5 J	ND	ND	ND	ND	ND
Fluorene	50 G	46	54	60 J	66	66	62 J	3.0 J	3 J	0.9 J	22	50	47 J	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	1,800 D	940 D	2,200 DJ	2,400 D	750 D	430 DJ	750 D	460 D	0.4 J	3,900 D	8700 D	5,400 DJ	ND	ND	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	81 EJ	79	62 J	120 EJ	72	53 J	ND	2 J	0.3 J	34	72	51 J	ND	ND	ND	ND	ND
Phenol	1 a	ND	ND	2 J	ND	26	1 J	ND	ND	2 J	ND	16	4 J	ND	ND	ND	ND	ND
Pyrene	50 G	11 J	15	12 J	13 J	18	11 J	ND	ND	ND	5.0 J	4 J	4 J	ND	ND	ND	ND	ND

Table 10

Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	PZ-01S	PZ-01S	PZ-01S	PZ-02	PZ-02	PZ-02
		2000	2001	2002	2000	2001	2002
Semi-Volatile Organic Compounds (SVOCs) (cont'd)							
Acenaphthene	20 G	2.0 J	2 J	2 J	ND	ND	ND
Acenaphthylene	NA	ND	ND	ND	ND	ND	ND
Anthracene	50 G	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002 G	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NA	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND
Benzoic acid	NA	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND
Carbazole	NA	ND	ND	ND	ND	ND	ND
Chrysene	0.002 G	ND	ND	ND	ND	ND	ND
Dibenzofuran	NA	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	0.6 J	ND	ND	ND
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	ND	ND	ND	ND	ND	ND
Fluorene	50 G	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	10	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	ND	ND	ND	ND	ND	ND
Phenol	1 a	ND	ND	ND	ND	ND	ND
Pyrene	50 G	ND	ND	ND	ND	ND	ND

Table 10

Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-01 1997	MW-01 1999	MW-01 2000	MW-01 2001	MW-01 2002	MW-02 2000	MW-03 1999	MW-03 2000	MW-03 2001	MW-03 2002	MW-04 2000	MW-05 1997	MW-06A 1997	MW-06A 1999	MW-06A 2000	MW-06A 2001	MW-06A 2002
Inorganics																		
Aluminum	NA	65 B	420	208	ND	108 U	173 B	121 B	ND	ND	33.7 U	2,780	ND	565	956	365	224	1,270
Antimony	3	ND	7.9 B	ND	ND	5.4 U	ND	10.2 B	ND	ND	5.4 U	ND	ND	ND	7.1 B	ND	ND	4 U
Arsenic	25	ND	ND	ND	ND	4 U	21	ND	ND	ND	4 U	11	7.8 B	ND	5.8 b	6.3 B	14	16.7
Barium	1,000	104 B	127 B	108 B	120	119 B	3,010	251	256	365	338	93.9 B	377	156 B	253	435	657	514
Beryllium	3 G	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	ND	ND	0.8 U
Cadmium	5	ND	ND	ND	ND	0.3 U	12	ND	ND	ND	1.8 J	ND	ND	ND	ND	ND	ND	0.9 U
Calcium	NA	153,000	164,000	144,000	147,000	143,000 J	154,000	288,000	288,000	331,000	305,000 J	152,000	180,000	256,000	246,000	217,000	218,000	198,000
Chromium	50	ND	ND	ND	ND	1.3 B	ND	ND	ND	ND	2.4 U	7.3 B	ND	ND	ND	ND	ND	2.5 B
Cobalt	NA	ND	ND	ND	ND	0.5 U	ND	1.6 B	ND	ND	1.8 B	7.4 B	ND	ND	1.6 B	ND	ND	2.7 B
Copper	200	ND	ND	ND	ND	1.6 B	8.0 B	ND	3.2 B	ND	2.5 B	21.8 B	ND	ND	4.9 B	7.8 B	ND	2.1 U
Cyanide	200 L	R	ND	ND	ND	20.2 J	28	ND	ND	ND	10 U	2,030	807	344	224	203	160	418 J
Iron	300 h	1,830	2,760	2,680	1,450	2,650 J	28,500	ND	ND	ND	20.6 U	5,430	20,000	39,800	44,100	48,900	50,100	45,500
Lead	25	ND	2.4 B	ND	ND	2.3 U	ND	2.4 B	ND	ND	9.4	25	2.8 B	2.2 B	7	6	ND	5.6
Magnesium	35,000 G	39,100	38,200	35,700	37,400	36,700 J	35,000	79,300	82,300	107,000	102,000 J	64,500	19,400	36,400	36,200	36,200	39,400	34,700
Manganese	300 h	947	816	1,930	739	1,000 J	631	7,950	8,090	12,200	11,600 J	96	1,060	4,260	3,960	3,070	2,930	2,770 J
Mercury	0.7	ND	ND	ND	ND	0.065 U	ND	ND	ND	ND	0.065 U	ND	0.12 B	ND	ND	ND	ND	0.035 U
Nickel	100	ND	ND	ND	ND	1.1 B	ND	ND	ND	ND	2.8 B	5.6 B	ND	ND	ND	ND	ND	1.5 B
Potassium	NA	7,630	9,530	8,160	10,600 J	8,560 BJ	5,630	25,200	23,200	33,400	1,270 BJ	13,600	14,800	12,000	11,500	8,710	10,400	8,760 B
Selenium	10	ND	ND	ND	ND	4 U	ND	ND	ND	ND	4 U	ND	ND	3.4 B	ND	5.0 JN	ND	5 U
Silver	50	ND	ND	ND	ND	0.5 U	ND	ND	ND	ND	0.5 U	ND	ND	ND	ND	ND	ND	1 U
Sodium	20,000	144,000	194,000	202,000	237,000	237,000 J	142,000 EJ	323,000	364,000	452,000	102,000 J	285,000 EJ	518,000	222,000	203,000	194,000	204,000	207,000
Thallium	0.5 G	ND	ND	ND	ND	3.9 U	ND	8.3 B	ND	ND	3.9 U	ND	ND	ND	ND	ND	ND	7 U
Vanadium	NA	ND	ND	ND	ND	0.7 U	ND	ND	ND	ND	0.7 U	4.4 B	ND	ND	2.1 B	ND	ND	2 U
Zinc	2,000 G	ND	3.9 B	6.8 B	ND	6.2 B	3.7 B	ND	2.0 B	ND	7.8 B	74	ND	ND	23	12.5 B	ND	22.9

Table 10

Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW	MW-09	MW-09	MW-09	MW-09	MW-09	MW-11	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-12
	Criteria	1997	1999	2000	2001	2002	1997	1999	2000	2001	2002	1997	1999	2000	2001	2002
Inorganics																
Aluminum	NA	ND	121 B	120 B	ND	32.5 U	ND	ND	123 B	ND	60 U	315	276	241	ND	142 U
Antimony	3	ND	6.0 B	ND	ND	5.4 U	ND	ND	ND	ND	5.4 U	ND	8.3 B	ND	ND	5.4 U
Arsenic	25	ND	ND	ND	ND	4 U	20	14	41	69	25.5	ND	ND	ND	ND	4 U
Barium	1,000	110 B	120 B	92.6 B	99	92.1 B	105 B	199 B	299	447	204	74.4 B	75.2 B	71 B	73	80.3 B
Beryllium	3 G	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.2 U
Cadmium	5	ND	1.4 B	3.6 B	ND	0.3 U	ND	ND	ND	ND	0.3 U	ND	ND	ND	ND	0.3 U
Calcium	NA	209,000	240,000	206,000	214,000	213,000 J	104,000	198,000	198,000	163,000	133,000 J	182,000	175,000	151,000	148,000	180,000 J
Chromium	50	ND	ND	ND	ND	1.1 B	ND	ND	ND	ND	1.3 U	ND	ND	ND	ND	1.9 U
Cobalt	NA	ND	2.1 B	ND	ND	0.5 U	ND	3.1 B	ND	ND	0.5 U	2.1 B	2.9 B	ND	ND	3.1 B
Copper	200	ND	ND	ND	ND	2.1 B	ND	ND	ND	ND	2.1 U	ND	ND	ND	ND	2.8 U
Cyanide	200 L	ND	ND	ND	ND	10 U	ND	ND	ND	ND	10 U	R	ND	13	ND	11.1 J
Iron	300 h	573	833	957	598	594	25,900	39,800	49,500	55,600	31,100 J	104	130	ND	ND	131 U
Lead	25	ND	4	ND	ND	2.3 U	ND	ND	2.3 B	ND	2.3 U	ND	ND	ND	ND	2.3 U
Magnesium	35,000 G	58,200	63,600	57,000	61,900	63,600 J	21,600	39,500	37,700	32,100	27,200 J	38,800	36,300	31,600	33,000	40,200 J
Manganese	300 h	1,050	1,130	1,170	1,100	1,140 J	3,420	5,750	5,720	4,620	4,030 J	4,530	3,910	3,110	2,950	3,210 J
Mercury	0.7	ND	ND	ND	ND	0.065 U	ND	ND	ND	ND	0.065 U	ND	ND	ND	ND	0.065 U
Nickel	100	ND	ND	ND	ND	1 U	ND	ND	ND	ND	1 U	3.5 B	ND	ND	ND	6.2 B
Potassium	NA	5,150	6,350	6,040	7,110 J	5,560 BJ	6,710	9,540	10,700	11,200 J	10,600 J	10,100	10,100	9,270	10,700 J	8,190 BJ
Selenium	10	ND	3.0 B	ND	ND	4 U	3.5 B	ND	5.0 JN	ND	4 U	ND	7	ND	ND	4 U
Silver	50	ND	ND	ND	ND	0.5 U	ND	ND	ND	ND	0.5 U	ND	ND	ND	ND	0.75 B
Sodium	20,000	208,000	277,000	252,000 EJ	273,000	263,000 J	14,000	74,400	94,100 EJ	111,000	82,800 J	233,000	219,000	223,000	213,000	192,000 J
Thallium	0.5 G	ND	ND	ND	ND	6.5 U	ND	ND	6.5 B	ND	3.9 U	6.1 B	ND	ND	ND	7.1 U
Vanadium	NA	ND	ND	ND	ND	0.7 U	ND	ND	ND	ND	0.7 U	ND	ND	ND	ND	1.2 B
Zinc	2,000 G	ND	5.1 B	3.0 B	ND	13.1 B	ND	18.7 B	ND	ND	4.1 B	ND	4.3 B	2.7 B	ND	4.9 B

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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-14 1997	MW-14 1999	MW-14 2001	MW-14 2002	MW-20D 1997	MW-20D 1999	MW-20D 2000	MW-20D 2001	MW-20D 2002	MW-21SR 2000	MW-21SR 2001	MW-21SR 2002	MW-26D 2000	MW-26D 2001	MW-26S 2000	MW-26S 2001	MW-26S 2002
Inorganics																		
Aluminum	NA	198 B	265	ND	32.5 U	52.5 B	138 B	ND	ND	32.5 U	ND	ND	32.5 U	110 B	ND	384	ND	136 B
Antimony	3	ND	8.6 B	ND	5.4 U	ND	8.6 B	ND	ND	5.4 U	ND	ND	5.4 U	ND	ND	ND	ND	5.4 U
Arsenic	25	27	27	30	28.5	ND	ND	ND	ND	4 U	ND	ND	4 U	15	13	5.7 B	10	4 U
Barium	1,000	1,900	1,470	1,440	1,300	145 B	186 B	117 B	169	147 B	138 B	266	174 B	202	227	88.1 B	235	65 B
Beryllium	3 G	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.2 U	ND	ND	0.2 U	ND	ND	ND	ND	0.2 U
Cadmium	5	ND	ND	ND	0.3 U	ND	ND	ND	ND	0.3 U	ND	ND	0.3 U	ND	ND	ND	ND	0.3 U
Calcium	NA	313,000	253,000	218,000	199,000	238,000	307,000	181,000	272,000	229,000 J	118,000	195,000	157,000	110,000	135,000	61,400	132,000	52,600
Chromium	50	ND	ND	ND	1.5 B	ND	ND	ND	ND	0.72 U	ND	ND	0.69 B	ND	ND	ND	ND	1.9 B
Cobalt	NA	ND	2.6 B	ND	1.7 B	2 B	3.2 B	ND	ND	2.7 B	2.2 B	ND	0.83 U	2.1 B	ND	ND	ND	0.5 U
Copper	200	ND	ND	ND	1.7 U	ND	41.8	ND	ND	1.4 B	ND	ND	2.2 B	ND	ND	ND	ND	14.9 B
Cyanide	200 L	865	688	520	200 J	R	ND	ND	ND	10 U	ND	29	11.6 J	17	ND	15	ND	10 U
Iron	300 h	10,600	8,880	8,140	6,710	103	151	928	61	117 U	389	1,350	147	870	4,370	645	15,600	127
Lead	25	ND	5	ND	3.3	ND	4.1	ND	ND	2.3 U	ND	ND	2.3 U	ND	ND	ND	ND	2.3 U
Magnesium	35,000 G	61,800	47,400	43,900	40,700	57,500	69,100	41,000	65,500	56,900 J	18,000	33,400 J	27,000	28,300	34,100	8,920	19,200	8,490
Manganese	300 h	10,700	8,170	7,440	6,720 J	716	893	581	940	745 J	2,530	4,870	2,070 J	6,700	7,840	867	2,050	3.4 B
Mercury	0.7	ND	ND	ND	0.035 U	ND	ND	ND	ND	0.065 U	ND	ND	0.035 U	ND	ND	ND	ND	0.035 U
Nickel	100	ND	ND	ND	1 U	3.7 B	ND	ND	ND	4.3 B	5.6 B	ND	1.4 U	ND	ND	ND	ND	1 U
Potassium	NA	11,600	10,300	12,400	9,200 B	3,930 B	5,440	3,760	5,710 J	3,990 BJ	2,760 B	4,540	4,630 B	8,440	12,800	3,970 B	6,550	2,100 B
Selenium	10	9	ND	ND	4 U	ND	ND	ND	ND	4 U	ND	ND	4 U	ND	ND	6.7 JN	ND	5.2
Silver	50	ND	ND	ND	0.5 U	ND	ND	ND	ND	0.5 U	ND	ND	0.5 U	ND	ND	ND	ND	0.5 U
Sodium	20,000	377,000	342,000	340,000	330,000	243,000	454,000	390,000	456,000	410,000 J	8,600	76,200	40,300	297,000 EJ	315,000	107,000 EJ	236,000	124,000
Thallium	0.5 G	ND	ND	ND	3.9 U	ND	ND	ND	ND	3.9 U	ND	ND	3.9 U	6.8 B	ND	ND	ND	3.9 U
Vanadium	NA	ND	ND	ND	0.94 B	ND	ND	ND	ND	0.7 U	ND	ND	0.7 U	ND	ND	ND	ND	0.93 B
Zinc	2,000 G	ND	ND	ND	4.1 U	ND	30	5.1 B	ND	6.4 B	4.0 B	ND	18.6 B	ND	ND	ND	ND	19.5 B

Table 10

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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-27D 2000	MW-27D 2001	MW-27D 2002	MW-27S 2000	MW-27S 2001	MW-27S 2002	MW-28D 2000	MW-28D 2001	MW-28D 2002	MW-28S 2000	MW-28S 2001	MW-28S 2002	PZ-01D 1999	PZ-01D 2000	PZ-01D 2001	PZ-01D 2002	PZ-01S 1999
Inorganics																		
Aluminum	NA	119 B	ND	32.5 U	100 B	ND	32.5 U	161 B	ND	96 B	539	216	127 B	843	466	ND	51.2 U	111 B
Antimony	3	ND	ND	5.4 U	ND	ND	5.4 U	ND	ND	4 U	ND	ND	5.4 U	ND	ND	ND	5.4 U	6.4 B
Arsenic	25	18	17	12.5	4.8 B	ND	4 U	5.6 B	ND	3 U	4.5 B	13	8.7 B	17	27	20	23	4.1 B
Barium	1,000	518	582	584	275	318	262	2,070	7,890	7,910	64 B	96	52.2 B	459	581	751	398	190 B
Beryllium	3 G	ND	ND	0.2 U	ND	ND	0.2 U	ND	ND	0.8 U	ND	ND	0.2 U	ND	ND	ND	0.2 U	ND
Cadmium	5	ND	ND	0.3 U	ND	ND	0.3 U	ND	ND	0.9 U	ND	ND	0.3 U	ND	ND	ND	0.3 U	ND
Calcium	NA	169,000	181,000	181,000	156,000	209,000	156,000	205,000	191,000	189,000	285,000	541,000	390,000	121,000	134,000	222,000	100,000 J	144,000
Chromium	50	ND	ND	1.6 B	ND	ND	5.1 B	ND	ND	1 U	ND	ND	0.6 U	ND	ND	ND	0.6 U	ND
Cobalt	NA	ND	ND	0.5 U	2.0 B	ND	1.1 B	2.1 B	ND	2.9 B	2.9 B	ND	2.1 B	ND	ND	ND	0.5 U	ND
Copper	200	ND	ND	1.2 U	ND	ND	1.6 U	ND	ND	1 U	ND	ND	0.62 U	6.4 B	ND	ND	0.68 U	ND
Cyanide	200 L	96	ND	25.2 J	716	44	180 J	539	ND	114 J	1,110	49	316 J	28	58	120	10.6 J	33
Iron	300 h	44,100	50,600	44,800	11,700	8,660	15,800	283	480	482	910	1,140	3,860	13,400	16,900	22,000	13,800 J	21,000
Lead	25	3	ND	8.1	ND	ND	2.3 U	ND	ND	2 U	ND	ND	2.3 U	4	ND	ND	2.3 U	2.5 B
Magnesium	35,000 G	31,300	35,100	36,700	17,300	24,200	17,000	36,600	35,000	35,400	1,410 B	ND	3,400 B	13,700	14,300	23,500	10,900 J	17,000
Manganese	300 h	11,400	12,400	12,500 J	1,020	848	509 J	586	648	668 J	89	ND	113 J	1,630	1,840	3,130	1,710 J	1,790
Mercury	0.7	ND	ND	0.035 U	ND	ND	0.035 U	ND	ND	0.035 U	0.85	1.9	0.053 B	ND	ND	ND	0.065 U	ND
Nickel	100	ND	ND	1 U	ND	ND	3.8 B	ND	ND	1 U	ND	ND	1.7 B	ND	ND	ND	1 U	ND
Potassium	NA	15,900	19,700	14,600 B	12,200	19,000	9,170 B	11,800	13,300	9,660 B	14,300	29,900	7,070 B	5,540	5,630	8,180	5,980 J	10,900
Selenium	10	7.1 JN	ND	4 U	ND	ND	4 U	ND	ND	5 U	ND	ND	4 U	ND	ND	ND	4 U	ND
Silver	50	ND	ND	0.5 U	ND	ND	0.5 U	ND	ND	1 U	ND	ND	0.5 U	ND	ND	ND	0.5 U	ND
Sodium	20,000	249,000 EJ	272,000	245,000	215,000 EJ	292,000	184,000	347,000 EJ	347,000	330,000	246,000 EJ	389,000	106,000	116,000	85,800 EJ	159,000	97,800 J	98,300
Thallium	0.5 G	6.5 B	46	3.9 U	ND	ND	3.9 U	ND	ND	7 U	ND	ND	3.9 U	ND	ND	ND	3.9 U	ND
Vanadium	NA	ND	ND	0.7 U	ND	ND	1.7 B	ND	ND	1.3 U	4.1 B	6	6 B	ND	ND	ND	0.7 U	ND
Zinc	2,000 G	ND	ND	13.8 B	ND	ND	5.7 U	ND	ND	1.9 B	ND	ND	4.1 U	9.3 B	ND	ND	6.8 B	ND

Table 10

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Summary of Historical Groundwater Analytical Results - Onsite Monitoring Wells

Constituent	NYSDEC GW Criteria	PZ-01S 2000	PZ-01S 2001	PZ-01S 2002	PZ-02 2000	PZ-02 2001	PZ-02 2002
Inorganics							
Aluminum	NA	98.9 B	ND	32.5 U	132 B	ND	32.5 U
Antimony	3	ND	ND	5.4 U	ND	ND	5.4 U
Arsenic	25	8.4 B	ND	5 B	ND	ND	4 U
Barium	1,000	209	231	243	83 B	101	58.4 B
Beryllium	3 G	ND	ND	0.2 U	ND	ND	0.2 U
Cadmium	5	ND	ND	0.3 U	ND	ND	0.3 U
Calcium	NA	136,000	131,000	158,000 J	124,000	146,000	124,000 J
Chromium	50	ND	ND	1 B	ND	ND	0.67 U
Cobalt	NA	ND	ND	0.68 U	ND	ND	0.5 U
Copper	200	ND	ND	0.83 U	ND	ND	1.9 U
Cyanide	200 L	48	32	15 J	ND	10 J	10 U
Iron	300 h	33,200	30,400	28,600 J	ND	ND	79.2 U
Lead	25	ND	ND	2.3 U	ND	ND	2.3 U
Magnesium	35,000 G	16,500	16,000	20,600 J	24,100	27,400	15,800 J
Manganese	300 h	1,880	1,710	1,940 J	18	67	11.2 BJ
Mercury	0.7	ND	ND	0.065 U	ND	ND	0.065 U
Nickel	100	ND	ND	1.1 U	ND	ND	1 U
Potassium	NA	10,100	12,300	11,600 J	8,300	8,890	6,090 J
Selenium	10	ND	ND	4 U	ND	ND	4 U
Silver	50	ND	ND	0.5 U	ND	ND	0.5 U
Sodium	20,000	93,600 EJ	88,300	94,700 J	123,000 EJ	152,000	36,300 J
Thallium	0.5 G	ND	ND	3.9 U	ND	ND	3.9 U
Vanadium	NA	ND	ND	0.78 U	ND	ND	2.7 B
Zinc	2,000 G	ND	ND	8.4 B	2.4 B	ND	7.9 B

Notes:

- Samples collected by Blasland, Bouck, & Lee, Inc.
- L = Applies to total cyanide.
- h = Iron and manganese criteria is for 300 ug/L individually, or 500 ug/L as a sum.
- a = Value listed applies to the sum of these substances.
- c = Value listed applies to both the cis and trans isomers separately.
- d = Value listed applies to each isomer individually.
- e = Value listed applies to the sum of the isomers.
- G = Guidance Value.
- NA = No GA standard or guidance value for groundwater is available for these substances.
- Concentrations reported in micrograms per liter (ug/L) equivalent to parts per billion (ppb).
- New York State Department of Environmental Conservation (NYSDEC) Class GA Standards from NYSDEC document entitled, "Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, reissued June 1998 and addended April 2000).
- Samples were analyzed for VOCs using USEPA SW-846 Method 8260, SVOCs using USEPA SW-846 Method 8270; inorganic constituents using USEPA SW-846 Method 6010 (with the exception of cyanide); cyanide using USEPA SW-846 Method 9010.
- Laboratory analysis for 1997, 1999, and 2000 was conducted by Galson Laboratories, Inc. (Galson) located in Syracuse, New York. Laboratory analysis for 2001 and 2002 was conducted by Severn Trent Laboratories, Inc. (STL) located in Amherst, New York.
- MW = Monitoring Well.
- ND = Indicates that the constituent was not detected.
- D = Indicates that the concentration is based on a diluted sample analyses.
- E = Identifies the compound whose concentrations exceed the calibration range of the equipment.
- J = Indicates that the concentration is an estimated value.
- B = The reported value was obtained from a reading less than the contract required detection limit but greater than or equal to the instrument detection limit.

Table 11

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-15S					MW-16D					MW-16R					MW-17D				
		1997	1999	2000	2001	2002	1997	1999	2000	2001	2002	1997	1999	2000	2001	2002	1997	1999	2000	2001	2002
Volatile Organic Compounds (VOCs)																					
1,1,1-Trichloroethane	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 G	57	ND	ND	ND	NA	51	ND	ND	ND	ND	150	ND	ND	ND	ND	ND	ND	ND	ND	55 J
Benzene	1	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	840	720	780 JD	15	10 J	1,000	520	530 JD	94	150 J
Bromodichloromethane	50 G	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	230	270	240 JD	5	3 J	19 J	8.0 J	4.0 J	2.8 J	12 J
Methyl tert-butyl ether	10 G	ND	ND	ND	ND	NA	ND	ND	18 J	ND	12 J	ND	ND	ND	ND	ND	ND	ND	9.0 J	ND	16 J
Methylene chloride	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	200	130	74 J	2.4 J	1 J	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	ND	ND	ND	ND	NA	ND	ND	ND	1.0 J	ND	230	250	180 J	4.4 J	1 J	36 J	9.0 J	7.0 J	5.2 J	11 J

Table 11

Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-17S					MW-18S					MW-19D				
		1997	1999	2000	2001	2002	1997	1999	2000	2001	2002	1997	1999	2000	2001	2002
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	ND	ND	ND / 83 J	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	850	530	48 J	3.7 J	31 J	180	810	490 D	130	360 J	ND	ND	ND	ND	ND
Bromodichloromethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	4.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	21 J	17 J	ND	ND	ND	160	1,100	520 D	31	490 J	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10 G	ND	ND	1.0 J	ND	ND	ND	ND	4.0 J	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	5	20 J	8.0 J	ND	6 J	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	ND	ND	ND	ND	ND	43	240	98 J	6.5 J	70 J	ND	ND	ND	ND	ND

Table 11

Niagara Mohawk, a National Grid Company
North Albany Service Center
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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-21D					MW-21R					MW-21S	
		1997	1999	2000	2001	2002	1997	1999	2000	2001	2002	1997	1999
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 G	ND	ND	ND	ND	ND	ND	ND	7.0 J	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND
cis-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10 G	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 11

Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-22D					MW-22R					MW-22S				
		1997	1999	2000	2001	2002	1997	1999	2000	2001	2002	1997	1999	2000	2001	2002
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 G	ND	ND	11 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 11

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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-23S 1999	MW-23S 2000	MW-23S 2001	MW-24S 1999	MW-24S 2000	MW-24S 2001	MW-24S 2002	MW-25S 1999	MW-25S 2000	MW-25S 2001	MW-25S 2002
Volatile Organic Compounds (VOCs)												
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Total Dichloroethene	5 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.3 J	9.3 J
Benzene	1	620 D	200 D	140 J	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J
cis-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	6	2.0 J	1.7 J	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10 G	ND	1.0 J	ND	ND	7.0 J	ND	4 J	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	2.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4 e	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5 d	4.0 J	2.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Constituent	NYSDEC GW Criteria	MW-15S 1997	MW-15S 1999	MW-15S 2000	MW-15S 2001	MW-15S 2002	MW-16D 1997	MW-16D 1999	MW-16D 2000	MW-16D 2001	MW-16D 2002	MW-16R 1997	MW-16R 1999	MW-16R 2000	MW-16R 2001	MW-16R 2002	MW-17D 1997	MW-17D 1999	MW-17D 2000	MW-17D 2001	MW-17D 2002
Semi-Volatile Organic Compounds (SVOCs)																					
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60 J	200D	20 J	100	140 DJ	19 J	80	62	41	83 D
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-17S 1997	MW-17S 1999	MW-17S 2000	MW-17S 2001	MW-17S 2002	MW-18S 1997	MW-18S 1999	MW-18S 2000	MW-18S 2001	MW-18S 2002	MW-19D 1997	MW-19D 1999	MW-19D 2000	MW-19D 2001	MW-19D 2002
Semi-Volatile Organic Compounds (SVOCs)																
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	0.8 J	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	2 J	ND	ND	14	20 J	14 J	140 J	2.0 J	64	28 J	ND	ND	ND	ND	ND
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Constituent	NYSDEC GW Criteria	MW-21D 1997	MW-21D 1999	MW-21D 2000	MW-21D 2001	MW-21D 2002	MW-21R 1997	MW-21R 1999	MW-21R 2000	MW-21R 2001	MW-21R 2002	MW-21S 1997	MW-21S 1999
Semi-Volatile Organic Compounds (SVOCs)													
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-22D 1997	MW-22D 1999	MW-22D 2000	MW-22D 2001	MW-22D 2002	MW-22R 1997	MW-22R 1999	MW-22R 2000	MW-22R 2001	MW-22R 2002	MW-22S 1997	MW-22S 1999	MW-22S 2000	MW-22S 2001	MW-22S 2002
Semi-Volatile Organic Compounds (SVOCs)																
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Constituent	NYSDEC GW Criteria	MW-23S	MW-23S	MW-23S	MW-24S	MW-24S	MW-24S	MW-24S	MW-25S	MW-25S	MW-25S	MW-25S
		1999	2000	2001	1999	2000	2001	2002	1999	2000	2001	2002
Semi-Volatile Organic Compounds (SVOCs)												
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(dichloropropane)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	ND	ND	57	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-15S 1997	MW-15S 1999	MW-15S 2000	MW-15S 2001	MW-15S 2002	MW-16D 1997	MW-16D 1999	MW-16D 2000	MW-16D 2001	MW-16D 2002	MW-16R 1997	MW-16R 1999	MW-16R 2000	MW-16R 2001	MW-16R 2002	MW-17D 1997	MW-17D 1999	MW-17D 2000	MW-17D 2001	MW-17D 2002
Semi-Volatile Organic Compounds (SVOCs)																					
Acenaphthene	20 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53	78	54	58	53 J	40 J	80	40	24	38 J
Acenaphthylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	4.0 J	3.0 J	2 J	2 J	ND	ND	ND	ND	ND
Acetophenone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0 J	1.0 J	2 J	1 J	ND	ND	ND	ND
Benzo(a)anthracene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND	ND	ND	ND	ND	0.4 J
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	3.0 J	ND	4 J	ND	ND	1.0 J	ND	2 J
Chrysene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	0.7 J
Dibenzofuran	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8 J
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND	ND	ND
Fluorene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	21	13	19	16 J	4 J	7.0 J	4.0 J	3 J	6 J
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,300 DJ	1,700 D	27	800 D	950 D	9 J	5.0 J	2.0 J	0.8 J	2 J
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	19	4.0 J	14	9 J	2 J	2.0 J	ND	0.6 J	1 J
Phenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0 J	ND	ND	ND	ND	21	ND	ND	1 J
Pyrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	0.4 J	ND	ND	ND	ND	ND

Table 11

Niagara Mohawk, a National Grid Company
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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-17S 1997	MW-17S 1999	MW-17S 2000	MW-17S 2001	MW-17S 2002	MW-18S 1997	MW-18S 1999	MW-18S 2000	MW-18S 2001	MW-18S 2002	MW-19D 1997	MW-19D 1999	MW-19D 2000	MW-19D 2001	MW-19D 2002
Semi-Volatile Organic Compounds (SVOCs) (cont'd)																
Acenaphthene	20 G	110	130	ND	6 J	11 J	14 J	210 J	4.0 J	66	41 J	ND	ND	ND	ND	ND
Acenaphthylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	1 J	0.5 J	ND	ND	ND	ND	ND
Acetophenone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND
Anthracene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	1.0 J	ND	0.5 J	ND	ND	ND	ND	ND	ND	4.0 J	2.0 J	ND	ND
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NA	2 J	ND	ND	ND	0.4 J	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND
Chrysene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NA	ND	ND	ND	ND	ND	ND	ND	ND	0.9 J	0.5 J	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50 G	11	12	ND	ND	0.4 J	ND	27 J	ND	8 J	6 J	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	7 J	7.0 J	ND	0.8 J	1 J	730 DJ	4,900 D	530 D	3500 D	850 DJ	ND	ND	ND	ND	1 J
Nitrobenzene	0.4	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	6 J	4.0 J	ND	ND	ND	ND	ND	ND	3 J	6 J	ND	ND	ND	ND	ND
Phenol	1 a	ND	7.0 J	ND	ND	2 J	ND	ND	10	ND	ND	ND	ND	ND	ND	ND
Pyrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 11

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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21R	MW-21R	MW-21R	MW-21R	MW-21R	MW-21S	MW-21S
		1997	1999	2000	2001	2002	1997	1999	2000	2001	2002	1997	1999
Semi-Volatile Organic Compounds (SVOCs) (cont'd)													
Acenaphthene	20 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-22D 1997	MW-22D 1999	MW-22D 2000	MW-22D 2001	MW-22D 2002	MW-22R 1997	MW-22R 1999	MW-22R 2000	MW-22R 2001	MW-22R 2002	MW-22S 1997	MW-22S 1999	MW-22S 2000	MW-22S 2001	MW-22S 2002
Semi-Volatile Organic Compounds (SVOCs) (cont'd)																
Acenaphthene	20 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0 J	ND	ND
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND	2 J
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	8 J	ND	ND	ND	ND	ND	ND
Pyrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-23S 1999	MW-23S 2000	MW-23S 2001	MW-24S 1999	MW-24S 2000	MW-24S 2001	MW-24S 2002	MW-25S 1999	MW-25S 2000	MW-25S 2001	MW-25S 2002
Semi-Volatile Organic Compounds (SVOCs) (cont'd)												
Acenaphthene	20 G	180 J	79	78	20	ND	18	ND	ND	ND	ND	ND
Acenaphthylene	NA	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	1.0 J	2.0 J	ND	3.0 J	ND	ND	ND	2.0 J	ND	ND	ND
Butyl benzyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NA	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	72	0.3 J	ND	ND	ND	ND
Di-n-octyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50 G	10	4.0 J	6 J	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10 G	9.0 J	3.0 J	4 J	ND	ND	ND	ND	ND	ND	ND	4 J
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1 a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50 G	4.0 J	2.0 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1 a	13	19	6 J	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-15S 1997	MW-15S 1999	MW-15S 2000	MW-15S 2001	MW-15S 2002	MW-16D 1997	MW-16D 1999	MW-16D 2000	MW-16D 2001	MW-16D 2002	MW-16R 1997	MW-16R 1999	MW-16R 2000	MW-16R 2001	MW-16R 2002	MW-17D 1997	MW-17D 1999	MW-17D 2000	MW-17D 2001	MW-17D 2002
Inorganics																					
Aluminum	NA	ND	428	ND	ND	ND	404	224	125 B	ND	98.2 B	9,050	11,900	2,530	368	441	9,720	821	886	246	328
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4 U	ND	ND	ND	ND	5.4 U	ND	ND	ND	ND	5.4 U
Arsenic	25	ND	ND	ND	ND	ND	6 B	6.2 B	8.4 B	8	7.7 B	ND	ND	ND	ND	4 U	12	5.3 B	ND	ND	4 U
Barium	1,000	156 B	254	187 B	293	194 B	1,110	1,010	860	1,030	738	1,700	1,790	1,480	1,450	1,360	5,830	5,530	5,150	4,850	4,310
Beryllium	3 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.2 U
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 U	ND	ND	ND	ND	0.58 U	1.5 B	ND	ND	ND	0.3 U
Calcium	NA	70,500	105,000	82,800	121,000	76,900 J	20,900	193,000	161,000	211,000	142,000 J	7,250	10,300	5,880	6,360	8,330 J	267,000	237,000	223,000	207,000	188,000 J
Chromium	50	ND	2.8 B	ND	ND	0.96 B	9.7 B	ND	ND	ND	1.4 B	34	34	3.7 B	ND	1.1 B	29	2.8 B	ND	ND	1.7 B
Cobalt	NA	ND	1.2 B	ND	ND	ND	2.5 B	4.9 B	ND	ND	0.5 U	10.1 B	11.1 B	2.5 B	ND	0.72 B	18.6 B	5.6 B	2.6 B	ND	1.5 B
Copper	200	ND	3.0 B	ND	ND	1.3 B	ND	4.0 B	3.4 B	ND	1.2 B	8.1 B	16.6 B	9.0 B	ND	3.9 B	22.4 B	ND	4.2 B	ND	3.2 B
Cyanide	200 L	47	ND	23	18	12.7 J	401	118	151	68 J	11.4 J	487	254	172	94 J	10 U	643	332	450	310	185 J
Iron	300 h	2,770	5,590	3,420	4,750	3,700 J	24,500	19,500	19,800	25,400	17,500 J	12,100	22,000	4,910	633	788 J	54,200	27,900	15,500	8,460	7,590 J
Lead	25	ND	ND	2.2 B	ND	ND	ND	ND	2.3 B	ND	2.3 U	3	9	16	ND	2.8 B	9	ND	ND	ND	2.3 U
Magnesium	35,000 G	7,020	11,100	8,160	12,800	8,230 J	29,400	27,600	21,700	30,300	20,300 J	4,460 B	7,330	1,850 B	736	915 BJ	67,800	59,400	50,800	48,900	43,800 J
Manganese	300 h	804	913	700	1,010	683 J	3,160	3,080	2,400	3,250	2,150 J	165	345	76	27	37.6 J	7,660	4,890	2,710	1,740	1,740 J
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.065 U	ND	ND	ND	ND	0.065 U	ND	ND	ND	ND	0.065 U
Nickel	100	ND	ND	ND	ND	ND	3.8 B	ND	ND	ND	1 U	24.7 B	30.1 B	3.6 B	ND	1 U	23.6 B	ND	ND	ND	1.4 B
Potassium	NA	4,140 B	5,410	4,670 B	6,690	5,380 J	7,540	8,060	7,250	10,000	5,480 BJ	7,900	7,820	5,680	6,350	5,130 BJ	12,700	9,730	8,450	9,550	3,350 BJ
Selenium	10	ND	ND	ND	ND	ND	4.4 B	ND	ND	ND	4 U	3.6 B	ND	ND	ND	4 U	5 B	ND	ND	ND	4 U
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 U	ND	ND	ND	ND	0.5 U	ND	ND	ND	ND	0.5 U
Sodium	20,000	93,700	75,300	62,000	110,000	85,200 J	291,000	240,000	264,000	275,000	204,000 J	345,000	354,000	369,000	353,000	324,000 J	243,000	277,000	313,000	301,000 J	161,000 J
Thallium	0.5 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9 U	ND	ND	ND	ND	3.9 U	ND	ND	ND	ND	3.9 U
Vanadium	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7 U	14.9 B	19.4 B	4.7 B	ND	0.7 U	14.8 B	ND	ND	ND	0.7 U
Zinc	2,000 G	ND	4.4 B	ND	ND	4.2 B	ND	5.3 B	2.6 B	ND	4.1 U	18.2 B	59	17.3 B	57	31.2	24	ND	3.6 B	ND	5.4 B

Table 11

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-17S 1997	MW-17S 1999	MW-17S 2000	MW-17S 2001	MW-17S 2002	MW-18S 1997	MW-18S 1999	MW-18S 2000	MW-18S 2001	MW-18S 2002	MW-19D 1997	MW-19D 1999	MW-19D 2000	MW-19D 2001	MW-19D 2002
Inorganics																
Aluminum	NA	477	485	ND	ND	32.5 U	10,800	524	ND	ND	32.5 U	ND	424	ND	ND	32.5 U
Antimony	3	ND	ND	ND	ND	5.4 U	ND	ND	ND	ND	5.4 U	ND	ND	ND	ND	5.4 U
Arsenic	25	10	12	ND	ND	8.6 B	7.9 B	ND	ND	ND	4 U	4.3 B	ND	ND	ND	4 U
Barium	1,000	2,210	1,560	73.4 B	179	264	727	1,090	294	493	351	103 B	83.1 B	54.7 B	55	59.2 B
Beryllium	3 G	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.2 U
Cadmium	5	1.8 B	ND	ND	ND	0.3 U	1.7 B	ND	ND	ND	0.3 U	ND	2.1 B	ND	ND	0.3 U
Calcium	NA	199,000	194,000	93,600	137,000	174,000 J	133,000	175,000	123,000	141,000	109,000 J	168,000	147,000	116,000	117,000	127,000 J
Chromium	50	4.1 B	ND	ND	ND	1.8 B	17	2.4 B	ND	ND	1.4 B	ND	ND	ND	ND	1.4 U
Cobalt	NA	4.6 B	2.4 B	ND	ND	1.2 B	16.3 B	6.1 B	ND	ND	0.5 U	13 B	10.7 B	5.7 B	ND	4.9 B
Copper	200	ND	ND	3.9 B	ND	1.9 B	20.8 B	ND	ND	ND	3.4 B	ND	2.8 B	3.8 B	ND	6.8 B
Cyanide	200 L	447	161	36	58	75.7 J	135	194	105	120	45.1 J	125	66.8	92.6	70	21.8 J
Iron	300 h	62,500	57,200	21,000	12,000	39,500 J	57,100	20,200	34,900	41,500	42,900 J	5,110	5,430	1,670	1,780	1,860 J
Lead	25	ND	ND	ND	ND	5	10	ND	ND	ND	3	ND	ND	3.2	ND	5.9
Magnesium	35,000 G	46,100	44,700	15,600	26,400	35,100 J	24,000	28,300	20,600	23,500	19,300 J	33,000	30,200	22,300	23,700	26,600 J
Manganese	300 h	9,420	7,670	1,220	6,730	5,600 J	9,690	11,000	6,500	7,530	5,770 J	10,100	9,430	7,290	7,650	8,700 J
Mercury	0.7	ND	ND	ND	ND	0.065 U	ND	ND	ND	ND	0.065 U	ND	ND	ND	ND	0.065 U
Nickel	100	ND	ND	ND	ND	1.3 B	18.2 B	7.4 B	ND	ND	1 U	3 B	ND	ND	ND	1.2 B
Potassium	NA	6,820	6,710	1,430	2,800	2,850 BJ	5,550	8,380	2,620	5,700	3,950 BJ	18,500	18,800	16,400	19,000	16,400 BJ
Selenium	10	ND	ND	ND	ND	4.2 B	7	ND	8.8 JN	ND	4 U	8	ND	4.8 JBN	ND	4 U
Silver	50	ND	ND	ND	ND	0.5 U	ND	ND	ND	ND	0.5 U	ND	ND	ND	ND	0.5 U
Sodium	20,000	164,000	172,000	38,000	111,000 J	141,000 J	74,400	181,000	91,300 EJ	160,000 J	88,900 J	126,000	126,000	116,000	122,000 J	117,000 J
Thallium	0.5 G	ND	6.2 B	ND	ND	3.9 U	ND	ND	ND	ND	3.9 U	ND	6.5 B	ND	ND	3.9 U
Vanadium	NA	ND	ND	ND	ND	0.96 B	17.2 B	ND	ND	ND	0.7 U	ND	ND	ND	ND	0.7 U
Zinc	2,000 G	ND	ND	ND	ND	4.1 U	35	ND	ND	ND	4.1 U	ND	9.5 B	2.8 B	ND	4.1 U

Table 11

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-21D 1997	MW-21D 1999	MW-21D 2000	MW-21D 2001	MW-21D 2002	MW-21R 1997	MW-21R 1999	MW-21R 2000	MW-21R 2001	MW-21R 2002	MW-21S 1997	MW-21S 1999
Inorganics													
Aluminum	NA	612	368	ND	ND	32.5 U	1,480	9,380	464	ND	53.4 B	830	ND
Antimony	3	ND	9.6 B	ND	ND	5.4 U	ND	8.2 B	ND	ND	4 U	ND	6.3 B
Arsenic	25	4.8 B	ND	ND	ND	4 U	5 B	4.6 B	ND	ND	3 U	ND	ND
Barium	1,000	1,240	1,210	1,210	1,130	1,100	450	1,930	948	601	532	147 B	168 B
Beryllium	3 G	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.8 U	ND	ND
Cadmium	5	ND	ND	ND	ND	0.3 U	ND	ND	ND	ND	0.9 U	ND	ND
Calcium	NA	250,000	272,000	258,000	235,000	240,000	2,260 B	17,400	4360 B	2,500	1,650 B	184,000	233,000
Chromium	50	5.3 B	ND	ND	ND	1.3 B	9.6 B	26	ND	ND	1 U	3.6 B	ND
Cobalt	NA	ND	1.3 B	ND	ND	1.2 U	ND	9.0 B	ND	ND	1 U	ND	2.8 B
Copper	200	ND	ND	ND	ND	0.7 B	ND	10.6 B	ND	ND	1 U	ND	ND
Cyanide	200 L	110	108	113	59	95.4 J	80	77	83	48	66.5 J	19	20
Iron	300 h	22,400	23,800	22,400	21,200	20,700	1,890	16,300	1,040	187	146	8,200	1,680
Lead	25	2.2 B	ND	2.6 B	ND	3	ND	6	ND	ND	2 U	ND	ND
Magnesium	35,000 G	52,100	55,200	54,100	53,000 J	54,200	880 B	8,410	970 B	362 J	213 B	31,200	40,700
Manganese	300 h	5,160	5,350	5,090	4,850	4,830 J	35	297	32	17	13.1 B	5,230	5,520
Mercury	0.7	ND	ND	ND	ND	0.035 U	ND	ND	ND	ND	0.035 U	ND	ND
Nickel	100	3.7 B	ND	ND	ND	1 U	ND	21.6 B	ND	ND	1 U	3.6 B	ND
Potassium	NA	8,520	8,980	8,790	10,400	7,730 B	3,330 B	6,300	3570 B	3,770	3,070 B	5,680	8,100
Selenium	10	7	3.9 B	6.8 JN	ND	4 U	3.2 B	ND	ND	ND	5 U	4.1 B	ND
Silver	50	ND	ND	ND	ND	0.54 B	ND	ND	ND	ND	1 U	ND	ND
Sodium	20,000	228,000	215,000	260,000	257,000	248,000	210,000	223,000	234,000	233,000	231,000	11,600	40,600
Thallium	0.5 G	ND	6.1 B	ND	22	3.9 U	ND	ND	ND	ND	7 U	ND	ND
Vanadium	NA	ND	ND	ND	ND	0.73 U	3.4 B	14.6 B	ND	ND	1 U	ND	ND
Zinc	2,000 G	ND	3.1 B	ND	ND	8 B	ND	32	3.8 B	ND	2.2 B	ND	ND

Table 11

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-22D 1997	MW-22D 1999	MW-22D 2000	MW-22D 2001	MW-22D 2002	MW-22R 1997	MW-22R 1999	MW-22R 2000	MW-22R 2001	MW-22R 2002	MW-22S 1997	MW-22S 1999	MW-22S 2000	MW-22S 2001	MW-22S 2002
Inorganics																
Aluminum	NA	6,080	189 B	139 B	352	54 B	973	328	343	ND	174 B	78	953	ND	ND	32.5 U
Antimony	3	ND	8.4 B	ND	ND	5.4 U	ND	7.1 B	ND	ND	4 U	ND	ND	5.6 B	ND	5.4 U
Arsenic	25	6 B	ND	ND	ND	4 U	ND	ND	ND	ND	3 U	ND	14	ND	ND	4 U
Barium	1,000	3,700	4,830	7,860	5,200	5,000	8,430	7,700	4,950	8,460	255	67.1 B	164 B	100 B	109	88.2 B
Beryllium	3 G	ND	ND	ND	ND	0.2 U	ND	ND	ND	ND	0.8 U	ND	ND	ND	ND	0.2 U
Cadmium	5	ND	ND	ND	ND	0.3 U	ND	ND	ND	ND	1.2 B	1.4 B	2.5 B	ND	ND	0.35 B
Calcium	NA	184,000	199,000	83,100	192,000 J	191,000	117,000	116,000	191,000	102,000 J	39,000	237,000	217,000	201,000	192,000	211,000
Chromium	50	15	ND	ND	ND	1.4 B	5.7 B	ND	ND	ND	1 U	4 B	38	ND	ND	0.6 U
Cobalt	NA	4.3 B	1.5 B	ND	ND	0.5 U	ND	3.1 B	ND	ND	1 U	ND	18 B	4.1 B	ND	0.5 U
Copper	200	21.5 B	ND	ND	ND	1.2 B	ND	ND	ND	ND	5.9 B	12 B	24 B	6.7 B	ND	3.6 B
Cyanide	200 L	16	ND	ND	ND	10 U	13	ND	12	ND	10 U	17	ND	ND	ND	10 U
Iron	300 h	18,500	3,940	117	2,290	965	1,240	363	1,050	807	201	ND	36,500	88.9 B	181	13.9 U
Lead	25	10	ND	ND	ND	2.3 U	ND	3	ND	ND	2 U	ND	48	ND	ND	2.3 U
Magnesium	35,000 G	48,800	51,300	21,600	53,900	54,800	31,500	30,400	51,200	26,700	1,810 B	33,000	32,600	28,500	28,900 J	24,300
Manganese	300 h	3,780	3,250	837	3,260	3,260 J	1,710	1,500	3,080	1,280 J	11.5 B	27	962	880	797	18.2
Mercury	0.7	ND	ND	ND	ND	0.035 U	ND	ND	ND	ND	0.035 U	ND	0.19 B	ND	ND	0.035 U
Nickel	100	12.4 B	ND	ND	ND	1 U	ND	ND	ND	ND	1 U	8.9 B	45	5.2 B	ND	2.5 U
Potassium	NA	6,180	3,550 B	14,600	3,860	3,930 B	9,400	9,610	3,650 B	10,100	13,600	5,390	10,500 J	9,390	10,100	9,120
Selenium	10	10	ND	ND	ND	4 U	ND	ND	ND	ND	5 U	ND	R	ND	ND	4 U
Silver	50	ND	ND	ND	ND	0.5 U	ND	ND	ND	ND	1 U	ND	ND	ND	ND	0.5 U
Sodium	20,000	42,700	34,300	171,000	41,500	36,900	133,000	130,000	52,000 EJ	142,000	46,100	26,200	19,800	26,200	20,900	9,680
Thallium	0.5 G	ND	ND	ND	ND	3.9 U	ND	ND	ND	ND	7 U	ND	ND	ND	ND	3.9 U
Vanadium	NA	10.6 B	ND	ND	ND	0.79 B	ND	ND	ND	ND	1.9 U	ND	7.2 B	ND	ND	0.7 U
Zinc	2,000 G	30	3.6 B	2.0 B	ND	5.2 U	ND	ND	2.1 B	ND	8.5 B	197	90	99	76	44.4

Table 11

Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York

Summary of Historical Groundwater Analytical Results for Offsite Monitoring Wells

Constituent	NYSDEC GW Criteria	MW-23S 1999	MW-23S 2000	MW-23S 2001	MW-24S 1999	MW-24S 2000	MW-24S 2001	MW-24S 2002	MW-25S 1999	MW-25S 2000	MW-25S 2001	MW-25S 2002
Inorganics												
Aluminum	NA	1,760	1,700	442	565	372	ND	276	343	248	ND	128 B
Antimony	3	ND	ND	ND	ND	ND	ND	5.4 U	ND	ND	ND	5.4 U
Arsenic	25	10	21	15	9.0 B	12	ND	4.1 B	ND	5.1 B	ND	4 U
Barium	1,000	3,250	2,910	2,890	1,540	1,400	2,280	1,770	416	545	458	193 B
Beryllium	3 G	ND	ND	ND	ND	ND	ND	0.2 U	ND	ND	ND	0.2 U
Cadmium	5	1.1 B	ND	ND	ND	ND	ND	0.3 U	2.4 B	ND	1	0.3 U
Calcium	NA	198,000	188,000	167,000 J	217,000	209,000	220,000	209,000	171,000	161,000	136,000	62,300
Chromium	50	3.4 B	ND	ND	ND	ND	ND	1.8 B	ND	ND	ND	1.1 B
Cobalt	NA	6.0 B	2.6 B	ND	4.3 B	ND	ND	0.98 B	1.4 B	ND	ND	0.5 U
Copper	200	8.9 B	ND	ND	ND	ND	ND	1.8 B	ND	ND	ND	2.4 B
Cyanide	200 L	263	166	120	131	145	55	69.6 J	ND	25	ND	44.1 J
Iron	300 h	50,300	46,700	43,600 J	15,300	14,100	13,200	14,000	8,290	10,200	5,060	226
Lead	25	2.9 B	5	ND	ND	ND	ND	4.2	2.5 B	2.2 B	ND	2.3 U
Magnesium	35,000 G	41,600	38,700	34,400	42,800	39,500	44,000	43,100	36,900	28,800	30,100	7,160
Manganese	300 h	10,200	8,370	7,580 J	5,020	4,430	5,390	5,190 J	3,920	3,540	3,050	535 J
Mercury	0.7	ND	ND	ND	ND	ND	ND	0.035 U	ND	ND	ND	0.042 B
Nickel	100	ND	3.0 B	ND	ND	ND	ND	1 U	ND	ND	ND	1 B
Potassium	NA	18,100	17,800	18,100	9,760	9,270	12,400	9,440 B	8,560	6,240	8,650	1,820 B
Selenium	10	ND	ND	ND	ND	6.5 JN	ND	4 U	ND	5.2 JN	ND	4.6 B
Silver	50	ND	ND	ND	ND	ND	ND	0.5 U	ND	ND	ND	0.5 U
Sodium	20,000	271,000	249,000 EJ	261,000	281,000	230,000 EJ	318,000	254,000	211,000	157,000 E	182,000	298,000
Thallium	0.5 G	ND	6.3 B	ND	ND	ND	ND	3.9 U	ND	6.0 EJ	ND	3.9 U
Vanadium	NA	2.9 B	2.8 B	ND	ND	ND	ND	1.5 B	ND	ND	ND	1.5 U
Zinc	2,000 G	11 B	6.8 B	ND	ND	ND	ND	6 U	ND	5.0 B	ND	17.7 B

Notes:

- All samples collected by Blasland, Bouck, & Lee, Inc.
- L = Applies to total cyanide.
- h = Iron and manganese criteria is for 300 ug/L individually, or 500 ug/L as a sum.
- a = Value listed applies to the sum of these substances.
- c = Value listed applies to both the cis and trans isomers separately.
- d = Value listed applies to each isomer individually.
- e = Value listed applies to the sum of the isomers.
- G = Guidance Value.
- NA = No GA standard or guidance value for groundwater is available for these substances.
- Concentrations reported in micrograms per liter (ug/L) equivalent to parts per billion (ppb).
- New York State Department of Environmental Conservation (NYSDEC) Class GA Standards from NYSDEC document entitled, "Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, reissued June 1998 and addended April 2000).
- Samples were analyzed for VOCs using USEPA SW-846 Method 8260; SVOCs using USEPA SW-846 Method 8270; inorganic constituents using USEPA SW-846 Method 6010 (with the exception of cyanide); cyanide using USEPA SW-846 Method 9010.
- Laboratory analysis for 1997, 1999, and 2000 was conducted by Galson Laboratories, Inc. (Galson) located in Syracuse, New York. Laboratory analysis for 2001 and 2002 was conducted by Severn Trent Laboratories, Inc. (STL) located in Amherst, New York.
- MW = Monitoring Well.
- ND = Indicates that the constituent was not detected.
- D = Indicates that the concentration is based on a diluted sample analyses.
- E = Identifies the compound whose concentrations exceed the calibration range of the equipment.
- J = Indicates that the concentration is an estimated value.
- B = The reported value was obtained from a reading less than the contract required detection limit but greater than or equal to the instrument detection limit

Table 12

**Niagara Mohawk, a National Grid Company
North Albany Service Center
Albany, New York**

Summary of Monitoring Wells for Proposed Groundwater Sampling and NAPL Monitoring/Recovery Activities

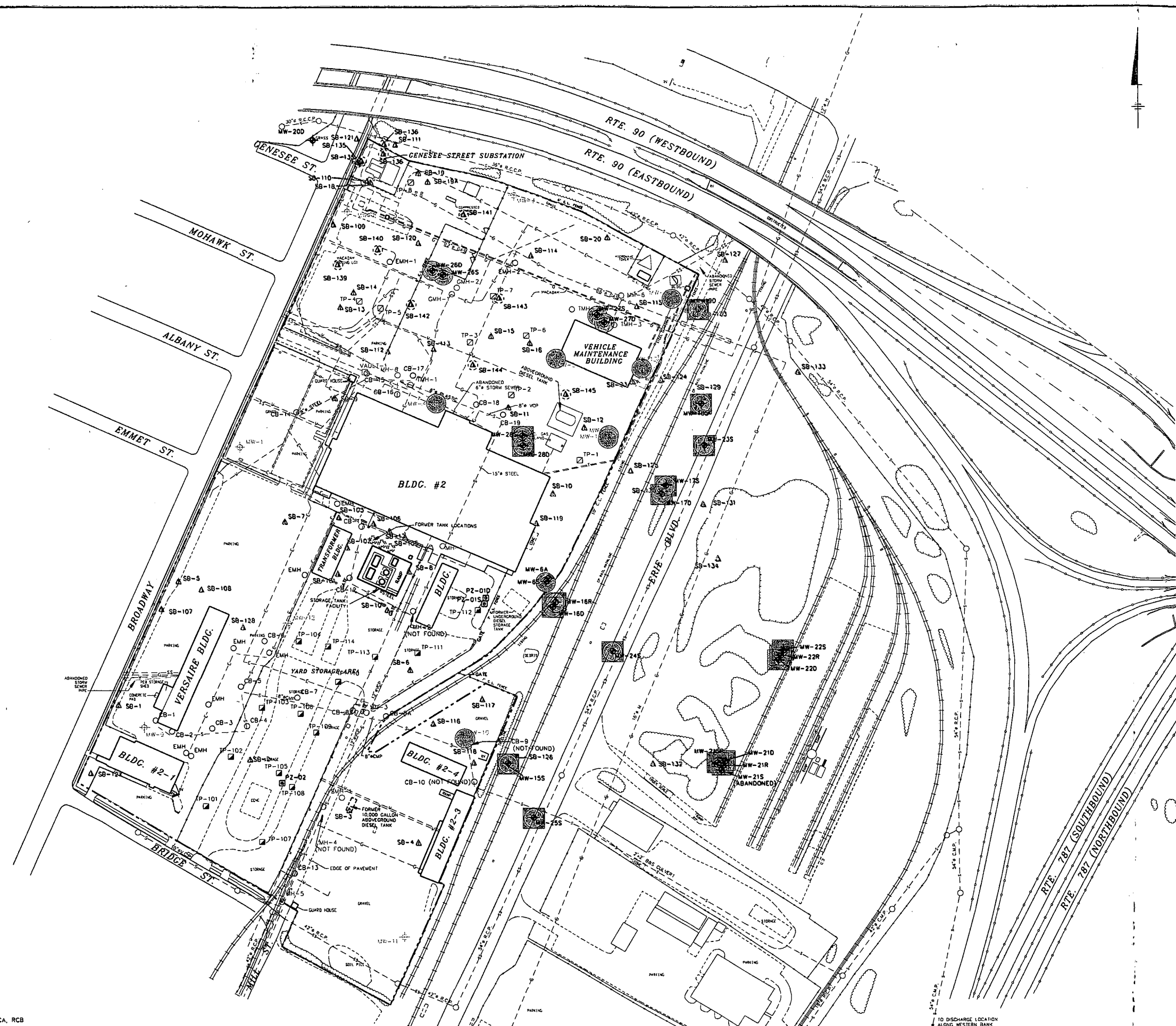
Proposed Groundwater Sampling Locations
Onsite Monitoring Wells
MW-27S
MW-27D
MW-28S
MW-28D
Offsite Monitoring Wells
MW-15S
MW-16R
MW-16D
MW-17S
MW-17D
MW-18S
MW-19D
MW-21Sr
MW-21R
MW-21D
MW-22S
MW-22R
MW-22D
MW-23S
MW-24S
MW-25S

Proposed NAPL Monitoring/Recovery Locations	
LNAPL Monitoring/Recovery	DNAPL Monitoring/Recovery
Onsite Monitoring Wells	
MW-4	MW-5
MW-8	MW-6A
MW-10	MW-6S
MW-13	MW-7
MW-26S	MW-13
MW-27S	MW-14
MW-28S	MW-26D
	MW-27D
	MW-28D
Offsite Monitoring Wells	
MW-15S	MW-16D
MW-17S	MW-16R
MW-18S	MW-17D
MW-23S	MW-19D
MW-24S	
MW-25S	

Notes:

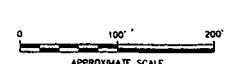
1. Groundwater samples to be submitted for laboratory analysis for BTEX compounds, polynuclear aromatic hydrocarbons (PAHs), and the 8 Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) plus cyanide. In addition, the groundwater sample collected from MW-27S will continue to be analyzed for PCBs.
2. Annual groundwater monitoring activities will be conducted once every five quarters starting in Spring 2004. Monitoring activities will be conducted in accordance with the Quality Assurance Project Plan (QAPP), which was included as an appendix to the New York State Department of Environmental Conservation (NYSDEC)-approved Monitoring and Investigation and Remedial Measures Evaluation Work Plan (BBL, August 1996).
3. NAPL Monitoring and Recovery activities will be conducted on a quarterly basis in accordance with Niagara Mohawk's April 10, 2000 letter to the NYSDEC.

Figures



- LEGEND:**
- | | |
|--|-----------------------|
| — FENCE | — S — STORM SEWER |
| — EXISTING RAILROAD | — SS — SANITARY SEWER |
| --- APPROXIMATE PROPERTY LINE | — T — TELEPHONE LINE |
| SB-141 PRE-DESIGN INVESTIGATION SOIL BORING LOCATION | — C — ELECTRICAL LINE |
| MW-285 ADDITIONAL GROUNDWATER INVESTIGATION GROUNDWATER MONITORING WELL LOCATION | — G — GAS LINE |
| MW-155 MGP/RCRA GROUNDWATER MONITORING WELL LOCATION | — W — WATER LINE |
| PZ-015 MGP/RCRA PIEZOMETER | — C — CABLE LINE |
| SB-126 MGP/RCRA SOIL BORING LOCATION | — GR — GUARD RAIL |
| TP-105 MGP/RCRA TEST PIT LOCATION | |
| PSA/IRM GROUNDWATER MONITORING WELL LOCATION | |
| SB-4 PSA/IRM SOIL BORING LOCATION | |
| TP-3 PSA/IRM TEST PIT LOCATION | |
| CB-2 EXISTING CATCH BASIN | |
| MH-1 EXISTING STORM SEWER MANHOLE | |
| EMH-1 EXISTING ELECTRICAL MANHOLE | |
| TMH-1 EXISTING TELEPHONE MANHOLE | |
| GMH-1 EXISTING UTILITY MANHOLE | |
| SB-235 PROPOSED GROUNDWATER SAMPLING LOCATION | |
| MW-10 PROPOSED NAPL MONITORING/RECOVERY LOCATION | |

- NOTES:**
1. BASE MAP (INCLUDING BUILDING LOCATIONS AND PSA/IRM SAMPLE LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29738-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
 2. LOCATIONS OF UNDERGROUND UTILITIES (INCLUDING ON-SITE STORM SEWERS, SANITARY SEWERS, TELEPHONE LINES, ELECTRICAL LINES, GAS LINES, WATER LINES, AND CABLE) WERE DIGITIZED FROM NMPC DRAWING NO. D-29734-E, FILE INDEX NO. 20.3-A1.1-B2, DATED JUNE 27, 1994, ENTITLED NORTH ALBANY SERVICE CENTER SITE PLAN - PAVING (OUTSIDE FENCE).
 3. MGP/RCRA INVESTIGATION SAMPLING LOCATIONS AND LOCATIONS OF MANHOLES AND CATCH BASINS WERE OBTAINED FROM A SURVEY CONDUCTED BY NMPC DURING JULY/AUGUST 1997 WITH THE FOLLOWING EXCEPTIONS: SB-116 AND SB-117, WHICH ARE APPROXIMATE LOCATIONS.
 4. LOCATIONS OF PRE-DESIGN INVESTIGATION SOIL BORINGS AND ADDITIONAL GROUNDWATER INVESTIGATION MONITORING WELLS WERE OBTAINED FROM A SURVEY CONDUCTED BY NMPC DURING NOVEMBER 2000.
 5. LOCATIONS OF OFF-SITE STORM SEWER AND SANITARY SEWERS WERE DIGITIZED FROM CITY OF ALBANY DRAWINGS AND ARE APPROXIMATE.



NIAGARA MOHAWK, A NATIONAL GRID COMPANY
NORTH ALBANY SERVICE CENTER
ANNUAL GROUNDWATER MONITORING

**PROPOSED GROUNDWATER SAMPLING
AND NAPL MONITORING/RECOVERY
LOCATIONS**

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
4

X: 36608X01.DWG
L: ON=*, OFF=REF
P: PAGESET/PLT-DL28
11/26/03 SYR-S4-LJP, RCA, RCB
36648006/36648001.DWG

MW-285	
Constituents	Total (DUP)
Aluminum	127 B
Antimony	ND
Arsenic	8.7 B
Barium	52.2 B
Calcium	180,000 J
Chromium	1.7 B
Cobalt	ND
Copper	2.1 B
Cyanide	ND
Iron	3,880 J
Magnesium	3,400 B
Manganese	11.3 J
Nickel	0.053 B
Potassium	7,070 B
Sodium	108,000 J
Vanadium	6 B
Zinc	6.5 B

MW-170	
Constituents	Total
Aluminum	328
Barium	4,310
Calcium	188,000 J
Chromium	1.7 B
Cobalt	1.5 B
Copper	3.2 B
Cyanide	185 J
Iron	7,590 J
Magnesium	43,800 J
Manganese	1,740 J
Nickel	1.4 B
Potassium	3,350 BJ
Sodium	330,000 J
Vanadium	0.94 B
Zinc	5.4 B

MW-14	
Constituents	Total
Arsenic	28.5
Barium	1,300
Calcium	199,000
Chromium	1.5 B
Cobalt	1.7 B
Copper	200 J
Cyanide	6,710
Iron	3.3
Magnesium	40,700
Manganese	6,720 J
Nickel	9,200 B
Potassium	330,000 J
Sodium	330,000 J
Vanadium	0.94 B
Zinc	5.4 B

MW-200	
Constituents	Total
Aluminum	127 B
Barium	229,000 J
Calcium	1.4 B
Chromium	1.4 B
Cobalt	1.4 B
Copper	2.7 B
Cyanide	1.4 B
Iron	1.4 B
Magnesium	58,900 J
Manganese	745 J
Nickel	4.3 B
Potassium	3,990 BJ
Sodium	410,000 J
Vanadium	6.4 B
Zinc	6.4 B

MW-265	
Constituents	Total
Aluminum	136 B
Barium	65 B
Calcium	52,600
Chromium	1.3 B
Cobalt	1.3 B
Copper	1.3 B
Cyanide	1.3 B
Iron	127
Magnesium	8,490
Manganese	3.4 B
Nickel	1.3 B
Potassium	2,100 B
Sodium	124,000 J
Vanadium	0.93 B
Zinc	19.5 B

MW-3	
Constituents	Total
Aluminum	338
Barium	1.8 J
Calcium	305,000 J
Chromium	1.1 B
Cobalt	1.1 B
Copper	2.5 B
Cyanide	9.4
Iron	102,000 J
Magnesium	11,600 J
Manganese	3.8 B
Nickel	1,270 BJ
Potassium	102,000 J
Sodium	102,000 J
Vanadium	7.8 B
Zinc	7.8 B

MW-275	
Constituents	Total
Aluminum	262
Barium	156,000
Calcium	5.1 B
Chromium	1.1 B
Cobalt	1.1 B
Copper	1.1 B
Cyanide	25.2 J
Iron	44,800
Magnesium	17,000
Manganese	309 J
Nickel	12,500 J
Potassium	14,600 B
Sodium	245,000 J
Vanadium	1.7 B
Zinc	13.8 B

MW-270	
Constituents	Total
Aluminum	12.5
Barium	584
Calcium	181,000
Chromium	1.8 B
Cobalt	1.8 B
Copper	1.8 B
Cyanide	25.2 J
Iron	44,800
Magnesium	17,000
Manganese	309 J
Nickel	12,500 J
Potassium	14,600 B
Sodium	245,000 J
Vanadium	1.7 B
Zinc	13.8 B

MW-190	
Constituents	Total
Aluminum	351
Barium	108,000 J
Calcium	1.4 B
Chromium	1.4 B
Cobalt	1.4 B
Copper	3.4 B
Cyanide	45.1 J
Iron	42,900 J
Magnesium	19,300 J
Manganese	5,770 J
Potassium	3,950 BJ
Sodium	88,900 J
Vanadium	1.7 B
Zinc	13.8 B

MW-165	
Constituents	Total
Aluminum	351
Barium	108,000 J
Calcium	1.4 B
Chromium	1.4 B
Cobalt	1.4 B
Copper	3.4 B
Cyanide	45.1 J
Iron	42,900 J
Magnesium	19,300 J
Manganese	5,770 J
Potassium	3,950 BJ
Sodium	88,900 J
Vanadium	1.7 B
Zinc	13.8 B

MW-235	
Constituents	Total
Aluminum	1,430
Barium	110,000 J
Calcium	1.8 B
Chromium	1.8 B
Cobalt	1.8 B
Copper	1.8 B
Cyanide	97.3
Iron	18,100 J
Magnesium	18,600 J
Manganese	4,020 J
Nickel	7,010 J
Potassium	0.52 B
Sodium	129,000 J
Vanadium	28.2
Zinc	28.2

MW-175	
Constituents	Total (DUP)
Arsenic	6.6 B
Barium	264
Calcium	174,000 J
Chromium	1.8 B
Cobalt	1.2 B
Copper	1.9 B
Cyanide	75.7 J
Iron	39,500 J
Magnesium	35,100 J
Manganese	5,800 J
Nickel	1.3 B
Potassium	2,850 BJ
Sodium	42.8 B
Vanadium	0.98 B
Zinc	ND

MW-225	
Constituents	Total
Aluminum	88.2 B
Barium	255
Calcium	1.2 B
Chromium	39,000
Cobalt	3.9 B
Copper	20
Cyanide	1.2 B
Iron	965
Magnesium	54,800
Manganese	1.15 B
Potassium	13,600
Sodium	46,100
Vanadium	8.5 B
Zinc	8.5 B

MW-220	
Constituents	Total
Aluminum	174.9 B
Barium	255
Calcium	5,000
Chromium	191,000
Cobalt	1.4 B
Copper	1.4 B
Cyanide	1.4 B
Iron	965
Magnesium	54,800
Manganese	3,260 J
Potassium	3,380 J
Sodium	36,900
Vanadium	0.29 B
Zinc	0.29 B

MW-210	
Constituents	Total
Aluminum	3,100
Barium	240,000
Calcium	1.3 B
Chromium	0.7 B
Cobalt	95.4 J
Copper	30,700
Cyanide	3
Iron	3
Magnesium	54,200
Manganese	4,830 J
Potassium	7,230 B
Sodium	0.54 B
Vanadium	248,000
Zinc	2.2 B

MW-215	
Constituents	Total
Aluminum	53.4 B
Barium	532
Calcium	1,680 B
Chromium	68.5 J
Cobalt	1.8 B
Copper	2.2 B
Cyanide	11.6 J
Iron	147
Magnesium	43,100
Manganese	5,190 J
Potassium	9,440 B
Sodium	254,000 J
Vanadium	1.5 B
Zinc	18.6 B

LEGEND:

FENCE

EXISTING RAILROAD

APPROXIMATE PROPERTY LINE

PRE-DESIGN INVESTIGATION SOIL BORING LOCATION

ADDITIONAL GROUNDWATER INVESTIGATION MONITORING WELL LOCATION

MGP/RCRA GROUNDWATER MONITORING WELL LOCATION

MGP/RCRA PIEZOMETER

MGP/RCRA SOIL BORING LOCATION

MGP/RCRA TEST PIT LOCATION

PSA/IRM GROUNDWATER MONITORING WELL LOCATION

PSA/IRM SOIL BORING LOCATION

PSA/IRM TEST PIT LOCATION

EXISTING CATCH BASIN

EXISTING STORM SEWER MANHOLE

EXISTING ELECTRICAL MANHOLE

EXISTING TELEPHONE MANHOLE

EXISTING UTILITY MANHOLE

MONITORING WELLS WHERE PRESENCE OF NAPL PRECLUDED GROUNDWATER ANALYSIS

CONSTITUENT DETECTED AT CONCENTRATION EXCEEDING NYSDEC STANDARDS/GUIDANCE VALUES PRESENTED IN TOGS 1.1.1.

NOTES:

- BASE MAP (INCLUDING BUILDING LOCATIONS AND PSA/IRM SAMPLE LOCATIONS) DEVELOPED FROM ELECTRONIC FILE OF NIAGARA MOHAWK POWER CORPORATION (NMPC) DRAWING NO. C-29738-C, DATED JULY 1994, ENTITLED NORTH ALBANY SERVICE CENTER HAZARDOUS WASTE MANAGEMENT PERMIT APPLICATION, TOPOGRAPHIC MAP - INDEX SHEET.
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- J = CONCENTRATION IS BASED ON A DILUTED SAMPLE ANALYSIS.
- ND = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER, THE NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
- NA = NOT ANALYZED.
- ND = NOT DETECTED.

MW-280	
Constituents	Total
Aluminum	96 B
Barium	7,910
Calcium	188,000 J
Chromium	1.8 B
Cobalt	2.8 B
Copper	114 J
Cyanide	482
Iron	35,400
Magnesium	1,680 J
Manganese	9,680 B
Nickel	330,000
Potassium	330,000
Sodium	119 B
Vanadium	1.9 B
Zinc	1.9 B

MW-1	
Constituents	Total
Aluminum	119 B
Barium	143,000 J
Calcium	1.3 B
Chromium	1.6 B
Cobalt	20.2 J
Copper	2,650 J
Cyanide	10.4 J
Iron	13,800 J
Magnesium	36,700 J
Manganese	1,000 J
Nickel	1.1 B
Potassium	8,360 BJ
Sodium	937,000 J
Vanadium	8.2 B
Zinc	8.2 B

PZ-010	
Constituents	Total
Arsenic	23
Barium	398
Calcium	100,000 J
Chromium	10.4 J
Cobalt	10.4 J
Copper	13,800 J
Cyanide	10.4 J
Iron	13,800 J
Magnesium	10,800 J
Manganese	1,710 J
Nickel	0.75 B
Potassium	8,360 BJ
Sodium	937,000 J
Vanadium	8.2 B
Zinc	8.2 B

MW-12	
Constituents	Total
Aluminum	80.3 B
Barium	23
Calcium	180,000 J
Chromium	3.1 B
Cobalt	11.1 J
Copper	40,200 J
Cyanide	3,310 J
Iron	6.2 B
Magnesium	3,210 J
Manganese	6.2 B
Nickel	0.75 B
Potassium	8,180 BJ
Sodium	192,000 J
Vanadium	1.2 B
Zinc	4.9 B

MW-9	
Constituents	Total
Aluminum	82.1 B
Barium	213,000 J
Calcium	1.1 B
Chromium	2.1 B
Cobalt	594
Copper	63,600 J
Cyanide	1,140 J
Iron	28,600 J
Magnesium	5,560 BJ
Manganese	26,000 J
Nickel	1,940 J
Potassium	11,600 J
Sodium	84,700 J
Vanadium	8.4 B
Zinc	13.1 B

PZ-015	
Constituents	Total
Arsenic	5 B
Barium	243
Calcium	158,000 J
Chromium	1.8 B
Cobalt	15 J
Copper	28,600 J
Cyanide	15 J
Iron	28,600 J
Magnesium	20,600 J
Manganese	1,940 J
Nickel	2,720 J
Potassium	6,090 J
Sodium	36,300 J
Vanadium	7.9 B
Zinc	7.9 B

PZ-02	
Constituents	Total
Arsenic	38.4 B
Barium	124,000 J
Calcium	15,800 J
Chromium	1.2 BJ
Cobalt	6,090 J
Copper	36,300 J
Cyanide	7.9 B
Iron	7.9 B
Magnesium	20,600 J
Manganese	2,720 J
Nickel	1.5 B
Potassium	8,760 BJ
Sodium	207,000 J
Vanadium	22.8
Zinc	22.8

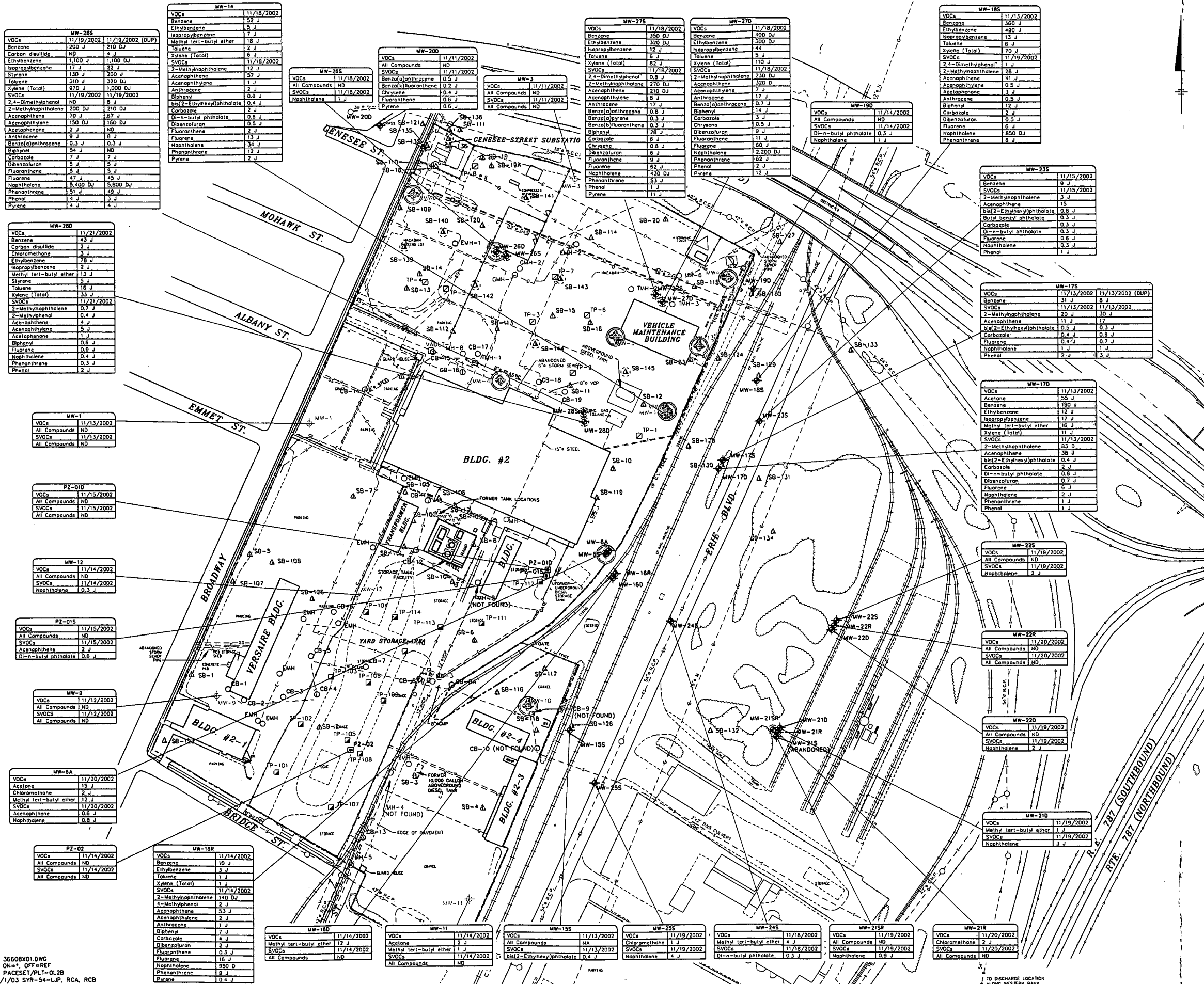
MW-8A	
Constituents	Total
Aluminum	1,270
Barium	514
Calcium	198,000
Chromium	2.5 B
Cobalt	2.7 B
Copper	418 J
Cyanide	43,500
Iron	5.8
Magnesium	34,700
Manganese	2,720 J
Nickel	1.5 B
Potassium	8,760 BJ
Sodium	207,000 J
Vanadium	22.8
Zinc	22.8

MW-160	
Constituents	Total
Aluminum	98.2 B
Barium	7.7 B
Calcium	738
Chromium	142,000 J
Cobalt	1.4 B
Copper	1.2 B
Cyanide	1.4 B
Iron	17,500 J
Magnesium	20,300 J
Manganese	2,150 J
Nickel	3,480 BJ
Potassium	204,000 J
Sodium	204,000 J
Vanadium	4.1 B
Zinc	4.1 B

MW-11	
Constituents	Total
Arsenic	25.5
Barium	204
Calcium	133,000 J
Chromium	31,100 J
Cobalt	1.4 B
Copper	27,200 J
Cyanide	4,030 J
Iron	10,800 J
Magnesium	82,800 J
Manganese	4.1 B
Nickel	4.1 B
Potassium	4.1 B
Sodium	4.1 B
Vanadium	4.1 B
Zinc	4.1 B

MW-155	
Constituents	Total
Aluminum	128 B
Barium	194 B
Calcium	62,300
Chromium	1.1 B
Cobalt	2.4 B
Copper	44.1 J
Cyanide	0.72 B
Iron	7,180
Magnesium	535 J
Manganese	0.042 B
Nickel	1.8
Potassium	1,820 B
Selenium	4.6 B
Sodium	298,000
Vanadium	17.7 B
Zinc	17.7 B

MW-18R	
constituents	Total
aluminum	441
arium	1,360
alcium	8,330 J
chromium	1.1 B
obalt	0.72 B
opper	3.9 B
on	788 J
ead	2.8 B
agnesium	915 BJ
anganese	37.6 J
ickel	5,130 BJ
otassium	324,000 J
odium	31.2



LEGEND:

- FENCE
- EXISTING RAILROAD
- APPROXIMATE PROPERTY LINE
- PRE-DESIGN INVESTIGATION SOIL BORING LOCATION
- ADDITIONAL GROUNDWATER INVESTIGATION GROUNDWATER MONITORING WELL LOCATION
- MGP/RCRA GROUNDWATER MONITORING WELL LOCATION
- MGP/RCRA PIEZOMETER
- MCP/RCRA SOIL BORING LOCATION
- MGP/RCRA TEST PIT LOCATION
- PSA/IRM GROUNDWATER MONITORING WELL LOCATION
- PSA/IRM SOIL BORING LOCATION
- PSA/IRM TEST PIT LOCATION
- EXISTING CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- EXISTING ELECTRICAL MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING UTILITY MANHOLE
- MONITORING WELLS WHERE PRESENCE OF NAPL PRECLUDED GROUNDWATER ANALYSIS
- CONSTITUENT DETECTED AT CONCENTRATION EXCEEDING NYSDEC STANDARDS/GUIDANCE VALUES PRESENTED IN TOGS 1.1.1.

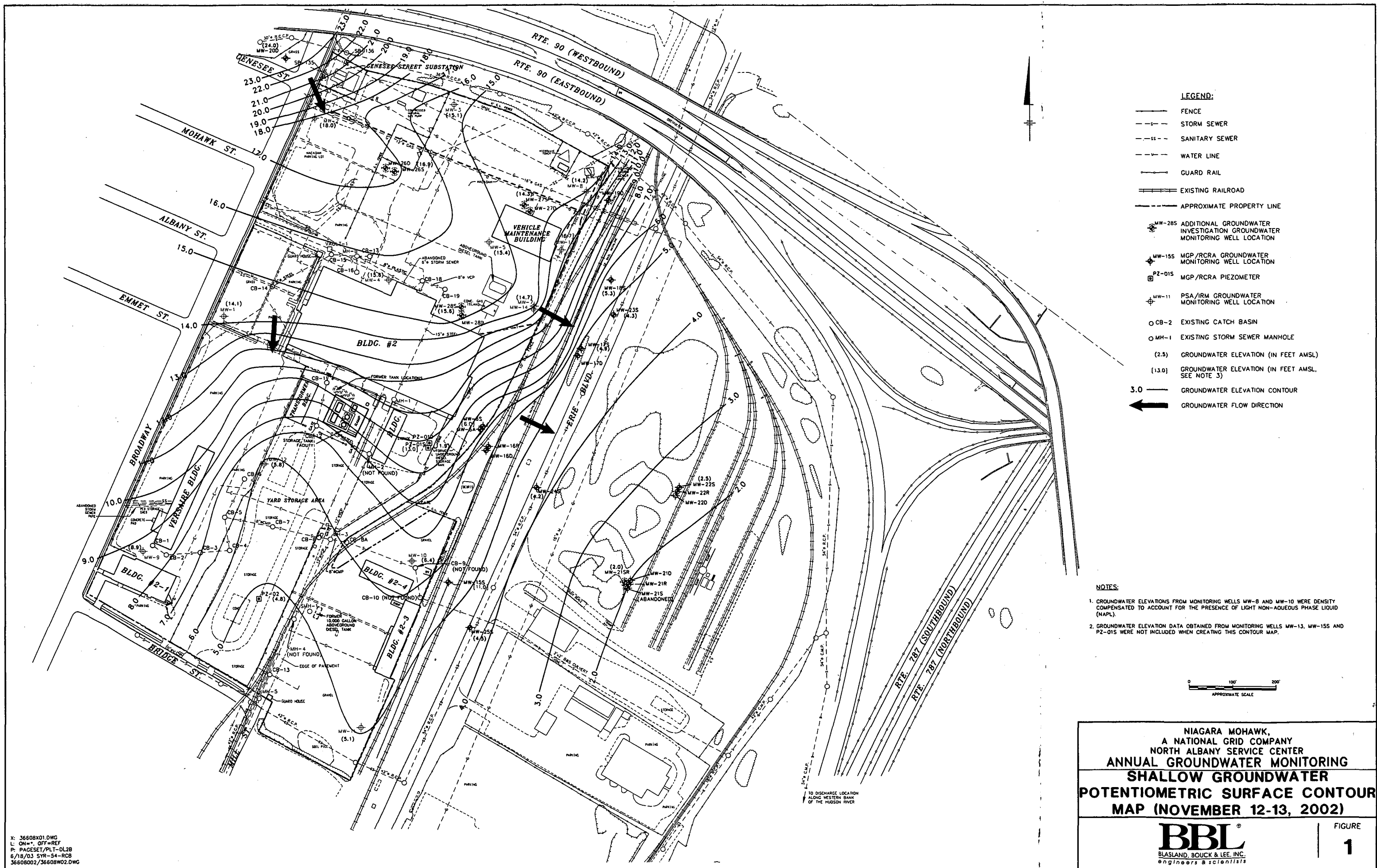
NOTES:

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D = CONCENTRATION IS BASED ON A DILUTED SAMPLE ANALYSIS.
E = THE COMPOUND WAS QUANTITATED ABOVE THE CALIBRATION RANGE.
J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER, THE NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
NA = NOT ANALYZED.
ND = NOT DETECTED.

NIAGARA MOHAWK, A NATIONAL GRID COMPANY
NORTH ALBANY SERVICE CENTER
ANNUAL GROUNDWATER MONITORING
GROUNDWATER ANALYTICAL
RESULTS (11/2002) DETECTED VOCs
AND SVOCs (ppb)

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2



- LEGEND:**
- FENCE
 - STORM SEWER
 - SANITARY SEWER
 - WATER LINE
 - GUARD RAIL
 - EXISTING RAILROAD
 - APPROXIMATE PROPERTY LINE
 - MW-285 ADDITIONAL GROUNDWATER INVESTIGATION GROUNDWATER MONITORING WELL LOCATION
 - MW-155 MGP/RCRA GROUNDWATER MONITORING WELL LOCATION
 - PZ-01S MGP/RCRA PIEZOMETER
 - MW-11 PSA/IRM GROUNDWATER MONITORING WELL LOCATION
 - CB-2 EXISTING CATCH BASIN
 - MH-1 EXISTING STORM SEWER MANHOLE
 - (2.5) GROUNDWATER ELEVATION (IN FEET AMSL)
 - (13.0) GROUNDWATER ELEVATION (IN FEET AMSL, SEE NOTE 3)
 - 3.0 GROUNDWATER ELEVATION CONTOUR
 - GROUNDWATER FLOW DIRECTION

NOTES:

- GROUNDWATER ELEVATIONS FROM MONITORING WELLS MW-8 AND MW-10 WERE DENSITY COMPENSATED TO ACCOUNT FOR THE PRESENCE OF LIGHT NON-AQUEOUS PHASE LIQUID (NAPL).
- GROUNDWATER ELEVATION DATA OBTAINED FROM MONITORING WELLS MW-13, MW-15S AND PZ-01S WERE NOT INCLUDED WHEN CREATING THIS CONTOUR MAP.



NIAGARA MOHAWK,
A NATIONAL GRID COMPANY
NORTH ALBANY SERVICE CENTER
ANNUAL GROUNDWATER MONITORING
SHALLOW GROUNDWATER
POTENTIOMETRIC SURFACE CONTOUR
MAP (NOVEMBER 12-13, 2002)

BBL
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engineers & scientists

FIGURE
1

X: 36608X01.DWG
L: ON=*, OFF=REF
P: PAGESET/PLT-DL2B
6/18/03 SYR-S4-RCB
36608002/36608W02.DWG

Attachment A

Groundwater Sampling Logs

10/2

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: KPM/AMB
Job Number: 366-08-00
Weather:

Well ID: MW-1
Date: 11/13/02
Time In: 7:15 Time Out: 10:00

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	8.81		
Total Depth (feet)	24.54		
Screened Interval (feet)	5-20		

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☐ No ☒
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other:

WELL WATER INFORMATION	
Length of Water Column: (feet)	15.73
Volume of Water in Well: (gal)	2.6
Pumping Rate of Pump: (mL/min)	100
Pump Start: 7:30 Pump Stop: 9:45	
Minutes of Pumping:	135
Total Volume Removed: (ml)	2.8 gal

Conversion Factors				
gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	
VOCs	☒
SVEs	☒
Metals	☒
Cyanide	☐
Sample ID:	MW-1
Sample Time:	8:35
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	6
Total Bottles:	6

EVACUATION INFORMATION
Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used: Teflon ☐ Polyethylene ☒
Sampling Method: VOCs Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry? Yes ☐ No ☒
Water Quality Meter Type: Quanta

Time	7:36	7:41	7:46	7:51	7:56	8:01	8:06	8:11	8:15
Parameter	Initial								
Volume Purged (ml)	Initial	300	400	500	600	700			
Depth to Water (ft. TIC)	8.84	8.86	8.82	8.82	8.83	8.83	8.83	8.83	8.83
Temperature (°C)	13.27	13.20	12.69	12.71	12.61	12.52	12.65	12.46	11.16
pH	6.86	6.79	6.77	6.77	6.77	6.77	6.75	6.78	6.76
Conductance (mS/cm)	6.679	0.698	0.769	0.762	0.769	0.736	0.736	0.730	0.498
Dissolved Oxygen (mg/L)	2.04	1.51	1.58	1.64	1.72	1.75	1.76	1.78	1.81
Turbidity (NTU)	712	254	234	175	145	146	106	113	113
Rate	750	100	100	100	100	100	90	80	80

Time	8:21	8:26	8:31
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)	8.83	8.81	8.81
Temperature (°C)	11.78	11.86	12.09
pH	6.75	6.75	6.75
Conductance (mS/cm)	0.520	0.629	0.606
Dissolved Oxygen (mg/L)	1.62	1.63	1.57
Turbidity (NTU)	89	83	82
Rate	70	70	76

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial: red/brown organic precipitate, very iron rich, turbid

SAMPLE DESTINATION
Laboratory: STL - Buffalo
Shipped Via: ☒ Federal Express ☐ Other:
Sample was ☒ shipped day of sampling ☐ sent on
Chain of Custody Signed By: KPM

10/2

2 of 2

Site: North Albany for National Grid
 GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/AMB
 Job Number: 346.08
 Weather:

Well ID: MW-1
 Date: 11/13/02
 Time In: Time Out:

WELL INFORMATION		TIC	TOC	BGS
Depth to Water	(feet)			
Total Depth	(feet)			
Screened Interval	(feet)			

check where appropriate
 Well Type: Flushmount ☐ Stick-Up ☐
 Well Locked: Yes ☐ No ☐
 Measuring Point Marked: Yes ☐ No ☐
 Well Diameter: 1" ☐ 2" ☐ Other:

WELL WATER INFORMATION	
Length of Water Column:	(feet)
Volume of Water in Well:	(gal)
Pumping Rate of Pump:	(mL/min)
Pump Start:	Pump Stop:
Minutes of Pumping:	
Total Volume Removed:	(ml)

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION
 Analyses: ☐
 Sample ID:
 Sample Time:
 MS/MSD: Yes ☐ No ☐
 Duplicate: Yes ☐ No ☐
 Duplicate ID:
 Total Bottles:

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☐
 Sampling Method: Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐
 Old well go dry? Yes ☐ No ☐ Water Quality Meter Type:

Time	1	2	3	4	5	6	7	8	9
Parameter	8:36 Initial	8:41	8:46	8:51	8:56	9:01	Final parameters		
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	8.81	8.81	8.81	8.81	8.81	8.81	8.81		
Temperature (°C)	12.12	12.40	12.40	12.39	12.49	12.47	12.55		
pH	6.75	6.75	6.75	6.74	6.75	6.75	6.70		
Conductance (mS/cm)	0.549	0.450	0.583	0.519	0.509	0.517	0.597		
Dissolved Oxygen (mg/L)	1.57	1.64	1.55	1.45	1.68	1.59	1.63		
Turbidity (NTU)	70	70	65	53	36	30	70		
ORP (mV)	Let's	70	70	70	70	70	NA		

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION
 Laboratory: STL - Buffalo
 Shipped Via: ☐ Federal Express ☐ Other:
 Sample was ☐ shipped day of sampling ☐ sent on
 Chain of Custody Signed By: KPM

6.7
1.4
8.1

10/2

9.5
2.8

5.6

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: KPM/AMB
Job Number: 366-108-000
Weather: pt mostly cloudy, 72°F RAIN
Well ID: MW-3
Date: 11/11/02
Time In: 1200 Time Out: 1600

WELL INFORMATION		check where appropriate	
Depth to Water (feet)	6.69	Well Type:	Flushmount ☒ Stick-Up ☐
Total Depth (feet)	11.5	Well Locked:	Yes ☐ No ☒
Screened Interval (feet)	4.5-9.5	Measuring Point Marked:	Yes ☒ No ☐
		Well Diameter:	1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	4.86
Volume of Water in Well: (gal)	0.8 gal
Pumping Rate of Pump: (mL/min)	100
Pump Start: 1305	Pump Stop: 1550
Minutes of Pumping:	165
Total Volume Removed: (ml)	16.5 L

Conversion Factors			
gallons per foot of water column:	1" ID	2" ID	4" ID
	0.041	0.163	0.653

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	☒
VOCs	☒
SVOCs	☒
Metals	☒
CN	☐
Sample ID:	MW-3
Sample Time:	1520
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	6
Total Bottles:	6

EVACUATION INFORMATION	
Evacuation Method:	Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used:	Teflon ☐ Polyethylene ☒ Grunfos ☐ Other Pump ☐
Sampling Method:	VOLs Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry?	Yes ☐ No ☒
Water Quality Meter Type:	Quanta/Hach

Time	1 1315	2 1323	3 1330	4 1335	5 1343	6 1348	7 1353	8 1358	9 1405
Parameter	Initial	Initial	Initial	Initial	Initial	Initial	Initial	Initial	Initial
Volume Purged (ml)	Initial	800 mL	1500 mL	2000 mL	2800 mL	3 L	3.3 L	3.52 L	3.75
Depth to Water (ft. TIC)	6.69	6.69	6.69	6.69	6.69	6.72	6.72	6.72	6.72
Temperature (°C)	17.10	16.95	16.70	16.13	16.00	15.98	14.02	10.00	16.11
pH	6.59	6.43	6.47	6.45	6.49	6.42	6.42	6.41	6.42
Conductance (mS/cm)	6.263	0.287	0.289	0.291	0.315	0.41	0.861	1.109	1.318
Dissolved Oxygen (mg/L)	3.29	2.92	2.67	2.58	2.71	2.38	2.22	2.16	1.96
Turbidity (NTU)	123	117	83	70	40	35	24	18	12
ORP (mV)									

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Started pouring rain during setup -
Waited for deluge to subside to
complete setup & begin purge.
Initial purge moderately turbid no o/sh.
* → adj down to 50 mL/min.
* adj. pump rate to 75 mL/min

SAMPLE DESTINATION		Sample was		Chain of Custody Signed By:
Laboratory:	STL - Buffalo	☒ shipped day of sampling		KPM
Shipped Via:	☒ Federal Express ☐ Other:	☐ sent on 11/11/02		

Page 1 of 2

2012

Site: North Albany for National Grid
 Event: Fall Sampling
 GROUND-WATER SAMPLING LOG

Sampling Personnel: See pg 1
 Job Number:
 Weather:
 Well ID: MW-3
 Date: 11/11/02
 Time In:
 Time Out:

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)			
Total Depth (feet)			
Screened Interval (feet)			

check where appropriate

Well Type: ☐ Flushmount ☐ Stick-Up

Well Locked: Yes ☐ No ☐

Measuring Point Marked: Yes ☐ No ☐

Well Diameter: 1" ☐ 2" ☐ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	
Volume of Water in Well: (gal)	
Pumping Rate of Pump: (mL/min)	
Pump Start:	Pump Stop:
Minutes of Pumping:	
Total Volume Removed: (ml)	

Conversion Factors				
gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	☐
Sample ID:	
Sample Time:	
MS/MSD:	Yes ☐ No ☐
Duplicate:	Yes ☐ No ☐
Duplicate ID:	
Total Bottles:	

EVACUATION INFORMATION

Evacuation Method: ☐ Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐

Tubing Used: ☐ Teflon ☐ Polyethylene ☐ Other Pump ☐

Sampling Method: ☐ Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐

Did well go dry? Yes ☐ No ☐

Water Quality Meter Type: Quanta

Time	1	2	3	4	5	6	7	8	9
Parameter	1435	1443	1453	1458	1503	1508	1513	1518	
Volume Purged (ml)	3gal								
Depth to Water (ft. TIC)	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	
Temperature (°C)	16.27	16.31	16.27	16.28	16.32	16.30	16.30	16.33	
pH	6.19	6.19	6.20	6.20	6.20	6.20	6.20	6.20	
Conductance (mS/cm)	3.08	3.44	3.84	3.89	4.03	4.14	4.16	4.24	
Dissolved Oxygen (mg/L)	1.18	0.98	0.79	0.71	0.66	0.60	0.55	0.51	
Turbidity (NTU)	3	2	2	2	2	2	2	2	
ORP (mV)									

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

1408 - noticed conductivity increasing steadily. Switched out Quanta to see if there was a problem w/ the units - NO. RDK had 5.44 mS/cm last year. Called LBM - cannot reach abgmt cond. spoke w/ Dave Lay for corroboration - have 4 well volumes / low turbidity so with sample.

SAMPLE DESTINATION

Laboratory: STL - Buffalo

Shipped Via: ☐ Federal Express ☐ Other: ☐

Sample was ☐ shipped day of sampling ☐ sent on ☐

Chain of Custody Signed By: ☐

KPM

Page 2 of 2

Site: North Albany for National Grid

GROUND-WATER SAMPLING LOG

Event
Fall SamplingSampling Personnel: KPM

Job Number: _____

Weather: _____

Well ID: MAN 65Date: 11/20/12Time In: 1330

Time Out: _____

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>0.9</u>		
Total Depth (feet)			
Screened Interval (feet)			

check where appropriate

Well Type:

Flushmount ☐Stick-Up ☐

Well Locked:

Yes ☐No ☐

Measuring Point Marked:

Yes ☐No ☐

Well Diameter:

1" ☐2" ☐Other ☐

WELL WATER INFORMATION

Length of Water Column: (feet)	
Volume of Water in Well: (gal)	
Pumping Rate of Pump: (mL/min)	
Pump Start: Pump Stop:	
Minutes of Pumping:	
Total Volume Removed: (ml)	

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	8" ID
	0.041	0.163	0.652	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

_____	☐
_____	☐
_____	☐
_____	☐
_____	☐
_____	☐

Sample ID: _____

Sample Time: _____

MS/MSD: Yes ☐ No ☐Duplicate: Yes ☐ No ☐

Duplicate ID: _____

Total Bottles: _____

EVACUATION INFORMATION

Evacuation Method:

Bailer ☐Peristaltic ☐Grunfos ☐Other Pump ☐

Tubing Used:

Teflon ☐Polyethylene ☐

Sampling Method:

Bailer ☐Peristaltic ☐Grunfos ☐Other Pump ☐

Did well go dry?

Yes ☐No ☐

Water Quality Meter Type: _____

Time	1	2	3	4	5	6	7	8	9
Parameter	Initial								
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)									
Temperature (°C)									
pH									
Conductance (mS/cm)									
Dissolved Oxygen (mg/L)									
Turbidity (NTU)									
ORP (mV)									

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Coal tar @ 4.94'
map marked wrong -
reverse 6A/6S
6S = North
6A = South

SAMPLE DESTINATION

Laboratory:

STL - Buffalo

Shipped Via:

☐ Federal Express☐ Other: _____

Sample was

☐ shipped day of sampling☐ sent on _____

Chain of Custody Signed By:

KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/AMB
 Job Number: 566-08-006
 Weather: cloudy ~50°
 Well ID: MW-9
 Date: 11/12/02
 Time In: 710 Time Out: 925

WELL INFORMATION		TIC		TOC		BGS	
Depth to Water	(feet)	12.36					
Total Depth	(feet)	19.45					
Screened Interval	(feet)	8-18					
<u>~ Pump placement 16.3'</u>							

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column:	(feet) 7.09
Volume of Water in Well:	(gal) 1.12
Pumping Rate of Pump:	(mL/min) 125
Pump Start:	7:25 Pump Stop: 9:04
Minutes of Pumping:	46
Total Volume Removed:	(ml) ~3 gal

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.459

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	<u>VOCS</u> ☒ <u>SVOCs</u> ☒ <u>Metals</u> ☒ <u>AW</u> ☒
Sample ID:	<u>MW-9</u>
Sample Time:	<u>8:45</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☒ No ☐
Duplicate ID:	<u>8:45</u>
Total Bottles:	<u>4</u>

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quanta

Time	1 7:55	2 8:00	3 8:05	4 8:10	5 8:15	6 8:20	7 8:25	8 8:30	9 8:35
Parameter	Initial								
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	12.50	12.51	12.51	12.51	12.51	12.51	12.51	12.51	12.57
Temperature (°C)	15.31	15.35	15.59	15.54	15.53	15.81	15.57	15.65	15.64
pH	6.56	6.51	6.50	6.50	6.49	6.49	6.49	6.58	6.49
Conductance (mS/cm)	0.75	0.75	0.602	0.614	0.645	0.632	0.60	0.60	0.701
Dissolved Oxygen (mg/L)	3.25	0.94	0.78	0.73	0.70	0.61	0.57	0.72	0.50
Turbidity (NTU)	44	37	35	19	14	8	6	5	9
ORP (mV)									

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION
 Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: ☐
 Sample was ☒ shipped day of sampling ☐ sent on ☐
 Chain of Custody Signed By: KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: KPM/AMB
Job Number: 300.08.006
Weather: Sunny, warm
Well ID: MW-11
Date: 11/14/02
Time In: 1300 Time Out: 1535

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	<u>15.85</u>		
Total Depth (feet)	<u>20.0</u>		
Screened Interval (feet)	<u>16-21.2</u>		

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☐
Well Locked: Yes ☐ No ☐
Measuring Point Marked: Yes ☐ No ☐
Well Diameter: 1" ☐ 2" ☐ Other: ☐

18.4

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>4.45</u>
Volume of Water in Well: (gal)	<u>.73</u>
Pumping Rate of Pump: (mL/min)	<u>60</u>
Pump Start: <u>1330</u>	Pump Stop: <u>1513</u>
Minutes of Pumping: <u>113</u>	
Total Volume Removed: (ml)	<u>618 L</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.489
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	
VOC's	☒
SVOC's	☒
Metals	☒
CN	☒
Sample ID:	<u>MW-11</u>
Sample Time:	<u>1425</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	
Total Bottles:	<u>6</u>

EVACUATION INFORMATION

Evacuation Method: Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used: Teflon ☐ Polyethylene ☒
Sampling Method: VOCs Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Old well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quantar/Hach

Time	1 1330	2 1335	3 1340	4 1345	5 1350	6 1355	7 1400	8 1405	9 1410
Parameter	Initial								
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	<u>16.43</u>	<u>16.56</u>	<u>16.56</u>	<u>16.62</u>	<u>16.63</u>	<u>16.63</u>	<u>16.63</u>	<u>16.58</u>	<u>16.55</u>
Temperature (°C)	<u>15.21</u>	<u>14.97</u>	<u>14.73</u>	<u>14.62</u>	<u>14.52</u>	<u>14.40</u>	<u>14.19</u>	<u>13.97</u>	<u>13.93</u>
pH	<u>6.93</u>	<u>6.85</u>	<u>6.85</u>	<u>6.86</u>	<u>6.86</u>	<u>6.85</u>	<u>6.85</u>	<u>6.84</u>	<u>6.98</u>
Conductance (mS/cm)	<u>0.001</u>	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>	<u>0.002</u>	<u>0.001</u>	<u>0.001</u>
Dissolved Oxygen (mg/L)	<u>0.82</u>	<u>0.45</u>	<u>0.45</u>	<u>0.38</u>	<u>0.36</u>	<u>0.34</u>	<u>0.37</u>	<u>0.37</u>	<u>0.40</u>
Turbidity (NTU)	<u>111</u>	<u>42</u>	<u>53</u>	<u>79</u>	<u>131</u>	<u>112</u>	<u>95</u>	<u>63</u>	<u>16</u>
ORP (mV) <u>Rati</u>	<u>250</u>	<u>140</u>	<u>185</u>	<u>125</u>	<u>100</u>	<u>76</u>	<u>70</u>	<u>60</u>	<u>60</u>

Time	10 1415	11 1420	12 Final 1425
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)	<u>16.55</u>	<u>16.55</u>	<u>16.43</u>
Temperature (°C)	<u>13.90</u>		<u>13.84</u>
pH	<u>6.84</u>		<u>7.10</u>
Conductance (mS/cm)	<u>0.001</u>		<u>0.001</u>
Dissolved Oxygen (mg/L)	<u>0.41</u>		<u>0.285</u>
Turbidity (NTU)	<u>15</u>		<u>121</u>
ORP (mV)	<u>60</u>	<u>60</u>	<u>NA</u>

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial - organics, red color cleared up fast rocks
Final - clean, no o/sh

Final WL: 16.22

SAMPLE DESTINATION

Laboratory: STL - Buffalo
Shipped Via: ☒ Federal Express ☐ Other: _____
Sample was ☒ shipped day of sampling ☐ sent on _____
Chain of Custody Signed By: KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/AmB
 Job Number: 3166-08-006
 Weather: Sunny, Warm, 50°
 Well ID: MW-12
 Date: 11/14/02
 Time In: 1110 Time Out: 1420

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>14.30</u>		
Total Depth (feet)	<u>26.70</u>		
Screened Interval (feet)	<u>6-21</u>		

pump intake v 22.5 16.5

check where appropriate
 Well Type: ☐ Flushmount ☐ Stick-Up ☒
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>12.4</u>
Volume of Water in Well: (gal)	<u>2</u>
Pumping Rate of Pump: (mL/min)	<u>100</u>
Pump Start: <u>1449</u>	Pump Stop: <u>1555</u>
Minutes of Pumping:	<u>126</u>
Total Volume Removed: (ml)	<u>1.9 gal</u>

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: VOCs ☒
SUOCs ☒
metals ☒
CN ☒
 Sample ID: MW-12
 Sample Time: 1305
 MS/MSD: Yes ☐ No ☒
 Duplicate: Yes ☐ No ☒
 Duplicate ID: _____
 Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: ☒ Bailor ☒ Peristaltic ☐ Grunfos ☐ Other Pump _____
 Tubing Used: ☒ Teflon ☒ Polyethylene ☐
 Sampling Method: VOCs ☒ Bailor ☒ Peristaltic ☐ Grunfos ☐ Other Pump _____
 Did well go dry? Yes ☐ No ☒
 Water Quality Meter Type: Quant 1/4 HF signifi

Time	1 1155	2 1200	3 1208	4 1213	5 1218	6 * 1220	7 1228	8 1233	9 1238
Parameter	Initial								
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	<u>14.31</u>	<u>14.31</u>	<u>14.31</u>	<u>14.31</u>	<u>14.31</u>	<u>14.31</u>	<u>14.31</u>	<u>14.31</u>	<u>14.31</u>
Temperature (°C)	<u>15.74</u>	<u>15.88</u>	<u>16.03</u>	<u>15.77</u>	<u>15.73</u>	<u>15.83</u>	<u>16.02</u>	<u>15.99</u>	<u>15.84</u>
pH	<u>6.44</u>	<u>6.12</u>	<u>6.03</u>	<u>5.92</u>	<u>5.89</u>	<u>6.13</u>	<u>6.33</u>	<u>6.66</u>	<u>7.10</u>
Conductance (mS/cm)	<u>0.974</u>	<u>0.972</u>	<u>0.988</u>	<u>1.003</u>	<u>1.040</u>	<u>1.074</u>	<u>1.185</u>	<u>1.67</u>	<u>2.16</u>
Dissolved Oxygen (mg/L)	<u>7.33</u>	<u>7.03</u>	<u>6.57</u>	<u>5.54</u>	<u>5.07</u>	<u>6.80</u>	<u>7.26</u>	<u>7.41</u>	<u>7.51</u>
Turbidity (NTU)	<u>11.3</u>	<u>4.2</u>	<u>3.7</u>	<u>3.8</u>	<u>3.7</u>	<u>3.5</u>	<u>4.9</u>	<u>4.7</u>	<u>4.9</u>
ORP (mV)	<u>90</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>101</u>	<u>100</u>	<u>100</u>

Time	10 1243	11 1248	12 1253
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)	<u>14.31</u>	<u>14.31</u>	<u>14.31</u>
Temperature (°C)	<u>16.14</u>	<u>15.89</u>	<u>15.84</u>
pH	<u>7.29</u>	<u>7.33</u>	<u>7.06</u>
Conductance (mS/cm)	<u>2.30</u>	<u>2.40</u>	<u>2.41</u>
Dissolved Oxygen (mg/L)	<u>7.36</u>	<u>7.07</u>	<u>5.88</u>
Turbidity (NTU)	<u>6.3</u>	<u>6.4</u>	<u>5.9</u>
ORP (mV)	<u>100</u>	<u>100</u>	<u>100</u>

MISCELLANEOUS OBSERVATIONS/PROBLEMS
initial: clear no o/sk.

1220 - battery change

final WL: 14.30

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: _____
 Sample was ☒ shipped day of sampling ☐ sent on _____
 Chain of Custody Signed By: _____
 KPM

2

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: _____
 Job Number: _____
 Weather: _____

Well ID: MW-12
 Date: 11/14/02
 Time In: _____ Time Out: _____

WELL INFORMATION

See Pg 1

Depth to Water (feet)	TOC	BGS
Total Depth (feet)		
Screened Interval (feet)		

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☐
 Well Locked: Yes ☐ No ☐
 Measuring Point Marked: Yes ☐ No ☐
 Well Diameter: 1" ☐ 2" ☐ Other: _____

WELL WATER INFORMATION

Length of Water Column: (feet)	
Volume of Water in Well: (gal)	
Pumping Rate of Pump: (mL/min)	
Pump Start: _____ Pump Stop: _____	
Minutes of Pumping: _____	
Total Volume Removed: (ml)	

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: _____

Sample ID: _____
 Sample Time: _____
 MS/MSD: Yes ☐ No ☐
 Duplicate: Yes ☐ No ☐
 Duplicate ID: _____
 Total Bottles: _____

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☐
 Sampling Method: Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☐ Water Quality Meter Type: _____

Time	1	2	3	4	5	6	7	8	9
Parameter	12:58	13:03	Bailer Purans						
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	14.31	14.31	—						
Temperature (°C)	15.95	15.57	16.58						
pH	7.05	7.05	7.24						
Conductance (mS/cm)	2.43	2.42	2.60						
Dissolved Oxygen (mg/L)	5.36	5.41	2.34						
Turbidity (NTU)	6.5	6.3	4.5						
ORP (mv)	late	100	100						

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mv)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☐ Federal Express ☐ Other: _____
 Sample was ☐ shipped day of sampling ☐ sent on _____
 Chain of Custody Signed By: _____
 KPM

Pg 2 of 2

Site: North Albany for National Grid
 GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: RDK
 Job Number: 366-08.006
 Weather: Cloudy, Low 40's
 Well ID: MW-14
 Date: 11/18/02
 Time In: 1355 Time Out: 1530

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	<u>10.95</u>	<u>—</u>	<u>—</u>
Total Depth (feet)	<u>21.92</u>	<u>—</u>	<u>—</u>
Screened Interval (feet)	<u>—</u>	<u>—</u>	<u>14.2-19.2</u>

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>10.97</u>
Volume of Water in Well: (gal)	<u>1.8</u>
Pumping Rate of Pump: (mL/min)	<u>300</u>
Pump Start: <u>1405</u>	Pump Stop: <u>1445 (sample)</u>
Minutes of Pumping: <u>40</u>	
Total Volume Removed: (ml)	<u>11,200 / 3.16L</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	☒
<u>TCI VOCs</u>	☒
<u>TCI SVOCs</u>	☒
<u>TAI INORGANICS + CN</u>	☒
Sample ID: <u>MW-14</u>	
Sample Time: <u>1445</u>	
MS/MSD: Yes ☐ No ☒	
Duplicate: Yes ☐ No ☒	
Duplicate ID: <u>N/A</u>	
Total Bottles: <u>6</u>	

EVACUATION INFORMATION	
Evacuation Method:	Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used:	Teflon ☐ Polyethylene ☒
Sampling Method:	Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry?	Yes ☐ No ☒

HACH 2100 P TURBIDIMETER
 Water Quality Meter Type: QUANTA HYDROLAB w/ FLOW THROUGH CELL

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>1406</u>	<u>1410</u>	<u>1415</u>	<u>1420</u>	<u>1425</u>	<u>1430</u>	<u>1435</u>	<u>1440</u>	<u>1445</u>
Volume Purged (ml)	Initial	<u>1200</u>	<u>2700</u>	<u>4200</u>	<u>5700</u>	<u>7200</u>	<u>8700</u>	<u>10,200</u>	<u>11700</u>
Depth to Water (ft. TIC)	<u>11.08</u>	<u>11.08</u>	<u>11.08</u>	<u>11.08</u>	<u>11.08</u>	<u>11.08</u>	<u>11.08</u>	<u>11.08</u>	<u>11.08</u>
Temperature (°C)	<u>12.04</u>	<u>14.88</u>	<u>14.96</u>	<u>15.09</u>	<u>15.11</u>	<u>15.16</u>	<u>15.07</u>	<u>15.11</u>	<u>15.14</u>
pH	<u>7.00</u>	<u>6.94</u>	<u>6.95</u>	<u>6.94</u>	<u>6.94</u>	<u>6.93</u>	<u>6.93</u>	<u>6.93</u>	<u>6.93</u>
Conductance (mS/cm)	<u>0.015</u>	<u>0.034</u>	<u>0.046</u>	<u>0.030</u>	<u>0.029</u>	<u>0.031</u>	<u>0.035</u>	<u>0.039</u>	<u>0.042</u>
Dissolved Oxygen (mg/L)	<u>4.51</u>	<u>0.41</u>	<u>0.30</u>	<u>0.25</u>	<u>0.23</u>	<u>0.23</u>	<u>0.23</u>	<u>0.20</u>	<u>0.20</u>
Turbidity (NTU)	<u>103</u>	<u>41</u>	<u>17</u>	<u>9</u>	<u>5</u>	<u>5</u>	<u>3</u>	<u>3</u>	<u>2</u>
ORP (mV)	<u>223</u>	<u>163</u>	<u>143</u>	<u>136</u>	<u>131</u>	<u>127</u>	<u>124</u>	<u>122</u>	<u>120</u>

Time	10	11	12
Parameter	<u>Final</u>		
Volume Purged (ml)	<u>N/A</u>		
Depth to Water (ft. TIC)	<u>N/A</u>		
Temperature (°C)	<u>15.20</u>		
pH	<u>6.96</u>		
Conductance (mS/cm)	<u>0.052</u>		
Dissolved Oxygen (mg/L)	<u>N/A</u>		
Turbidity (NTU)	<u>5</u>		
ORP (mV)	<u>123</u>		

MISCELLANEOUS OBSERVATIONS/PROBLEMS

INITIAL PARGE H₂O OPAQUE, COLORLESS w/ O₂ DR
 FINAL PARGE H₂O CLEAR, COLORLESS w/ O₂ DR
 - SAMPLED MIA SCREEN w/ PERISTALTIC PUMP!
 DEPLETED/ O₂ DR. PE BAILER

SAMPLE DESTINATION	
Laboratory: <u>STL - Buffalo</u>	Sample was ☒ shipped day of sampling
Shipped Via: ☒ Federal Express ☐ Other: <u> </u>	☐ sent on <u> </u>
Chain of Custody Signed By: <u>KPM</u>	

128
28
56

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: KPM/AMPB
Job Number: 366-08-006
Weather: cloudy, cool, 50°
Well ID: MW-155
Date: 11/13/02
Time In: 1545 Time Out: 1735

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	5.52		
Total Depth (feet)	13.56	13.28	
Screened Interval (feet)	5.8-15.3		
pump intake ~ 10.5			

check where appropriate

Well Type: Flushmount ☒ Stick-Up ☐

Well Locked: Yes ☒ No ☐

Measuring Point Marked: Yes ☒ No ☐

Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	2.94
Volume of Water in Well: (gal)	1.3
Pumping Rate of Pump: (mL/min)	150
Pump Start: 1557	Pump Stop: 1728
Minutes of Pumping:	91
Total Volume Removed: (mL)	1.8 gal

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.489

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	VOCs ☒ SVOCs ☒ Metals ☒ CN ☒
Sample ID:	MW-155
Sample Time:	1645
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	
Total Bottles:	6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐

Tubing Used: Teflon ☐ Polyethylene ☒

Sampling Method: VOCs ☒ Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐

Did well go dry? Yes ☐ No ☐ Water Quality Meter Type: Quartz/Hand

Time	1 1600	2 1607	3 1612	4 1617	5 1626	6 1634	7 1636	8 1641	9 Final
Parameter	Initial								Build
Volume Purged (mL)	Initial								
Depth to Water (ft. TIC)	5.56	5.57	5.57	5.57	5.57	5.57	5.59	5.57	5.55
Temperature (°C)	13.16	13.36	13.31	13.24	13.22	13.30	13.40	13.31	12.86
pH	7.51	6.99	6.92	6.89	6.90	7.00	6.94	6.90	7.64
Conductance (mS/cm)	0.743	0.742	0.732	0.743	0.741	0.745	0.722	0.722	0.473
Dissolved Oxygen (mg/L)	1.40	0.64	0.44	0.41	0.39	0.445	0.36	0.35	3.06
Turbidity (NTU)	68.5	50	39.8	25.2	18.8	10.2	8.6	5	—
ORP (mV)	140	190	150	150	150	150	150	150	—

Time	10	11	12
Parameter			
Volume Purged (mL)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

initial: clear, purg, slight odor/no show

final: clear, still slight odor

Final WL = 5.55

SAMPLE DESTINATION

Laboratory: STL - Buffalo

Shipped Via: ☒ Federal Express ☐ Other: _____

Sample was: ☐ shipped day of sampling ☐ sent on _____

Chain of Custody Signed By: KPM

Site: North Albany for National Grid
 Event: Fall Sampling
 GROUND-WATER SAMPLING LOG

Sampling Personnel: KPM/AMB
 Job Number: 36608006
 Weather: clear, cld, 30° - sl fog
 Well ID: MW-16R
 Date: 11/14/02
 Time In: 655 Time Out: 1000

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>9.37</u>		
Total Depth (feet)	<u>37.68</u>		
Screened Interval (feet)	<u>27.9-37.4</u>		

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>28.31</u>
Volume of Water in Well: (gal)	<u>4.6</u>
Pumping Rate of Pump: (mL/min)	<u>50</u>
Pump Start: <u>710</u> Pump Stop: <u>945</u>	
Minutes of Pumping: <u>155</u>	
Total Volume Removed: (ml)	<u>7.8L</u>

Conversion Factors

	1" ID	2" ID	4" ID	6" ID
gallons per foot of water column:	0.041	0.163	0.853	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	OO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: VOLs ☒
SOLs ☒
Metals ☒
CN ☒
 Sample ID: MW-16R
 Sample Time: 7:20:35
 MS/MSD: Yes ☐ No ☒
 Duplicate: Yes ☐ No ☒
 Duplicate ID: _____
 Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: VOLs Bailer ☒ Peristaltic ☒ Grunfos ☐
 Did well go dry? Yes ☐ No ☒
 Water Quality Meter Type: Quanta/Hach

Time	1	2	3	4	5	6	7	8	9
Parameter	Initial	135	740	145	750	155	800	805	810
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	<u>12.65</u>	<u>12.07</u>	<u>12.42</u>	<u>11.84</u>	<u>11.61</u>	<u>11.41</u>	<u>11.43</u>	<u>11.24</u>	<u>11.20</u>
Temperature (°C)	<u>13.09</u>	<u>12.10</u>	<u>11.83</u>	<u>11.53</u>	<u>11.40</u>	<u>11.37</u>	<u>11.35</u>	<u>11.27</u>	<u>11.01</u>
pH	<u>7.17</u>	<u>7.19</u>	<u>7.50</u>	<u>8.13</u>	<u>8.18</u>	<u>8.20</u>	<u>8.20</u>	<u>8.20</u>	<u>8.20</u>
Conductance (mS/cm)	<u>0.021</u>	<u>0.052</u>	<u>0.190</u>	<u>0.304</u>	<u>0.243</u>	<u>0.230</u>	<u>0.218</u>	<u>0.191</u>	<u>0.175</u>
Dissolved Oxygen (mg/L)	<u>2.89</u>	<u>2.44</u>	<u>1.30</u>	<u>0.81</u>	<u>0.70</u>	<u>0.50</u>	<u>0.40</u>	<u>0.44</u>	<u>0.41</u>
Turbidity (NTU)	<u>32</u>	<u>37</u>	<u>47</u>	<u>39</u>	<u>36</u>	<u>39</u>	<u>47</u>	<u>50</u>	<u>40</u>
ORP (mV)	<u>Rat</u>	<u>250</u>	<u>70</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>

Time	10	11	12
Parameter	815	820	825
Volume Purged (ml)			
Depth to Water (ft. TIC)	<u>11.18</u>	<u>11.16</u>	<u>11.11</u>
Temperature (°C)	<u>11.78</u>	<u>11.75</u>	<u>11.87</u>
pH	<u>8.22</u>	<u>8.20</u>	<u>8.21</u>
Conductance (mS/cm)	<u>0.079</u>	<u>0.065</u>	<u>0.055</u>
Dissolved Oxygen (mg/L)	<u>0.51</u>	<u>0.38</u>	<u>0.37</u>
Turbidity (NTU)	<u>34</u>	<u>34</u>	<u>28</u>
ORP (mV)	<u>Rat</u>	<u>50</u>	<u>50</u>

MISCELLANEOUS OBSERVATIONS/PROBLEMS
initial: clear sl. petroleum odor, no
final: same
Shen

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: _____
 Sample was ☒ shipped day of sampling ☐ sent on _____
 Chain of Custody Signed By: KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/AMB
 Job Number: 98
 Weather: _____

Well ID: MW-16R
 Date: 11/14/02
 Time In: _____ Time Out: _____

WELL INFORMATION		TIC	TOC	BGS
Depth to Water	(feet)			
Total Depth	(feet)			
Screened Interval	(feet)			

check where appropriate
 Well Type: Flushmount ☐ Stick-Up ☐
 Well Locked: Yes ☐ No ☐
 Measuring Point Marked: Yes ☐ No ☐
 Well Diameter: 1" ☐ 2" ☐ Other: _____

WELL WATER INFORMATION	
Length of Water Column:	(feet)
Volume of Water in Well:	(gal)
Pumping Rate of Pump:	(mL/min)
Pump Start:	Pump Stop:
Minutes of Pumping:	
Total Volume Removed:	(ml)

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				
Unit Stability				
pH	DO	Cond	ORP	
± 0.1	± 10%	± 3.0%	± 10 mV	

SAMPLING INFORMATION

Analyses: _____

Sample ID: _____

Sample Time: _____

MS/MSD: Yes ☐ No ☐

Duplicate: Yes ☐ No ☐

Duplicate ID: _____

Total Bottles: _____

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐

Tubing Used: Teflon ☐ Polyethylene ☐

Sampling Method: Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐

Did well go dry? Yes ☐ No ☐ Water Quality Meter Type: _____

Time	1	2	3	4	5	6	7	8	9
Parameter	030 Initial	035	040	045	Final				
Volume Purged (ml)	Initial				1				
Depth to Water (ft. TIC)					11.03				
Temperature (°C)					14.40				
pH					7.64				
Conductance (mS/cm)					0.067				
Dissolved Oxygen (mg/L)					4.56				
Turbidity (NTU)					30				
ORP (mV)					NA				

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: STL - Buffalo

Shipped Via: ☐ Federal Express ☐ Other: _____

Sample was ☐ shipped day of sampling ☐ sent on _____

Chain of Custody Signed By: KPM

Site: North Albany for National Grid
 Event: Fall Sampling
 GROUND-WATER SAMPLING LOG

Sampling Personnel: KPM/AMB
 Job Number: 366.08.006
 Weather: clear (fog), cold 30°
 Well ID: MW-16D
 Date: 11/14/02
 Time In: 655 Time Out: 850

WELL INFORMATION		TIC		TOC		BGS	
Depth to Water	(feet)	9.81					
Total Depth	(feet)	14.73					
Screened Interval	(feet)	11-20.5					

pump intake ~ 14.5

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column:	(feet) <u>9.92</u>
Volume of Water In Well:	(gal) <u>1.12</u>
Pumping Rate of Pump:	(mL/min) <u>130</u>
Pump Start:	<u>736</u> Pump Stop: <u>842</u>
Minutes of Pumping:	<u>66</u>
Total Volume Removed:	(ml) <u>8.6 L</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	
<u>VOCs</u>	☒
<u>SIDS</u>	☒
<u>Metals</u>	☒
<u>CU</u>	☒
Sample ID:	<u>MW-16D</u>
Sample Time:	<u>820</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	
Total Bottles:	<u>6</u>

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: vol Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quanta/Hoch

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>743</u>	<u>748</u>	<u>753</u>	<u>758</u>	<u>803</u>	<u>808</u>	<u>Bailer</u>	<u>Fuel</u>	
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	<u>9.86</u>	<u>9.84</u>	<u>9.84</u>	<u>9.84</u>	<u>9.84</u>	<u>9.84</u>	<u>9.81</u>		
Temperature (°C)	<u>14.17</u>	<u>14.18</u>	<u>13.45</u>	<u>13.84</u>	<u>13.73</u>	<u>14.01</u>	<u>14.13</u>		
pH	<u>7.14</u>	<u>6.97</u>	<u>6.95</u>	<u>6.92</u>	<u>6.91</u>	<u>6.92</u>	<u>7.22</u>		
Conductance (mS/cm)	<u>2.06</u>	<u>2.07</u>	<u>2.07</u>	<u>2.07</u>	<u>2.09</u>	<u>2.10</u>	<u>2.17</u>		
Dissolved Oxygen (mg/L)	<u>1.16</u>	<u>0.61</u>	<u>0.51</u>	<u>0.45</u>	<u>0.38</u>	<u>0.36</u>	<u>2.21</u>		
Turbidity (NTU)	<u>17.4</u>	<u>22.6</u>	<u>14.3</u>	<u>14.2</u>	<u>13.8</u>	<u>8.5</u>	<u>10.6</u>		
ORP (mV)	<u>Kate</u>	<u>300</u>	<u>200</u>	<u>130</u>	<u>130</u>	<u>130</u>			

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS
initial purge: clear no/o/sk. final same
Fuel WL - 8.81

SAMPLE DESTINATION		Sample was		Chain of Custody Signed By
Laboratory:	<u>STL - Buffalo</u>	☒ shipped day of sampling		<u>KPM</u>
Shipped Via:	☒ Federal Express ☐ Other: <u></u>	☐ sent on <u></u>		

Site: North Albany for National Grid
 GROUND-WATER SAMPLING LOG
 Event
 Fall Sampling

Event
Fall Sampling

Well ID: MW-175
Date: 11/13/02
Time In: 1030 Time Out: 1300

SAMPLING INFORMATION		
Analyses:		
<u>10X5</u>	☒	
<u>5 10X5</u>	☒	
<u>infiltr</u>	☒	
<u>CN</u>	☒	
<u> </u>	☐	
<u> </u>	☐	
Sample ID:	<u>mw-175</u>	
Sample Time:	<u>11 35</u>	
MS/MSD:	Yes ☒ No ☐	
Duplicate:	Yes ☒ No ☒	
Duplicate ID:	<u>DUP-1</u>	
Total Bottles:	<u>18</u>	

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐ _____

Tubing Used: Teflon ☐ Polyethylene ☒ Grunfos ☐ Other Pump ☐ _____

Sampling Method: *DOES* Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐ _____

Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: *Quanta*

Time	1	2	3	4	5	6	7	8	9
Parameter	1050 Initial	1055	1100	1105	1110	1115	1120	1125	1130
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61
Temperature (°C)	14.01	13.92	13.88	13.97	13.95	13.99	13.90	13.91	13.91
pH	6.06	6.04	6.07	6.08	6.10	6.14	6.29	6.26	6.26
Conductance (mS/cm)	0.0207	0.038	0.013	0.012	0.017	0.013	0.011	0.012	0.012
Dissolved Oxygen (mg/L)	0.38	0.34	0.29	0.24	0.24	0.22	0.34	0.22	0.22
Turbidity (NTU)	5	5	3	3	3	3	3	3	3
ORP (mV)	325	325	250	240	250	250	250	250	250

Time	10	11	12
Parameter	<i>Fred para.</i>		
Volume Pumped (ml)			
Depth to Water (ft. TIC)	<i>11.61</i>		
Temperature (°C)	<i>13.66</i>		
pH	<i>6.74</i>		
Conductance (mS/cm)	<i>1.92</i>		
Dissolved Oxygen (mg/L)	<i>0.92</i>		
Turbidity (NTU)	<i>14</i>		
ORP (mV)	<i>NA</i>		

MISCELLANEOUS OBSERVATIONS/PROBLEMS

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial : very clear ~ 0/sk visible -
final : " " was a very
FWL - 11-44 slight steam
in bucket
prize
water

SAMPLE DESTINATION
 Laboratory: STL - Buffalo Sample was ☒ shipped day of sampling Chain of Custody Signed By: _____
 Shipped Via: ☒ Federal Express ☐ Other: _____ ☐ sent on _____ KPM _____

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: KPM/AMB
Job Number: 3712-08-006
Weather: cloudy, hot rain, clearing 50°

Well ID: MW-170
Date: 11/13/02
Time In: 1045 Time Out: 1345

WELL INFORMATION		TIC	TOC	BGS
Depth to Water (feet)		<u>11.84</u>		
Total Depth (feet)		<u>25.23</u>		
Screened Interval (feet)		<u>18.7-28.2</u>		
<u>pump intake at 18.5</u>				

check where appropriate
Well Type: ☒ Flushmount ☐ Stick-Up
Well Locked: ☒ Yes ☐ No
Measuring Point Marked: ☒ Yes ☐ No
Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>13.39</u>
Volume of Water in Well: (gal)	<u>2.2</u>
Pumping Rate of Pump: (mL/min)	
Pump Start: <u>11:10</u>	Pump Stop: <u>13:28</u>
Minutes of Pumping: <u>2 18</u>	
Total Volume Removed: (ml)	<u>2.3 gal</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	8" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	
<u>VOCS</u>	☒
<u>SVOCs</u>	☒
<u>Metals</u>	☒
<u>Cyanide</u>	☒
Sample ID:	<u>MW-170</u>
Sample Time:	<u>1245</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	
Total Bottles:	

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used: Teflon ☐ Polyethylene ☒
Sampling Method: VOCS Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quanta/Hach

Time	1 1110	2 1115	3 1120	4 1125	5 1130	6 1135	7 1140	8 1145	9 1150
Parameter	Initial								
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	<u>11.95</u>	<u>11.95</u>	<u>11.86</u>	<u>11.86</u>	<u>11.86</u>	<u>11.86</u>	<u>11.86</u>	<u>11.86</u>	<u>11.86</u>
Temperature (°C)	<u>13.39</u>	<u>13.34</u>	<u>12.72</u>	<u>12.86</u>	<u>12.80</u>	<u>12.77</u>	<u>12.84</u>	<u>12.78</u>	<u>12.41</u>
pH	<u>7.14</u>	<u>7.11</u>	<u>7.13</u>	<u>7.14</u>	<u>7.15</u>	<u>7.14</u>	<u>7.15</u>	<u>7.15</u>	<u>7.15</u>
Conductance (mS/cm)	<u>2.79</u>	<u>2.79</u>	<u>2.79</u>	<u>2.79</u>	<u>2.78</u>	<u>2.79</u>	<u>2.78</u>	<u>2.78</u>	<u>2.78</u>
Dissolved Oxygen (mg/L)	<u>1.11</u>	<u>0.76</u>	<u>0.68</u>	<u>0.64</u>	<u>0.53</u>	<u>0.51</u>	<u>0.48</u>	<u>0.40</u>	<u>0.43</u>
Turbidity (NTU)	<u>603</u>	<u>436</u>	<u>321</u>	<u>303</u>	<u>229</u>	<u>227</u>	<u>190</u>	<u>157</u>	<u>137</u>
ORP (mV)	<u>Rel</u>	<u>150</u>	<u>90</u>	<u>90</u>	<u>80</u>	<u>70</u>	<u>70</u>	<u>70</u>	<u>70</u>

Time	10 1155	11 1200	12 1205
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)	<u>11.86</u>	<u>11.86</u>	<u>11.86</u>
Temperature (°C)	<u>12.05</u>	<u>12.14</u>	<u>12.10</u>
pH	<u>7.14</u>	<u>7.15</u>	<u>7.14</u>
Conductance (mS/cm)	<u>2.79</u>	<u>2.79</u>	<u>2.77</u>
Dissolved Oxygen (mg/L)	<u>6.42</u>	<u>0.40</u>	<u>0.39</u>
Turbidity (NTU)	<u>96</u>	<u>106</u>	<u>89</u>
ORP (mV)	<u>Rate</u>	<u>50</u>	<u>50</u>

MISCELLANEOUS OBSERVATIONS/PROBLEMS
Initial - moderately turbid no/pH
Final WZ: 11.84
pump kept ceasing at low flow rate

SAMPLE DESTINATION
Laboratory: STL - Buffalo
Shipped Via: ☐ Federal Express ☐ Other:
Sample was ☐ shipped day of sampling ☐ sent on
Chain of Custody Signed By: KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/AMB
 Job Number: 344 08 066
 Weather: _____

Well ID: MW-17D
 Date: 11/13/02
 Time In: _____ Time Out: _____

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)			
Total Depth (feet)			
Screened Interval (feet)			

check where appropriate
 Well Type: Flushmount ☐ Stick-Up ☐
 Well Locked: Yes ☐ No ☐
 Measuring Point Marked: Yes ☐ No ☐
 Well Diameter: 1" ☐ 2" ☐ Other: _____

WELL WATER INFORMATION	
Length of Water Column: (feet)	
Volume of Water in Well: (gal)	
Pumping Rate of Pump: (mL/min)	
Pump Start: _____ Pump Stop: _____	
Minutes of Pumping: _____	
Total Volume Removed: (ml)	

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐
 _____ ☐
 Sample ID: _____
 Sample Time: _____
 MS/MSD: Yes ☐ No ☐
 Duplicate: Yes ☐ No ☐
 Duplicate ID: _____
 Total Bottles: _____

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☐
 Sampling Method: Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☐ Water Quality Meter Type: _____

Time	1	2	3	4	5	6	7	8	9
Parameter	1210 Initial	1215	1220	1225	1230	1235	1240	1245	
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	11.86	11.86	11.86	11.86	11.86	11.86			
Temperature (°C)	12.66	12.62	12.47	12.84	12.50	12.39			
pH	7.29	7.17	7.16	7.16	7.16	7.16			
Conductance (mS/cm)	2.78	2.78	2.78	2.79	2.78	2.78			
Dissolved Oxygen (mg/L)	0.46	0.38	0.40	0.37	0.35	0.35			
Turbidity (NTU)	75	72	70	70	52	46			
ORP (mV)	261	50	50	50	50	50			

Time	10	11	12
Parameter	Final Draw		
Volume Purged (ml)			
Depth to Water (ft. TIC)	11.87		
Temperature (°C)	13.83		
pH	7.42		
Conductance (mS/cm)	2.79		
Dissolved Oxygen (mg/L)	3.39		
Turbidity (NTU)	47		
ORP (mV)	NA		

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☐ Federal Express ☐ Other: _____
 Sample was ☐ shipped day of sampling ☐ sent on _____
 Chain of Custody Signed By: _____
 KPM

Site: North Albany for National Grid
 GROUND-WATER SAMPLING LOG
 Event
 Fall Sampling

Sampling Personnel: KPM/HAB
Job Number: 316-08-006
Weather: cloudy, cool 48°

Well ID: 11W-183
Date: 11/13/02
Time In: 1435 Time Out: 1720

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	11.28		
Total Depth (feet)	16.00		
Screened Interval (feet)	7.5 - 17.0		

7.5 - 17.0 pump in take ~ 14.1

check where appropriate

Well Type: Flushmount ☒ Stick-Up ☐

Well Locked: Yes ☒ No ☐

Measuring Point Marked: Yes ☒ No ☐

Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION		
Length of Water Column:	(feet)	4.72
Volume of Water in Well:	(gal)	0.8 gal
Pumping Rate of Pump:	(mL/min)	
Pump Start:	1458	Pump Stop:
Minutes of Pumping:		1710
Total Volume Removed:	(ml)	~132 gal

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic ft

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

<u>VOCs</u>	☒
<u>SIXES</u>	☒
<u>metals</u>	☒
<u>ben</u>	☒
_____	☐
_____	☐
_____	☐

Sample ID: mw-18's

Sample Time: 1610

MS/MSD: Yes ☐ No ☒

Duplicate: Yes ☐ No ☒

Duplicate ID: _____

Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐

Tubing Used: Teflon ☐ Polyethylene ☒ Grunfos ☐

Sampling Method: 100% Bailer ☒ Peristaltic ☒ Grunfos ☐

Did well go dry? Yes ☐ No ☒ Water ☐

Water Quality Meter Type:

Time Parameter	1 1502 Initial	2 1507	3 1512	4 1517	5 1522	6 1527	7 1532	8 1537	9 1542
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	11.45	11.44	11.44	11.45	11.45	11.45	11.45	11.45	11.44
Temperature (°C)	13.36	13.74	13.64	13.41	13.41	13.37	13.13	12.96	13.11
pH	6.48	6.36	6.34	6.36	6.39	6.39	6.41	6.41	6.42
Conductance (mS/cm)	0.210	0.207	0.239	0.260	0.274	0.236	0.264	0.266	0.238
Dissolved Oxygen (mg/L)	0.96	0.55	0.49	0.49	0.49	0.43	0.46	0.50	0.47
Turbidity (NTU)	Flushing	602	391	329	237	174	135	133	129
DO Sat	100	150	150	150	100	100	100	100	100

Time	¹⁰	¹¹	¹²
Parameter	1547	1552	1557
Volume Purged (ml)			
Depth to Water (ft. TIC)	11.43	11.43	11.43
Temperature (°C)	12.76	12.65	13.03
pH	6.42	6.44	6.42
Conductance (mS/cm)	0.269	0.200	0.160
Dissolved Oxygen (mg/L)	0.43	0.45	0.45
Turbidity (NTU)	90	90	61
ORP (mV)	Rel: 50	50	50

MISCELLANEOUS OBSERVATIONS/PROBLEMS
initial: very turbid, petroleum
odor, no sheen
final: clear ~~to slightly~~ slightly
petr. odor
final wt: 11.32

SAMPLE DESTINATION
 Laboratory: STL - Buffalo Sample was ☒ shipped day of sampling Chain of Custody Signed By: _____
 Shipped Via: ☒ Federal Express ☐ Other: _____ ☐ sent on _____ KPM

1-2

2 of 2

Site: North Albany for National Grid
 GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/AMB
 Job Number:
 Weather:
 Well ID: MW-185
 Date: 11/13/02
 Time In: Time Out:

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)			
Total Depth (feet)			
Screened Interval (feet)			

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☐

Well Locked: Yes ☐ No ☐

Measuring Point Marked: Yes ☐ No ☐

Well Diameter: 1" ☐ 2" ☐ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	
Volume of Water in Well: (gal)	
Pumping Rate of Pump: (mL/min)	
Pump Start:	Pump Stop:
Minutes of Pumping:	
Total Volume Removed: (ml)	

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	8" ID
of water column:	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	☐
	☐
	☐
	☐
	☐
	☐
Sample ID:	
Sample Time:	
MS/MSD:	Yes ☐ No ☐
Duplicate:	Yes ☐ No ☐
Duplicate ID:	
Total Bottles:	

EVACUATION INFORMATION	
Evacuation Method:	Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐
Tubing Used:	Teflon ☐ Polyethylene ☐
Sampling Method:	Bailer ☐ Peristaltic ☐ Grunfos ☐ Other Pump ☐
Did well go dry?	Yes ☐ No ☐
Water Quality Meter Type: ☐	

Time	1	2	3	4	5	6	7	8	9
Parameter	1602 Initial	1607	1612	1617	Final Para-Bail				
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	11.43	11.43			11.43				
Temperature (°C)	13.11	13.17			13.08				
pH	6.40	6.50			6.67				
Conductance (mS/cm)	0.149	0.156			0.236				
Dissolved Oxygen (mg/L)	0.44	0.47			0.60				
Turbidity (NTU)	43	30							
ORP (mV) Rate	50	50	50	50	NA				

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION	
Laboratory:	STL - Buffalo
Shipped Via:	☐ Federal Express ☐ Other: ☐
Sample was	☐ shipped day of sampling ☐ sent on ☐
Chain of Custody Signed By KPM	

2-2

Site: North Albany for National Grid
 Event: Fall Sampling
 GROUND-WATER SAMPLING LOG

Sampling Personnel: KPM/2015
 Job Number: 266-08-006
 Weather: cloudy cool 42°

Well ID: MW-185 - replacement for broken bottles
 Date: 11/19/02
 Time In: 1025 Time Out: 1240

WELL INFORMATION		TIC		TOC		BGS	
Depth to Water	(feet)	10.23					
Total Depth	(feet)	15.52					
Screened Interval	(feet)	12-8 intake					

check where appropriate

Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☒ 2" ☐ Other: ☐

WELL WATER INFORMATION	
Length of Water Column:	(feet) 5.29
Volume of Water In Well:	(gal) 0.8 gal
Pumping Rate of Pump:	(mL/min)
Pump Start:	1042 Pump Stop: 1229
Minutes of Pumping:	
Total Volume Removed:	(ml)

Conversion Factors				
gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	SVALS ☒ only
Sample ID:	MW-185
Sample Time:	1210
MS/MSO:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	
Total Bottles:	

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quanta/HFSi

Time	1 1045	2 1051	3 1110	4 1120	5 1130	6 1140	7 1146	8 1155	9 1158
Parameter	Initial	Initial	Initial	Initial	Initial	Initial	Initial	Initial	Initial
Volume Purged (mL)	440	440	200 10.76	200	120	320	120	120	120
Depth to Water (ft. TIC)	10.78	10.83	10.76	10.76	10.60	10.73	10.65	10.58	10.58
Temperature (°C)	14.34	14.39	13.91	14.12	13.62	14.41	13.98	13.73	13.90
pH	6.63	6.55	6.56	6.50	6.58	6.54	6.55	6.57	6.56
Conductance (mS/cm)	0.434	0.543	0.492	0.519	0.476	0.794	0.629	0.579	0.590
Dissolved Oxygen (mg/L)	2.69	0.98	1.11	0.99	1.40	0.62	0.64	1.16	1.28
Turbidity (NTU)	309	417	234/166	130	174	184	133	47.4	42.6
ORP (mV)	284	274	266	261	258	248	244	245	245

Time	10 1202	11 Baily Final	12
Parameter	Initial	Initial	Initial
Volume Purged (mL)	120	—	—
Depth to Water (ft. TIC)	10.58	10.26	—
Temperature (°C)	13.76	14.42	—
pH	6.54	6.99	—
Conductance (mS/cm)	0.590	1.003	—
Dissolved Oxygen (mg/L)	1.20	2.41	—
Turbidity (NTU)	35.2	67.2	—
ORP (mV)	244	236	—

MISCELLANEOUS OBSERVATIONS/PROBLEMS

initial: red/br organic turbid sl. odor
 final: clear, al. odor.

Final WL: 10.26

SAMPLE DESTINATION		Sample was		Chain of Custody Signed By:
Laboratory:	STL - Buffalo	☒ shipped day of sampling	☐ sent on	KPM
Shipped Via:	☒ Federal Express ☐ Other:			

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: KPM/AMB
Job Number: 366 08.006
Weather: SUNNY
Well ID: MW-19D
Date: 11/14/02
Time In: 9:55 Time Out: 1:55

WELL INFORMATION		TIC		TOC		BGS	
Depth to Water	(feet)	<u>7.92</u>					
Total Depth	(feet)	<u>24.65</u>					
Screened Interval	(feet)	<u>14.5-24.00</u>					

check where appropriate

Well Type: ☐ Flushmount ☐ Stick-Up

Well Locked: Yes ☐ No ☐

Measuring Point Marked: Yes ☐ No ☐

Well Diameter: 1" ☐ 2" ☐ Other: ☐

WELL WATER INFORMATION	
Length of Water Column:	(feet) <u>16.73</u>
Volume of Water in Well:	(gal) <u>2.72</u>
Pumping Rate of Pump:	(mL/min) <u>1.75</u>
Pump Start:	<u>10:10</u> Pump Stop: <u>11:45</u>
Minutes of Pumping:	<u>95</u>
Total Volume Removed:	(ml) <u>11.9 L</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	8" ID
of water column:	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft				

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	☐ <u>17CS</u> ☒ <u>SWCS</u> ☒ <u>Metals</u> ☒ <u>Ca</u>
Sample ID:	<u>MW-19D</u>
Sample Time:	<u>1045</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	
Total Bottles:	<u>6</u>

EVACUATION INFORMATION	
Evacuation Method:	Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used:	Teflon ☐ Polyethylene ☒ Grunfos ☐ Other Pump ☐
Sampling Method:	Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry?	Yes ☐ No ☒
Water Quality Meter Type:	<u>Quantal/Hand</u>

Time	1	2	3	4	5	6	7	8	9
Parameter	Initial	<u>1015</u>	<u>1020</u>	<u>1025</u>	<u>1030</u>	<u>1035</u>	<u>1040</u>	<u>Final</u>	
Volume Purged (ml)	Initial							<u>8.10</u>	
Depth to Water (ft. TIC)	<u>8.35</u>	<u>8.13</u>	<u>8.10</u>	<u>8.10</u>	<u>8.10</u>	<u>8.10</u>	<u>8.10</u>	<u>8.10</u>	<u>8.10</u>
Temperature (°C)	<u>14.75</u>	<u>14.76</u>	<u>14.74</u>	<u>14.71</u>	<u>14.70</u>	<u>14.69</u>	<u>14.75</u>	<u>14.87</u>	
pH	<u>6.51</u>	<u>6.29</u>	<u>6.22</u>	<u>6.20</u>	<u>6.21</u>	<u>6.20</u>	<u>6.20</u>	<u>6.30</u>	
Conductance (mS/cm)	<u>0.000</u>	<u>0.001</u>	<u>0.001</u>	<u>0.001</u>	<u>0.001</u>	<u>0.001</u>	<u>0.001</u>	<u>0.002</u>	
Dissolved Oxygen (mg/L)	<u>0.68</u>	<u>0.79</u>	<u>0.44</u>	<u>0.38</u>	<u>0.34</u>	<u>0.33</u>	<u>0.33</u>	<u>0.52</u>	
Turbidity (NTU)	<u>13</u>	<u>4</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>3</u>	
ORP (mV)	<u>150</u>	<u>150</u>	<u>150</u>	<u>125</u>	<u>125</u>	<u>125</u>	<u>125</u>	<u>NA</u>	

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION		Sample was		Chain of Custody Signed By:
Laboratory:	<u>STL - Buffalo</u>	☒ shipped day of sampling		<u>KPM</u>
Shipped Via:	☒ Federal Express ☐ Other: <u></u>	☐ sent on <u></u>		

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: KPM/AMP
Job Number: 366.08.006
Weather: cloudy, warm, 70°
Well ID: MW-20D
Date: 11/11/02
Time In: 1530 Time Out: 1720

WELL INFORMATION		TIC		TOC		BGS	
Depth to Water	(feet)	7.35					
Total Depth	(feet)	21.57					
Screened Interval	(feet)	11.4-20.9					

check where appropriate
Well Type: ☒ Flushmount ☐ Stick-Up
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION

Length of Water Column:	(feet)	14.22
Volume of Water in Well:	(gal)	2.3
Pumping Rate of Pump:	(mL/min)	150
Pump Start:	1607	Pump Stop: 1702
Minutes of Pumping:		55
Total Volume Removed:	(ml)	8.3 L

Conversion Factors

	1" ID	2" ID	4" ID	6" ID
gallons per foot of water column:	0.041	0.163	0.653	1.489

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: VOCS ☒
SVOCs ☒
metals ☒
CN ☒
Sample ID: MW-20D
Sample Time: 1647
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: 6
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: ☐ Bailor ☒ Peristaltic ☐ Grunfos ☐ Other Pump ☐
Tubing Used: ☒ Teflon ☒ Polyethylene ☐
Sampling Method: ☒ Bailor ☒ Peristaltic ☐ Grunfos ☐ Other Pump ☐
Did well go dry? Yes ☐ No ☒
Water Quality Meter Type: Quantal/Hoch

Time	1	2	3	4	5	6	7	8	9
Parameter	Initial	16:21	16:26	16:31	16:36	16:41	16:46		
Volume Purged (ml)	Initial								
Depth to Water (ft. TIC)	7.85	7.47	7.47	7.47	7.47	7.47	7.47		
Temperature (°C)	13.69	13.69	13.73	13.67	13.66	13.67	13.69		
pH	6.62	6.61	6.60	6.60	6.60	6.61	6.60		
Conductance (mS/cm)	0.742	0.766	0.731	0.703	0.710	0.700	0.690		
Dissolved Oxygen (mg/L)	0.60	0.50	0.33	0.39	0.42	0.43	0.41		
Turbidity (NTU)	8	6	8	2	2	2	2		
ORP (mV)	17								

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

initial purge - red/bk. organic prec.
final - clear, no o/sh
final WL = 7.40

SAMPLE DESTINATION

Laboratory: STL - Buffalo
Shipped Via: ☒ Federal Express ☐ Other: _____
Sample was ☒ shipped day of sampling ☐ sent on _____
Chain of Custody Signed By: KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: RDK
Job Number: 3166-08-000
Weather: OVERCAST, Partly Sunny, M-S 40s
Well ID: MW-21R
Date: 11/20/02
Time In: 0710 Time Out: 1230

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>12.71</u>	<u>---</u>	<u>---</u>
Total Depth (feet)	<u>50.28</u>	<u>---</u>	<u>---</u>
Screened Interval (feet)	<u>---</u>	<u>---</u>	<u>40.4-49.9</u>

check where appropriate
Well Type: Flushmount ☒ Stick-Up ☐
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>37.57</u>
Volume of Water in Well: (gal)	<u>0.1641</u>
Pumping Rate of Pump: (mL/min)	<u>15</u>
Pump Start: <u>0710</u> Pump Stop: <u>1100 (SAMPLE)</u>	
Minutes of Pumping: <u>222</u>	
Total Volume Removed: (ml)	<u>3300 / 0.8641</u>

Conversion Factors

	1" ID	2" ID	4" ID	6" ID
gallons per foot of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

TCL VOCs	☒
TCL SVOCs	☒
TAL METALS	☒
CU	☒
TCL PEST	☒

Sample ID: MW-21R
Sample Time: 1100
*MS/MSD: Yes ☒ No ☐
*Duplicate: Yes ☒ No ☐
*Duplicate ID: AP-3
Total Bottles: 9

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used: Teflon ☐ Polyethylene ☒
Sampling Method: (VACS) Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry? Yes ☐ No ☒
Water Quality Meter Type: QUANTA HYDROLIS w/ DIAPHRAGMATIC

Time	1 0740	2 0800	3 0815	4 0830	5 0845	6 0900	7 0915	8 0930	9 0945
Parameter	Initial								
Volume Purged (ml)	Initial	300	525	750	975	1200	1425	1650	1875
Depth to Water (ft. TIC)	<u>13.45</u>	<u>13.58</u>	<u>13.60</u>	<u>13.69</u>	<u>13.77</u>	<u>13.81</u>	<u>13.86</u>	<u>13.93</u>	<u>13.96</u>
Temperature (°C)	<u>3.21</u>	<u>3.40</u>	<u>3.05</u>	<u>3.04</u>	<u>3.26</u>	<u>3.34</u>	<u>3.62</u>	<u>4.13</u>	<u>4.45</u>
pH	<u>7.91</u>	<u>7.83</u>	<u>7.89</u>	<u>7.91</u>	<u>7.95</u>	<u>7.98</u>	<u>8.00</u>	<u>8.03</u>	<u>8.03</u>
Conductance (mS/cm)	<u>0.542</u>	<u>0.577</u>	<u>0.492</u>	<u>0.838</u>	<u>0.823</u>	<u>0.762</u>	<u>0.785</u>	<u>0.812</u>	<u>0.807</u>
Dissolved Oxygen (mg/L)	<u>10.84</u>	<u>8.53</u>	<u>8.87</u>	<u>8.57</u>	<u>8.31</u>	<u>8.27</u>	<u>8.20</u>	<u>8.04</u>	<u>7.89</u>
Turbidity (NTU)	<u>17</u>	<u>8</u>	<u>7</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>4</u>	<u>3</u>	<u>3</u>
ORP (mV)	<u>348</u>	<u>374</u>	<u>379</u>	<u>382</u>	<u>382</u>	<u>381</u>	<u>379</u>	<u>375</u>	<u>372</u>

Time	10 1000	11 1015	12 1030
Parameter			
Volume Purged (ml)	<u>2100</u>	<u>2325</u>	<u>2550</u>
Depth to Water (ft. TIC)	<u>14.00</u>	<u>14.09</u>	<u>14.18</u>
Temperature (°C)	<u>4.45</u>	<u>5.58</u>	<u>5.45</u>
pH	<u>8.05</u>	<u>8.06</u>	<u>8.09</u>
Conductance (mS/cm)	<u>0.845</u>	<u>0.880</u>	<u>0.817</u>
Dissolved Oxygen (mg/L)	<u>7.49</u>	<u>6.96</u>	<u>7.10</u>
Turbidity (NTU)	<u>3</u>	<u>3</u>	<u>3</u>
ORP (mV)	<u>366</u>	<u>360</u>	<u>352</u>

MISCELLANEOUS OBSERVATIONS/PROBLEMS

INITIAL PURGE H2O CLEAR, COLORLESS, NO ODS
FINAL PURGE H2O CLEAR, COLORLESS, NO ODS
* TUBING INSTALLED MID SCREEN 11/11/02
- SAMPLED MID SCREEN w/ PERISTALTIC PUMP
i DEDICATED, DISP. PE BAILER

SAMPLE DESTINATION

Laboratory: STL - Buffalo
Shipped Via: ☒ Federal Express ☐ Other: ☐
Sample was ☒ shipped day of sampling
sent on 11/21/02
Chain of Custody Signed By: KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: RDK
Job Number: 366-08-006
Weather: OVERCAST, Partly Sunny, MID 40's

Well ID: MW-21R
Date: 11/20/02
Time In: 0710 Time Out: 1730

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	<u>12.71</u>	<u>---</u>	<u>---</u>
Total Depth (feet)	<u>50.28</u>	<u>---</u>	<u>---</u>
Screened Interval (feet)	<u>---</u>	<u>---</u>	<u>40.4-49.9</u>

check where appropriate
Well Type: Flushmount ☒ Stick-Up ☐
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>32.57</u>
Volume of Water in Well: (gal)	<u>6.1 GAL</u>
Pumping Rate of Pump: (mL/min)	<u>15</u>
Pump Start: <u>0710</u>	Pump Stop: <u>1100 SAMPLE</u>
Minutes of Pumping: <u>222</u>	
Total Volume Removed: (ml)	<u>3000 / 0.86A1</u>

Conversion Factors				
gallons per feet	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.489
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				
Unit Stability				
pH	DO	Cond	ORP	
± 0.1	± 10%	± 3.0%	± 10 mV	

SAMPLING INFORMATION	
Analyses:	
TCI VOCs	☒
TCI SVOCs	☒
TAH METALS	☒
CN-	☒
TCIPCBs	☒
Sample ID:	<u>MW-21R</u>
Sample Time:	<u>1100</u>
*MS/MSD:	Yes ☒ No ☐
*Duplicate:	Yes ☒ No ☐
*Duplicate ID:	<u>dup-3</u>
Total Bottles:	<u>9</u>

EVACUATION INFORMATION
Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used: Teflon ☐ Polyethylene ☒
Sampling Method: URS Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry? Yes ☐ No ☒

*AP3: MS/MSD FOR TCI PCBs ONLY
QUANTA HYDROLAB w/ FLOW THROUGH CELL
Water Quality Meter Type: HACH 2100 P TURBIDITY METER

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>1045</u>	<u>1100</u>		<u>PARAMETERS</u>					
Volume Purged (ml)	<u>2775</u>	<u>3000</u>		<u>N/A</u>					
Depth to Water (ft. TIC)	<u>14.21</u>	<u>14.25</u>		<u>N/A</u>					
Temperature (°C)	<u>6.43</u>	<u>6.83</u>		<u>12.37</u>					
pH	<u>8.10</u>	<u>8.11</u>		<u>7.98</u>					
Conductance (mS/cm)	<u>0.756</u>	<u>0.747</u>		<u>0.912</u>					
Dissolved Oxygen (mg/L)	<u>6.86</u>	<u>6.89</u>		<u>N/A</u>					
Turbidity (NTU)	<u>3</u>	<u>3</u>		<u>15</u>					
ORP (mV)	<u>345</u>	<u>340</u>		<u>308</u>					

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS
FINAL PURGE H2O CLEAR, COLORLESS, ODORLESS
* TUBING INSTALLED MID SCREEN 11/19/02
- SAMPLED MIDSCREEN w/ PERISTALTIC PUMP
? DEDICATED, DISP. PE BAILER.

SAMPLE DESTINATION
Laboratory: STL - Buffalo
Shipped Via: ☒ Federal Express ☐ Other: ☐
Sample was ☒ shipped day of sampling 11/21/02
Chain of Custody Signed By: KPM

Site: North Albany for National Grid

GROUND-WATER SAMPLING LOG

Event
Fall SamplingSampling Personnel: ADKJob Number: 3166-08-006Weather: OVERCAST, YDSWell ID: MMW-215(R)Date: 11/19/02Time In: 1000Time Out: 1200

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>12.48</u>	<u>—</u>	<u>—</u>
Total Depth (feet)	<u>17.97</u>	<u>—</u>	<u>—</u>
Screened Interval (feet)	<u>—</u>	<u>—</u>	<u>8.4-12.8</u>

check where appropriate

Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: —

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>5.49</u>
Volume of Water in Well: (gal)	<u>0.9</u>
Pumping Rate of Pump: (mL/min)	<u>250</u>
Pump Start: <u>1041</u>	Pump Stop: <u>1130 (SAMPLE)</u>
Minutes of Pumping: <u>49</u>	
Total Volume Removed: (ml)	<u>9000 / 2.4 gal</u>

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: TEL VOCs ☒
TEL SVOCs ☒
TAL METALS ☒
CU ☒
 Sample ID: MMW-215
 Sample Time: 1130
 MS/MSD: Yes ☐ No ☒
 Duplicate: Yes ☐ No ☒
 Duplicate ID: N/A
 Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: (VACS) Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☒
 QUANTA HYDROLAB w/ FLOW THROUGH CELL
 Water Quality Meter Type: WACH 2100P TURBIDITY METER

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>1047</u>	<u>1050</u>	<u>1055</u>	<u>1100</u>	<u>1105</u>	<u>1110</u>	<u>1115</u>	<u>1120</u>	<u>1125</u>
Volume Purged (ml)	Initial	<u>750</u>	<u>2000</u>	<u>3000</u>	<u>4000</u>	<u>5000</u>	<u>6000</u>	<u>7000</u>	<u>8000</u>
Depth to Water (ft. TIC)	<u>12.69</u>	<u>12.72</u>	<u>12.75</u>	<u>12.76</u>	<u>12.76</u>	<u>12.74</u>	<u>12.76</u>	<u>12.76</u>	<u>12.76</u>
Temperature (°C)	<u>9.65</u>	<u>11.62</u>	<u>11.92</u>	<u>11.81</u>	<u>11.90</u>	<u>11.85</u>	<u>12.08</u>	<u>12.09</u>	<u>12.17</u>
pH	<u>6.53</u>	<u>6.38</u>	<u>6.24</u>	<u>6.23</u>	<u>6.24</u>	<u>6.24</u>	<u>6.24</u>	<u>6.26</u>	<u>6.26</u>
Conductance (mS/cm)	<u>1.202</u>	<u>0.888</u>	<u>0.796</u>	<u>0.812</u>	<u>0.812</u>	<u>0.868</u>	<u>0.898</u>	<u>0.891</u>	<u>0.930</u>
Dissolved Oxygen (mg/L)	<u>5.41</u>	<u>2.69</u>	<u>2.02</u>	<u>1.54</u>	<u>1.06</u>	<u>0.76</u>	<u>0.59</u>	<u>0.53</u>	<u>0.47</u>
Turbidity (NTU)	<u>86</u>	<u>27</u>	<u>15</u>	<u>8</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>1</u>
ORP (mV)	<u>293</u>	<u>293</u>	<u>301</u>	<u>303</u>	<u>307</u>	<u>310</u>	<u>314</u>	<u>315</u>	<u>318</u>

Time	10	11	12
Parameter	<u>1130</u>	<u>(Final BAIL)</u>	
Volume Purged (ml)	<u>9000</u>	<u>N/A</u>	
Depth to Water (ft. TIC)	<u>12.76</u>	<u>N/A</u>	
Temperature (°C)	<u>11.99</u>	<u>11.87</u>	
pH	<u>6.28</u>	<u>6.21</u>	
Conductance (mS/cm)	<u>0.940</u>	<u>0.923</u>	
Dissolved Oxygen (mg/L)	<u>0.42</u>	<u>N/A</u>	
Turbidity (NTU)	<u>1</u>	<u>34</u>	
ORP (mV)	<u>320</u>	<u>348</u>	

MISCELLANEOUS OBSERVATIONS/PROBLEMS

INITIAL PURGE H2O CLEAR, COLORLESS, ODORLESS, SLIGHT SUSPENDED SOLIDS
 FINAL PURGE H2O CLEAR, COLORLESS, ODORLESS
 - SLOWED PURGE RATE TO 200 mL/MIN @ 1055
 - SAMPLED MID SECTION OF SATURATED ZONE
 OF SCREEN w/ PERISTALTIC PUMP; DISPOSABLE, DISPOSABLE
 AS BAILER

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: —

Sample was ☒ shipped day of sampling
☐ sent on —

Chain of Custody Signed By:

KPM

Sampling Personnel: DX
Job Number: 3100-DB-006
Weather: OVERCAST, 40°
Well ID: MID-210
Date: 11/9/02
Time In: 12:50 Time Out: 1:50

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>12.86</u>	<u>---</u>	<u>---</u>
Total Depth (feet)	<u>33.65</u>	<u>---</u>	<u>---</u>
Screened Interval (feet)	<u>---</u>	<u>---</u>	<u>23.9-33.4</u>

check where appropriate
Well Type: Flushmount ☒ Stick-Up ☐
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>20.79</u>
Volume of Water in Well: (gal)	<u>3.46</u>
Pumping Rate of Pump: (mL/min)	<u>225</u>
Pump Start: <u>1304</u> Pump Stop: <u>1410 (SAMPLE)</u>	
Minutes of Pumping: <u>60</u>	
Total Volume Removed: (ml)	<u>14,400 / 3.86</u>

Conversion Factors

gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: TC1 VOCs ☒
TC1 SVOCs ☒
TA1 METALS ☒
CU ☒
--- ☐
--- ☐
--- ☐
Sample ID: MID-210
Sample Time: 1410
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: N/A
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used: Teflon ☐ Polyethylene ☒
Sampling Method: Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry? Yes ☐ No ☒
QUANTA HYDROLAB w/ FORTHMAN HCE1
Water Quality Meter Type: HACH 2100P TURBIDITY METER

Time	1 1306	2 1310	3 1315	4 1320	5 1330	6 1335	7 1340	8 1345	9 1350
Parameter	Initial								
Volume Purged (ml)	Initial	900	2025	3150	5400	6525	7650	8775	9900
Depth to Water (ft. TIC)	12.88	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89
Temperature (°C)	11.07	11.59	11.59	11.65	11.60	11.62	11.65	11.61	11.54
pH	6.66	6.73	6.77	6.80	6.81	6.81	6.80	6.81	6.81
Conductance (mS/cm)	2.89	2.92	2.85	3.00	3.00	3.00	3.01	3.00	3.00
Dissolved Oxygen (mg/L)	2.80	0.84	0.94	0.29	0.21	0.20	0.19	0.18	0.18
Turbidity (NTU)	137	84	55	38	11	11	7	7	7
ORP (mV)	347	281	200	171	145	144	139	137	134

Time	10 1355	11 1400	12 1410	(FINAL) 1410
Parameter				
Volume Purged (ml)	11025	12150	14400	N/A
Depth to Water (ft. TIC)	12.89	12.89	12.89	N/A
Temperature (°C)	11.61	11.60	11.54	11.43
pH	6.81	6.81	6.82	6.76
Conductance (mS/cm)	3.00	3.00	3.00	2.93
Dissolved Oxygen (mg/L)	0.17	0.17	0.15	N/A
Turbidity (NTU)	6	4	5	37
ORP (mV)	132	130	128	137

MISCELLANEOUS OBSERVATIONS/PROBLEMS
INITIAL PURGE HAD IRON, BACTERIA, SOLIDS, COLORED, ODORLESS
FINAL PURGE HAD CLEAR, COLORED, ODORLESS
11.43 - SAMPLED MID SCREEN w/ PERISTALTIC PUMP;
DESIGNED / D LSP. PE BAILER

SAMPLE DESTINATION

Laboratory: STL - Buffalo
Shipped Via: ☒ Federal Express ☐ Other: ☐
Sample was ☒ shipped day of sampling ☐ sent on ☐
Chain of Custody Signed By: KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM / RDK
 Job Number: 36608006
 Weather: Sunny, clear, 40°
 Well ID: MW-22R
 Date: 11/28/02
 Time In: 7:50 Time Out: 10:00

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>12.64</u>		
Total Depth (feet)	<u>48.14</u>		
Screened Interval (feet)	<u>3.9-48.5</u>		

in take ~ 30'

check where appropriate

Well Type: ☐ Flushmount ☐ Stick-Up

Well Locked: Yes ☐ No ☒

Measuring Point Marked: Yes ☒ No ☐

Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>35.5</u>
Volume of Water in Well: (gal)	<u>58</u>
Pumping Rate of Pump: (mL/min)	
Pump Start: <u>8:20</u>	Pump Stop: <u>9:46</u>
Minutes of Pumping:	
Total Volume Removed: (ml)	

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

<u>VOCs</u>	☒
<u>SVOCs</u>	☒
<u>Metals</u>	☒
<u>CA</u>	☒

Sample ID: MW-22R

Sample Time: 9:20

MS/MSD: Yes ☐ No ☒

Duplicate: Yes ☐ No ☒

Duplicate ID: _____

Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: ☐ Bailor ☒ Peristaltic ☐ Grunfos ☐ Other Pump _____

Tubing Used: ☐ Teflon ☒ Polyethylene ☐ Grunfos ☐ Other Pump _____

Sampling Method: VOLs ☒ Bailor ☒ Peristaltic ☐ Grunfos ☐ Other Pump _____

Did well go dry? Yes ☐ No ☒

Water Quality Meter Type: Quanta / HF Sci

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>8:25</u>	<u>8:30</u>	<u>8:35</u>	<u>8:40</u>	<u>8:45</u>	<u>8:50</u>	<u>8:55</u>	<u>8:59</u>	<u>9:11</u>
Volume Pumped (ml)	<u>350.20</u>	<u>200</u>	<u>260</u>	<u>260</u>	<u>160</u>	<u>160</u>	<u>160</u>	<u>160</u>	<u>160</u>
Depth to Water (ft. TIC)	<u>13.94</u>	<u>13.95</u>	<u>14.92</u>	<u>14.72</u>	<u>14.62</u>	<u>14.48</u>	<u>14.24</u>	<u>14.18</u>	<u>14.16</u>
Temperature (°C)	<u>11.83</u>	<u>11.77</u>	<u>12.28</u>	<u>11.74</u>	<u>11.49</u>	<u>11.67</u>	<u>11.65</u>	<u>11.76</u>	<u>11.78</u>
pH	<u>11.92</u>	<u>12.01</u>	<u>12.02</u>	<u>11.94</u>	<u>11.98</u>	<u>12.00</u>	<u>11.97</u>	<u>11.93</u>	<u>11.87</u>
Conductance (mS/cm)	<u>0.000</u>	<u>0.000</u>	<u>0.001</u>	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>	<u>0.001</u>	<u>0.000</u>	<u>0.000</u>
Dissolved Oxygen (mg/L)	<u>3.64</u>	<u>2.92</u>	<u>2.73</u>	<u>2.57</u>	<u>2.50</u>	<u>2.43</u>	<u>2.35</u>	<u>2.26</u>	<u>2.11</u>
Turbidity (NTU)	<u>22.3</u>	<u>13.2</u>	<u>14.2</u>	<u>14.6</u>	<u>11.9</u>	<u>8.9</u>	<u>7.9</u>	<u>8.4</u>	<u>7.5</u>
ORP (mV)	<u>269</u>	<u>266</u>	<u>266</u>	<u>268</u>	<u>267</u>	<u>266</u>	<u>266</u>	<u>267</u>	<u>268</u>

Time	10	11	12
Parameter	<u>9:15</u>	<u>Final</u>	<u>Bale</u>
Volume Pumped (ml)	<u>160</u>		
Depth to Water (ft. TIC)	<u>14.17</u>	<u>13.59</u>	
Temperature (°C)	<u>11.83</u>	<u>12.25</u>	
pH	<u>11.74</u>	<u>9.19</u>	
Conductance (mS/cm)	<u>0.000</u>	<u>0.880</u>	
Dissolved Oxygen (mg/L)	<u>1.96</u>	<u>4.56</u>	
Turbidity (NTU)	<u>8.2</u>	<u>5.1</u>	
ORP (mV)	<u>269</u>	<u>295</u>	

MISCELLANEOUS OBSERVATIONS/PROBLEMS

initial purge: v. slightly turbid, no O/sh.

Final: clear, no O/sh

Final WL: 13.65

SAMPLE DESTINATION

Laboratory: STL - Buffalo

Shipped Via: ☒ Federal Express ☐ Other: _____

Sample was ☒ shipped day of sampling ☐ sent on _____

Chain of Custody Signed By: _____

KPM _____

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: DK
 Job Number: 366.08.006
 Weather: OVERCAST, Low 40's
 Well ID: MW-22D
 Date: 11/19/02
 Time In: 1450 Time Out: 1700

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	<u>12.41</u>	<u>---</u>	<u>---</u>
Total Depth (feet)	<u>33.35</u>	<u>---</u>	<u>---</u>
Screened Interval (feet)	<u>---</u>	<u>---</u>	<u>23.5-33.0</u>

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>2089</u>
Volume of Water in Well: (gal)	<u>3.4641</u>
Pumping Rate of Pump: (mL/min)	<u>300</u>
Pump Start: <u>1507</u> Pump Stop: <u>1630 (SAMPLE)</u>	
Minutes of Pumping: <u>83</u>	
Total Volume Removed: (ml)	<u>24,300 / 6.4641</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	
<u>TC1 VOCs</u>	☒
<u>TC1 SVOCs</u>	☒
<u>TA1 METALS</u>	☒
<u>CU</u>	☒
Sample ID:	<u>MW-22D</u>
Sample Time:	<u>1630</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	<u>N/A</u>
Total Bottles:	<u>12</u>

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: (LOCS) Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Old well go dry? Yes ☐ No ☒
 Water Quality Meter Type: QUANTA HYDROLAB/ION/MICROH (C11)
HACH 2100P TURBIDITY METER

Time	1	2	3	4	5	6	7	8	9
Parameter	Initial	1515	1520	1530	1540	1550	1600	1610	1620
Volume Purged (ml)	Initial	1800	3300	6300	9300	12300	15300	18300	21300
Depth to Water (ft. TIC)	<u>12.47</u>	<u>12.47</u>	<u>12.47</u>	<u>12.47</u>	<u>12.47</u>	<u>12.47</u>	<u>12.47</u>	<u>12.47</u>	<u>12.47</u>
Temperature (°C)	<u>11.64</u>	<u>12.19</u>	<u>12.21</u>	<u>12.21</u>	<u>12.21</u>	<u>12.24</u>	<u>12.18</u>	<u>12.16</u>	<u>12.18</u>
pH	<u>7.22</u>	<u>6.55</u>	<u>6.53</u>	<u>6.52</u>	<u>6.50</u>	<u>6.50</u>	<u>6.50</u>	<u>6.50</u>	<u>6.50</u>
Conductance (mS/cm)	<u>0.602</u>	<u>0.809</u>	<u>0.810</u>	<u>0.905</u>	<u>0.896</u>	<u>0.923</u>	<u>0.735</u>	<u>0.928</u>	<u>0.918</u>
Dissolved Oxygen (mg/L)	<u>7.55</u>	<u>0.31</u>	<u>0.23</u>	<u>0.18</u>	<u>0.17</u>	<u>0.17</u>	<u>0.16</u>	<u>0.15</u>	<u>0.15</u>
Turbidity (NTU)	<u>445</u>	<u>214</u>	<u>136</u>	<u>63</u>	<u>29</u>	<u>16</u>	<u>11</u>	<u>7</u>	<u>5</u>
ORP (mV)	<u>218</u>	<u>231</u>	<u>229</u>	<u>224</u>	<u>218</u>	<u>213</u>	<u>209</u>	<u>204</u>	<u>201</u>

Time	10	11	12
Parameter	1630	(FINAL BAILER)	
Volume Purged (ml)	<u>24300</u>	<u>N/A</u>	
Depth to Water (ft. TIC)	<u>12.47</u>	<u>N/A</u>	
Temperature (°C)	<u>12.19</u>	<u>12.07</u>	
pH	<u>6.48</u>	<u>6.39</u>	
Conductance (mS/cm)	<u>0.930</u>	<u>0.913</u>	
Dissolved Oxygen (mg/L)	<u>0.15</u>	<u>N/A</u>	
Turbidity (NTU)	<u>4</u>	<u>25</u>	
ORP (mV)	<u>198</u>	<u>199</u>	

MISCELLANEOUS OBSERVATIONS/PROBLEMS

INITIAL PARGE H2O LT GRAY, TURBID, ODOORLESS
 FINAL PARGE H2O CLEAR, COLORLESS, ODOORLESS
 - SAMPLES MID SCREEN w/ PERISTALTIC PUMP;
 DEDICATED, D.S.P. PER BAILER

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: ☐
 Sample was ☒ shipped day of sampling ☐ sent on ☐
 Chain of Custody Signed By: KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/RDK
 Job Number: 36608-006
 Weather: cloudy, cold 40°
 Well ID: 111W-225
 Date: 11/19/02
 Time In: 1350 Time Out: 1530

WELL INFORMATION		TIC		TOC		BGS	
Depth to Water	(feet)	<u>11.33</u>					
Total Depth	(feet)	<u>15.89</u>					
Screened Interval	(feet)	<u>6.8-16.3</u>					
		<u>intake ~ 13.5</u>					

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION	
Length of Water Column:	(feet) <u>4.56</u>
Volume of Water in Well:	(gal) <u>0.7</u>
Pumping Rate of Pump:	(mL/min)
Pump Start:	<u>1402</u> Pump Stop: <u>1505</u>
Minutes of Pumping:	
Total Volume Removed:	(ml)

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	
<u>VOCs</u>	☒
<u>SVOCs</u>	☒
<u>Metals</u>	☒
<u>CN</u>	☒
Sample ID:	<u>111W-225</u>
Sample Time:	<u>1450</u>
MS/MSD:	Yes ☐ No ☐
Duplicate:	Yes ☐ No ☐
Duplicate ID:	
Total Bottles:	

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: 10L Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☐ Water Quality Meter Type: _____

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>1408</u>	<u>1413</u>	<u>1418</u>	<u>1423</u>	<u>1438</u>	<u>1443</u>	<u>1448</u>	<u>Final</u>	
Volume Purged (ml)	<u>420</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>Final</u>	
Depth to Water (ft. TIC)	<u>11.77</u>	<u>11.92</u>	<u>11.94</u>	<u>11.98</u>	<u>12.01</u>	<u>12.06</u>	<u>12.09</u>	<u>11.60</u>	
Temperature (°C)	<u>14.29</u>	<u>14.23</u>	<u>14.26</u>	<u>14.22</u>	<u>14.17</u>	<u>14.22</u>	<u>14.32</u>	<u>13.35</u>	
pH	<u>6.60</u>	<u>6.53</u>	<u>6.51</u>	<u>6.56</u>	<u>6.52</u>	<u>6.52</u>	<u>6.54</u>	<u>6.79</u>	
Conductance (mS/cm)	<u>1.105</u>	<u>1.103</u>	<u>1.120</u>	<u>1.116</u>	<u>1.123</u>	<u>1.117</u>	<u>1.125</u>	<u>1.132</u>	
Dissolved Oxygen (mg/L)	<u>1.04</u>	<u>0.65</u>	<u>0.59</u>	<u>0.52</u>	<u>0.39</u>	<u>0.36</u>	<u>0.35</u>	<u>1.59</u>	
Turbidity (NTU)	<u>1.4</u>	<u>2.6</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>0.8</u>	<u>0.6</u>	<u>1.5</u>	
ORP (mV)	<u>288</u>	<u>290</u>	<u>291</u>	<u>291</u>	<u>293</u>	<u>294</u>	<u>294</u>	<u>302</u>	

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

initial purge: clear w/ 0.15h. Final same

Final WL: 11.62

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: _____
 Sample was ☒ shipped day of sampling ☐ sent on _____
 Chain of Custody Signed By: _____
 KPM

1207

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: AMB/KPM Well ID: MW-235
 Job Number: 346.0P.006 Date: 11/15/02
 Weather: Sunny, mild Time In: 715 Time Out: 845

WELL INFORMATION		TIC		TOC		BGS	
Depth to Water	(feet)	10.27					
Total Depth	(feet)	17.79					
Screened Interval	(feet)	10.2-19.7					
		15.02					

check where appropriate

Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☐ No ☒
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION	
Length of Water Column:	(feet) <u>7.52</u>
Volume of Water in Well:	(gal) <u>1.22</u>
Pumping Rate of Pump:	(mL/min) <u>1.75</u>
Pump Start:	Pump Stop: <u>832</u>
Minutes of Pumping:	<u>62</u>
Total Volume Removed:	(ml) <u>10.9L</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	☒
VOCs	☒
SVOs	☒
Metals	☒
CA	☒
Sample ID:	<u>MW-235</u>
Sample Time:	<u>815</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	
Total Bottles:	<u>60</u>

EVACUATION INFORMATION

Evacuation Method: Bailor ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: Bailor ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quanta/Hach

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>730</u>	<u>735</u>	<u>740</u>	<u>745</u>	<u>750</u>	<u>755</u>	<u>800</u>	<u>805</u>	<u>810</u>
Volume Purged (ml)	<u>325</u>	<u>200</u>	<u>175</u>	<u>175</u>	<u>175</u>	<u>175</u>	<u>175</u>	<u>175</u>	<u>175</u>
Depth to Water (ft. TIC)	<u>10.56</u>	<u>10.42</u>	<u>10.42</u>	<u>10.42</u>	<u>10.42</u>	<u>10.42</u>	<u>10.42</u>	<u>10.42</u>	<u>10.42</u>
Temperature (°C)	<u>16.80</u>	<u>16.67</u>	<u>16.54</u>	<u>16.48</u>	<u>16.49</u>	<u>16.44</u>	<u>16.39</u>	<u>16.39</u>	<u>16.44</u>
pH	<u>7.18</u>	<u>6.96</u>	<u>6.86</u>	<u>6.80</u>	<u>6.78</u>	<u>6.74</u>	<u>6.72</u>	<u>6.71</u>	<u>6.71</u>
Conductance (mS/cm)	<u>0.264</u>	<u>0.214</u>	<u>0.35</u>	<u>0.345</u>	<u>0.388</u>	<u>0.436</u>	<u>0.455</u>	<u>0.451</u>	<u>0.439</u>
Dissolved Oxygen (mg/L)	<u>0.89</u>	<u>0.60</u>	<u>0.52</u>	<u>0.44</u>	<u>0.40</u>	<u>0.36</u>	<u>0.35</u>	<u>0.33</u>	<u>0.32</u>
Turbidity (NTU)	<u>193</u>	<u>121</u>	<u>84</u>	<u>67</u>	<u>61</u>	<u>47</u>	<u>38</u>	<u>32</u>	<u>27</u>
ORP (mV)	<u>228</u>	<u>2176</u>	<u>1106</u>	<u>162</u>	<u>159</u>	<u>153</u>	<u>150</u>	<u>146</u>	<u>143</u>

Time	10	11	12
Parameter	<u>Final Porosity</u>		
Volume Purged (ml)	<u>NA</u>		
Depth to Water (ft. TIC)	<u>10.25</u>		
Temperature (°C)	<u>14.63</u>		
pH	<u>7.51</u>		
Conductance (mS/cm)	<u>0.000</u>		
Dissolved Oxygen (mg/L)	<u>1.61</u>		
Turbidity (NTU)	<u>260</u>		
ORP (mV)	<u>199</u>		

MISCELLANEOUS OBSERVATIONS/PROBLEMS

initial water turbid, no odor, no sheer
 final: clear, no o/sh

final w/L: 10.25

SAMPLE DESTINATION

Laboratory: STL - Buffalo Sample was ☐ shipped day of sampling Chain of Custody Signed By: _____
 Shipped Via: ☐ Federal Express ☐ Other: _____ ☐ sent on _____ KPM

Site: North Albany for National Grid
 GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/ROK
 Job Number: 366-08006
 Weather: cloudy, cold 40°

Well ID: MW-245
 Date: 11/18/02
 Time In: 1350 Time Out: 1535

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	<u>8.33</u>		
Total Depth (feet)	<u>817.84</u>		
Screened Interval (feet)			

Pump intake ~ 13'

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>9.21</u>
Volume of Water in Well: (gal)	<u>1.58</u>
Pumping Rate of Pump: (mL/min)	<u>1.80</u>
Pump Start: <u>1413</u>	Pump Stop: <u>1512</u>
Minutes of Pumping:	
Total Volume Removed: (ml)	

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	<u>VOCS</u> ☒ <u>S-VOCS</u> ☒ <u>metals</u> ☒ <u>CU</u> ☒
Sample ID:	<u>MW-245</u>
Sample Time:	<u>1455</u>
MS/MSO:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	
Total Bottles:	<u>6</u>

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: VOCS Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quanta/HF

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>1418</u>	<u>1425</u>	<u>1430</u>	<u>1435</u>	<u>1442</u>	<u>1447</u>	<u>1450</u>	<u>Final</u>	
Volume Pumped (ml)	<u>200</u>	<u>180</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	<u>Final</u>	
Depth to Water (ft. TIC)	<u>8.43</u>	<u>8.40</u>	<u>8.42</u>	<u>8.41</u>	<u>8.41</u>	<u>8.41</u>	<u>8.41</u>	<u>8.39</u>	
Temperature (°C)	<u>16.42</u>	<u>16.80</u>	<u>16.41</u>	<u>16.36</u>	<u>16.41</u>	<u>16.29</u>	<u>16.33</u>	<u>14.83</u>	
pH	<u>7.19</u>	<u>6.96</u>	<u>6.96</u>	<u>6.93</u>	<u>6.95</u>	<u>6.93</u>	<u>6.93</u>	<u>7.88</u>	
Conductance (mS/cm)	<u>2.71</u>	<u>2.71</u>	<u>2.64</u>	<u>2.58</u>	<u>2.53</u>	<u>2.53</u>	<u>2.52</u>	<u>2.03</u>	
Dissolved Oxygen (mg/L)	<u>1.09</u>	<u>0.46</u>	<u>0.41</u>	<u>0.35</u>	<u>0.32</u>	<u>0.31</u>	<u>0.29</u>	<u>3.58</u>	
Turbidity (NTU)	<u>51.9</u>	<u>41.4</u>	<u>31.6</u>	<u>30.7</u>	<u>27.6</u>	<u>20.1</u>	<u>19.7</u>	<u>135.9</u>	
ORP (mV)	<u>227</u>	<u>185</u>	<u>177</u>	<u>167</u>	<u>163</u>	<u>160</u>	<u>159</u>	<u>216</u>	

Time	10	11	12
Parameter			
Volume Pumped (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

moderately
 Initial purge: red/brown organic turbid (moderate)
 petroleum odor, no sheen
 Final: v. slightly turbid, odor, no sheen

Final WL: 8.39

SAMPLE DESTINATION

Laboratory: STL - Buffalo Sample was ☒ shipped day of sampling Chain of Custody Signed By: _____
 Shipped Via: ☒ Federal Express ☐ Other: _____ ☐ sent on _____ KPM

Sampling Personnel: KPM/ROK
 Job Number: 34628-000
 Weather: cloudy, cold 40°
 Well ID: MW-255
 Date: 11/18/02
 Time In: 1540 Time Out: 1730

WELL INFORMATION		check where appropriate	
	TIC	TOC	BGS
Depth to Water (feet)	<u>6.35</u>		
Total Depth (feet)	<u>18.29</u>		
Screened Interval (feet)	<u>9.4-18.7</u>		

pump intake ~ 12'

Well Type: ☒ Flushmount ☐ Stick-Up
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>11.94</u>
Volume of Water in Well: (gal)	<u>2.0 gal</u>
Pumping Rate of Pump: (mL/min)	<u>8.5</u>
Pump Start: <u>1600</u>	Pump Stop: <u>1720</u>
Minutes of Pumping:	<u>80</u>
Total Volume Removed: (ml)	<u>6.8 L</u>

Conversion Factors				
gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	<u>VOCs</u> ☒ <u>S/VOCs</u> ☒ <u>metals</u> ☒ <u>CAI</u> ☒
Sample ID:	<u>MW-255</u>
Sample Time:	_____
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	_____
Total Bottles:	<u>6</u>

EVACUATION INFORMATION

Evacuation Method: ☐ Bailor ☒ Peristaltic ☐ Grunfos ☐ Other Pump _____

Tubing Used: ☐ Teflon ☒ Polyethylene

Sampling Method: VOCs ☒ Bailor ☐ Peristaltic ☐ Grunfos ☐ Other Pump _____

Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quanta H/H Sci.

Time	1	2	3	4	5	6	7	8
Parameter	<u>1602</u>	<u>1607</u>	<u>1612</u>	<u>1618</u>	<u>1628</u>	<u>1638</u>	<u>1648</u>	<u>1658</u>
Volume Pumped (ml)	<u>150</u>	<u>110</u>	<u>110</u>	<u>80</u>	<u>75</u>	<u>75</u>	<u>75</u>	
Depth to Water (ft. TIC)	<u>6.50</u>	<u>6.46</u>	<u>6.45</u>	<u>6.45</u>	<u>6.45</u>	<u>6.41</u>	<u>6.41</u>	
Temperature (°C)	<u>9.53</u>	<u>9.72</u>	<u>9.68</u>	<u>9.43</u>	<u>9.27</u>	<u>9.38</u>	<u>9.45</u>	
pH	<u>8.61</u>	<u>8.44</u>	<u>8.41</u>	<u>8.42</u>	<u>8.41</u>	<u>8.42</u>	<u>8.41</u>	
Conductance (mS/cm)	<u>0.825</u>	<u>0.817</u>	<u>0.802</u>	<u>0.688</u>	<u>0.737</u>	<u>0.738</u>	<u>0.723</u>	
Dissolved Oxygen (mg/L)	<u>5.93</u>	<u>4.34</u>	<u>4.05</u>	<u>3.65</u>	<u>3.36</u>	<u>3.23</u>	<u>2.83</u>	
Turbidity (NTU)	<u>314</u>	<u>285</u>	<u>273</u>	<u>261</u>	<u>227</u>	<u>190</u>	<u>177</u>	
ORP (mV)	<u>231</u>	<u>233</u>	<u>235</u>	<u>238</u>	<u>242</u>	<u>246</u>	<u>248</u>	

Time	10	11	12
Parameter			
Volume Pumped (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

initial: quite turbid. no o/sk.
 * spoke w/ ROK - turbidity not responding quite enough - dash on road. Pump heavily at bottom of well. Come back tomorrow

SAMPLE DESTINATION

Laboratory: STL - Buffalo

Shipped Via: ☒ Federal Express ☐ Other: _____

Sample was ☐ shipped day of sampling ☒ sent on _____

Chain of Custody Signed By: _____

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/RDK
 Job Number: 3662-08-006
 Weather: cloudy moderate 40°
 Well ID: MW-255
 Date: 11/19/02
 Time In: 750 Time Out: 1003

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>6.21</u>		
Total Depth (feet)	<u>18.29</u>		
Screened Interval (feet)	<u>9.4-18.4</u>		

pump intake 12'

check where appropriate
 Well Type: ☒ Flushmount ☐ Stick-Up
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>12-08</u>
Volume of Water in Well: (gal)	<u>2-0</u>
Pumping Rate of Pump: (mL/min)	<u>440</u>
Pump Start: <u>8:16</u> Pump Stop: <u>9:30</u>	
Minutes of Pumping:	<u>74</u>
Total Volume Removed: (ml)	<u>32-54</u>

Conversion Factors

gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: VOLs ☒
SVOLs ☒
metals ☒
CN ☒
 Sample ID: MW-255
 Sample Time: 9:15
 MS/MSD: Yes ☐ No ☒
 Duplicate: Yes ☐ No ☒
 Duplicate ID: _____
 Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: VOLs Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quanta/HF Sci.

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>8:20*</u>	<u>8:46</u>	<u>8:51</u>	<u>8:56</u>	<u>9:01</u>	<u>9:06</u>	<u>9:11</u>	<u>Final</u>	<u>Bailer</u>
Volume Purged (ml)	<u>440</u>	<u>440</u>	<u>440</u>	<u>440</u>	<u>440</u>	<u>440</u>	<u>440</u>		
Depth to Water (ft. TIC)	<u>6.60</u>	<u>6.62</u>	<u>6.66</u>	<u>6.69</u>	<u>6.70</u>	<u>6.70</u>	<u>6.71</u>	<u>6.23</u>	
Temperature (°C)	<u>12.42</u>	<u>12.50</u>	<u>12.49</u>	<u>12.62</u>	<u>12.67</u>	<u>12.69</u>	<u>12.72</u>	<u>11.26</u>	
pH	<u>7.73</u>	<u>7.74</u>	<u>7.79</u>	<u>7.80</u>	<u>7.83</u>	<u>7.78</u>	<u>7.73</u>	<u>8.19</u>	
Conductance (mS/cm)	<u>2.17</u>	<u>2.09</u>	<u>2.99</u>	<u>1.91</u>	<u>1.87</u>	<u>1.84</u>	<u>1.81</u>	<u>1.59</u>	
Dissolved Oxygen (mg/L)	<u>0.71</u>	<u>0.49</u>	<u>0.42</u>	<u>0.35</u>	<u>0.31</u>	<u>0.28</u>	<u>0.25</u>	<u>0.24</u>	
Turbidity (NTU)	<u>64.1</u>	<u>17.4</u>	<u>7.2</u>	<u>5.5</u>	<u>4.9</u>	<u>4.4</u>	<u>3.3</u>	<u>2.2</u>	
ORP (mV)	<u>281</u>	<u>282</u>	<u>281</u>	<u>281</u>	<u>280</u>	<u>279</u>	<u>278</u>	<u>263</u>	

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS
Final pump - clear no obs.
initial - immediately turbid, no o/sh.
* turbidimeter battery discharged - got
inverter from RDK - charging / working.
* (pump had stopped when I returned - disconnect
from battery - apparently only a short time)
- this well needs to be pumped at a higher
rate to clear turbidity per RDK.
Final WL: 6.24

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: _____
 Sample was ☒ shipped day of sampling ☐ sent on _____
 Chain of Custody Signed By: _____
 KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/PPK
 Job Number: 3166-03-0010
 Weather: cloudy, cold 38°
 Well ID: M-265
 Date: 11/18/02
 Time In: 1000 Time Out: 1205

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>3.06</u>		
Total Depth (feet)	<u>7.72</u>		
Screened Interval (feet)	<u>2.5-7.9</u>		

pump in take ~ 2.5-5.3

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☐ No ☒
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>4.66</u>
Volume of Water In Well: (gal)	<u>0.8</u>
Pumping Rate of Pump: (mL/min)	<u>150</u>
Pump Start: <u>1040</u> Pump Stop: <u>1140</u>	
Minutes of Pumping:	<u>60</u>
Total Volume Removed: (ml)	<u>11.9 L</u>

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.489

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: VOCs ☒
SVOCs ☒
metals ☒
CN ☐
 Sample ID: MW-265
 Sample Time: 1135
 MS/MSD: Yes ☐ No ☒
 Duplicate: Yes ☐ No ☒
 Duplicate ID: _____
 Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Sailer ☐ Peristaltic ☒ Grunfos ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: VOCs Sailer ☒ Peristaltic ☒ Grunfos ☐
 Did well go dry? Yes ☐ No ☒
 Water Quality Meter Type: Quantek/HF Sci

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>1044</u>	<u>1049</u>	<u>1054</u>	<u>1103</u>	<u>1108</u>	<u>1119</u>	<u>1124</u>	<u>1129</u>	<u>1133</u>
Volume Purged (ml)	<u>180</u>	<u>180</u>	<u>180</u>	<u>180</u>	<u>180</u>	<u>180</u>	<u>180</u>	<u>180</u>	<u>180</u>
Depth to Water (ft. TIC)	<u>3.17</u>	<u>3.19</u>	<u>3.20</u>	<u>3.22</u>	<u>3.22</u>	<u>3.25</u>	<u>3.25</u>	<u>3.26</u>	<u>3.26</u>
Temperature (°C)	<u>13.61</u>	<u>13.71</u>	<u>13.57</u>	<u>13.66</u>	<u>13.62</u>	<u>13.66</u>	<u>13.75</u>	<u>13.60</u>	<u>13.67</u>
pH	<u>7.78</u>	<u>7.60</u>	<u>7.55</u>	<u>7.53</u>	<u>7.53</u>	<u>7.51</u>	<u>7.52</u>	<u>7.51</u>	<u>7.49</u>
Conductance (mS/cm)	<u>0.109</u>	<u>0.134</u>	<u>0.143</u>	<u>0.149</u>	<u>0.147</u>	<u>0.172</u>	<u>0.174</u>	<u>0.180</u>	<u>0.184</u>
Dissolved Oxygen (mg/L)	<u>5.77</u>	<u>5.24</u>	<u>5.18</u>	<u>5.11</u>	<u>5.06</u>	<u>4.97</u>	<u>4.95</u>	<u>5.02</u>	<u>4.93</u>
Turbidity (NTU)	<u>2.11</u>	<u>2.2</u>	<u>4.5</u>	<u>4.4</u>	<u>4.0</u>	<u>4.0</u>	<u>3.9</u>	<u>3.8</u>	<u>3.9</u>
ORP (mV)	<u>307</u>	<u>308</u>	<u>308</u>	<u>308</u>	<u>309</u>	<u>309</u>	<u>309</u>	<u>309</u>	<u>309</u>

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Time: 10:55 Parameter: Final
 Volume Purged (ml): _____
 Depth to Water (ft. TIC): 3.17
 Temperature (°C): 12.55
 pH: 7.72
 Conductance (mS/cm): 0.423
 Dissolved Oxygen (mg/L): 6.35
 Turbidity (NTU): 13.3
 ORP (mV): 309

initial: clear, no o/sh. Final same

Final WL = 3.18

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: _____
 Sample was ☒ shipped day of sampling ☐ sent on _____
 Chain of Custody Signed By: KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: RDX
Job Number: 366-08-006
Weather: OVERCAST, LIGHT PERIODIC RAIN, LOW 40'S
Well ID: MW-275
Date: 11/18/07
Time In: 1205 Time Out: 1330

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	<u>5.60</u>	<u>—</u>	<u>—</u>
Total Depth (feet)	<u>9.52</u>	<u>—</u>	<u>—</u>
Screened Interval (feet)	<u>—</u>	<u>—</u>	<u>4.9-9.5</u>

check where appropriate
Well Type: Flushmount ☒ Stick-Up ☐
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>3.92</u>
Volume of Water in Well: (gal)	<u>0.6</u>
Pumping Rate of Pump: (mL/min)	<u>200</u>
Pump Start: <u>1218</u>	Pump Stop: <u>1300 (SAMPLE)</u>
Minutes of Pumping:	<u>42</u>
Total Volume Removed: (ml)	<u>8000 / 2.1 GAL</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.489
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	☒ <u>TC, VOCs</u>
	☒ <u>TC, SVOCs</u>
	☒ <u>TAL INORGANICS + CO₂</u>
Sample ID:	<u>MW-275</u>
Sample Time:	<u>1300</u>
MS/MSO:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	<u>N/A</u>
Total Bottles:	<u>6</u>

EVACUATION INFORMATION	
Evacuation Method:	Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used:	Teflon ☐ Polyethylene ☒
Sampling Method:	Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry?	Yes ☐ No ☒

HACH 2100PT TUBING METER
Water Quality Meter Type: QUANTA HYDROLAB / FLOW THROUGH CELL

Time	1 1220	2 1225	3 1230	4 1235	5 1240	6 1245	7 1250	8 1255	9 1300
Parameter	Initial								
Volume Purged (ml)	Initial	1000	2000	3000	4000	5000	6000	7000	8000
Depth to Water (ft. TIC)	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60
Temperature (°C)	14.52	15.35	15.51	15.61	15.63	15.69	15.60	15.71	15.77
pH	6.69	6.55	6.54	6.53	6.53	6.52	6.51	6.51	6.51
Conductance (mS/cm)	1.86	1.83	1.82	1.83	1.83	1.83	1.83	1.84	1.84
Dissolved Oxygen (mg/L)	2.11	0.44	0.34	0.29	0.27	0.24	0.22	0.2	0.20
Turbidity (NTU)	152	9	5	4	3	2	2	2	1
ORP (mV)	253	181	156	137	131	119	113	107	103

Time	10 (Final Bailer)	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)	N/A		
Temperature (°C)	15.80		
pH	6.57		
Conductance (mS/cm)	1.92		
Dissolved Oxygen (mg/L)	N/A		
Turbidity (NTU)	13		
ORP (mV)	112		

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge H₂O LT GRAY, MOD TURBID, w/odor
Final purge H₂O CLEAR, COLORLESS w/odor
- SAMPLED MID PORTION OF SATURATED SCREEN
w/ PERISTALTIC PUMP & DEDICATED/DISP. FC
BAILER

SAMPLE DESTINATION	
Laboratory:	<u>STL - Buffalo</u>
Shipped Via:	☒ Federal Express ☐ Other: <u> </u>
Sample was	☒ shipped day of sampling ☐ sent on <u> </u>
Chain of Custody Signed By:	<u>KPM</u>

Site: North Albany for National Grid
 GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: POK
 Job Number: 366-08-006
 Weather: OVERCAST, LIGHT RAIN / SWAZZ, 30°
 Well ID: MM-270
 Date: 11/18/07
 Time In: 1017 Time Out: 1130

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	<u>8.47</u>	<u>---</u>	<u>---</u>
Total Depth (feet)	<u>24.57</u>	<u>---</u>	<u>---</u>
Screened Interval (feet)	<u>---</u>	<u>---</u>	<u>13.3-22.9</u>

check where appropriate
 Well Type: ☒ Flushmount ☐ Stick-Up
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>16.1</u>
Volume of Water in Well: (gal)	<u>2.6641</u>
Pumping Rate of Pump: (mL/min)	<u>350 / 300</u>
Pump Start: <u>1036</u> Pump Stop: <u>1125</u>	
Minutes of Pumping: <u>49</u>	
Total Volume Removed: (ml)	<u>14,700 / 3.9641</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	8" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	
<u>TCL VOCs</u>	☒
<u>TCL SVOCs</u>	☒
<u>TAI (NO₃-N, NH₄-N, CO₃-C)</u>	☒
Sample ID:	<u>MM-270</u>
Sample Time:	<u>1115</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	<u>N/A</u>
Total Bottles:	<u>6</u>

EVACUATION INFORMATION	
Evacuation Method:	Bailer ☐ Peristaltic ☒ Grunfos ☐
Tubing Used:	Teflon ☐ Polyethylene ☒
Sampling Method:	(VRS) Bailer ☒ Peristaltic ☒ Grunfos ☐
Did well go dry?	Yes ☐ No ☒

Water Quality Meter Type: HACH 2100 P TDS w/TEMPERATURE
QUANTA HYDROLAB w/TEMPERATURE

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>1039</u>	<u>1045</u>	<u>1050</u>	<u>1055</u>	<u>1100</u>	<u>1105</u>	<u>1110</u>	<u>1115</u>	
Volume Purged (ml)	Initial	<u>350</u>	<u>4650</u>	<u>6150</u>	<u>7650</u>	<u>9150</u>	<u>10650</u>	<u>12150</u>	
Depth to Water (ft. TIC)	<u>8.85</u>	<u>8.92</u>	<u>8.89</u>	<u>8.89</u>	<u>8.89</u>	<u>8.89</u>	<u>8.89</u>	<u>8.89</u>	
Temperature (°C)	<u>15.97</u>	<u>16.65</u>	<u>16.79</u>	<u>16.79</u>	<u>16.80</u>	<u>16.88</u>	<u>16.80</u>	<u>16.86</u>	
pH	<u>6.62</u>	<u>6.67</u>	<u>6.70</u>	<u>6.71</u>	<u>6.70</u>	<u>6.71</u>	<u>6.71</u>	<u>6.71</u>	
Conductance (mS/cm)	<u>1.58</u>	<u>1.51</u>	<u>1.72</u>	<u>1.75</u>	<u>1.71</u>	<u>1.67</u>	<u>1.71</u>	<u>1.64</u>	
Dissolved Oxygen (mg/L)	<u>1.55</u>	<u>0.44</u>	<u>0.36</u>	<u>0.37</u>	<u>0.32</u>	<u>0.28</u>	<u>0.28</u>	<u>0.26</u>	
Turbidity (NTU)	<u>27</u>	<u>7</u>	<u>5</u>	<u>4</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	
ORP (mV)	<u>359</u>	<u>160</u>	<u>148</u>	<u>135</u>	<u>126</u>	<u>121</u>	<u>117</u>	<u>115</u>	

Time	10	11	12
Parameter	<u>(Final)</u>		
Volume Purged (ml)	<u>Bailer</u>		
Depth to Water (ft. TIC)	<u>N/A</u>		
Temperature (°C)	<u>16.93</u>		
pH	<u>6.68</u>		
Conductance (mS/cm)	<u>1.65</u>		
Dissolved Oxygen (mg/L)	<u>N/A</u>		
Turbidity (NTU)	<u>21</u>		
ORP (mV)	<u>110</u>		

MISCELLANEOUS OBSERVATIONS/PROBLEMS

STARTED PUMPING 1036
 STOPPED PUMPING 1125
 INITIAL PURGE H₂O LT GRAY/BROWN, SLIMY/TURBID w/ODOR
 FINAL PURGE H₂O CLEAR, COLORLESS, w/ODOR
 * STARTED PURGE RATE TO 300 mL/MIN @ 1048
 - SAMPLED FROM MID SCREEN w/ BOTH PERISTALTIC
 PUMP: DEDICATED / DISP. PE BAILER

SAMPLE DESTINATION	
Laboratory:	<u>STL - Buffalo</u>
Shipped Via:	☒ Federal Express ☐ Other: _____
Sample was	☒ shipped day of sampling ☐ sent on _____
Chain of Custody Signed By:	<u>KPM</u>

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: ROK
 Job Number: 366-08-606
 Weather: OVERCAST, Low 40's

Well ID: MW-285
 Date: 11/17/02
 Time In: 0700 Time Out: 0930

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	<u>3.92</u>	<u>---</u>	<u>---</u>
Total Depth (feet)	<u>8.20</u>	<u>---</u>	<u>---</u>
Screened Interval (feet)	<u>---</u>	<u>---</u>	<u>4.0-8.6</u>

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>5.28</u>
Volume of Water in Well: (gal)	<u>0.964</u>
Pumping Rate of Pump: (mL/min)	<u>325</u>
Pump Start: <u>0738</u> Pump Stop: <u>0830 (BAIL)</u>	
Minutes of Pumping: <u>48</u>	
Total Volume Removed: (ml)	<u>16575 / 4.4 gal</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION
 Analyses: IC/MS ☒
IC/MS ☒
TA/METALS ☒
CW- ☒
 Sample ID: MW-285
 Sample Time: 0830
 MS/MSD: Yes ☒ No ☐
 Duplicate: Yes ☒ No ☐
 Duplicate ID: DUP-2
 Total Bottles: 24

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☒
 QUANTA HYDROLAB / FLOW THROUGH CELL
 Water Quality Meter Type: HACH 2100 P ZEPHYRUS

Time	1	2	3	4	5	6	7	8	9
Parameter	Initial	0745	0750	0755	0800	0805	0810	0815	0820
Volume Purged (ml)	Initial	1950	3575	5200	6825	8450	10075	11700	13325
Depth to Water (ft. TIC)	3.71	3.86	3.91	3.93	3.95	3.96	3.97	3.97	3.97
Temperature (°C)	13.55	15.28	15.15	15.13	15.18	15.18	15.15	15.17	15.16
pH	6.78	6.80	6.82	6.82	6.82	6.84	6.85	6.87	6.89
Conductance (mS/cm)	0.314	0.364	0.345	0.337	0.324	0.363	0.365	0.354	0.360
Dissolved Oxygen (mg/L)	5.31	0.52	0.44	0.37	0.31	0.28	0.28	0.26	0.23
Turbidity (NTU)	103	37	16	7	3	3	2	2	2
ORP (mV)	336	212	180	157	143	135	123	109	95

Time	10	11	12
Parameter	0825	0830	Final (Bailer)
Volume Purged (ml)	14950	16575	N/A
Depth to Water (ft. TIC)	3.97	3.97	N/A
Temperature (°C)	15.18	15.18	15.08
pH	6.91	6.94	6.25
Conductance (mS/cm)	0.352	0.356	0.416
Dissolved Oxygen (mg/L)	0.23	0.21	N/A
Turbidity (NTU)	2	2	57
ORP (mV)	83	77	56

MISCELLANEOUS OBSERVATIONS/PROBLEMS

INITIAL PURGE H2O LT GRAY/BLOX, SLIGHTLY TURBID w/DOOR
 FINAL PURGE H2O CLEAR, COLORLESS w/DOOR
 - SAMPLED MID SECTION OF SATURATED PORTION
 OF SCREEN w/ PERISTALTIC PUMP; DESICATED,
 DISP. PE BAILER.

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: ---
 Sample was ☒ shipped day of sampling ☐ sent on ---
 Chain of Custody Signed By: KPM

Site: North Albany for National Grid
 Event: Fall Sampling
 GROUND-WATER SAMPLING LOG

Sampling Personnel: DK
 Job Number: 366 DB DOXO
 Weather: OVERCAST, High 30° Low 40°
 Well ID: MW-28D
 Date: 11/21/03
 Time in: 0745 Time Out: 1000

WELL INFORMATION			
	TIC	TOC	BGS
Depth to Water (feet)	<u>8.25</u>		
Total Depth (feet)	<u>21.80</u>		
Screened Interval (feet)			<u>11.3-21.3</u>

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>13.55</u>
Volume of Water in Well: (gal)	<u>2.261</u>
Pumping Rate of Pump: (mL/min)	<u>200</u>
Pump Start: <u>0802</u>	Pump Stop: <u>0915 (SAMPLE)</u>
Minutes of Pumping: <u>73</u>	
Total Volume Removed: (ml)	<u>13,800 / 3.661</u>

Conversion Factors				
gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability			
pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION	
Analyses:	☒ TCI VOCs ☒ TCI SVOCs ☒ TAI METALS ☒ Cu ²⁺
Sample ID:	<u>MW-28D</u>
Sample Time:	<u>0915</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	<u>N/A</u>
Total Bottles:	<u>6</u>

EVACUATION INFORMATION	
Evacuation Method:	Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used:	Teflon ☐ Polyethylene ☒
Sampling Method:	Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry?	Yes ☐ No ☒

(WAS)
 WATER QUALITY METER TYPE: HAUT ZIDOP TUBING METER

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>0806</u>	<u>0810</u>	<u>0815</u>	<u>0820</u>	<u>0830</u>	<u>0835</u>	<u>0845</u>	<u>0855</u>	<u>0900</u>
Volume Purged (ml)	Initial	<u>800</u>	<u>1800</u>	<u>2800</u>	<u>4800</u>	<u>5800</u>	<u>7800</u>	<u>9800</u>	<u>10,800</u>
Depth to Water (ft. TIC)	<u>8.30</u>	<u>8.30</u>	<u>8.30</u>	<u>8.30</u>	<u>8.30</u>	<u>8.30</u>	<u>8.30</u>	<u>8.30</u>	<u>8.30</u>
Temperature (°C)	<u>13.59</u>	<u>15.99</u>	<u>15.98</u>	<u>15.89</u>	<u>15.88</u>	<u>16.02</u>	<u>15.92</u>	<u>16.07</u>	<u>16.22</u>
pH	<u>7.36</u>	<u>7.18</u>	<u>7.17</u>	<u>7.16</u>	<u>7.16</u>	<u>7.16</u>	<u>7.17</u>	<u>7.15</u>	<u>7.17</u>
Conductance (mS/cm)	<u>2.02</u>	<u>3.00</u>	<u>3.02</u>	<u>3.03</u>	<u>3.04</u>	<u>3.04</u>	<u>3.04</u>	<u>3.05</u>	<u>3.04</u>
Dissolved Oxygen (mg/L)	<u>4.60</u>	<u>2.73</u>	<u>1.90</u>	<u>2.06</u>	<u>1.90</u>	<u>1.79</u>	<u>1.45</u>	<u>1.57</u>	<u>1.87</u>
Turbidity (NTU)	<u>129</u>	<u>130</u>	<u>117</u>	<u>86</u>	<u>45</u>	<u>32</u>	<u>17</u>	<u>10</u>	<u>9</u>
ORP (mV)	<u>176</u>	<u>107</u>	<u>67</u>	<u>49</u>	<u>30</u>	<u>23</u>	<u>14</u>	<u>3</u>	<u>-3</u>

Time	10	11	12	
Parameter	<u>0905</u>	<u>0910</u>	<u>0915</u>	<u>Final</u>
Volume Purged (ml)	<u>11,800</u>	<u>12,800</u>	<u>13,800</u>	<u>Final</u>
Depth to Water (ft. TIC)	<u>8.30</u>	<u>8.30</u>	<u>8.30</u>	<u>N/A</u>
Temperature (°C)	<u>16.13</u>	<u>16.09</u>	<u>16.10</u>	<u>15.82</u>
pH	<u>7.13</u>	<u>7.13</u>	<u>7.13</u>	<u>7.09</u>
Conductance (mS/cm)	<u>3.05</u>	<u>3.04</u>	<u>3.06</u>	<u>2.89</u>
Dissolved Oxygen (mg/L)	<u>1.70</u>	<u>1.67</u>	<u>1.71</u>	<u>N/A</u>
Turbidity (NTU)	<u>7</u>	<u>6</u>	<u>5</u>	<u>34</u>
ORP (mV)	<u>-7</u>	<u>-12</u>	<u>-11</u>	<u>6</u>

MISCELLANEOUS OBSERVATIONS/PROBLEMS
 INITIAL PURGE H2O LT 6M. MID. TURBID W/ 200P
 FINAL PURGE H2O CLEAR, COLORED W/ 200P
 SAMPLED MID SCREEN W/ PERISTALTIC PUMP: DISCARDED,
 DEP. AT BAILER

SAMPLE DESTINATION	
Laboratory:	<u>STL - Buffalo</u>
Shipped Via:	☒ Federal Express ☐ Other: _____
Sample was	☒ shipped day of sampling ☐ sent on _____
Chain of Custody Signed By:	<u>KPM</u>

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
Event: Fall Sampling

Sampling Personnel: KPM/AMB
Job Number: 366-08-006
Weather: Sunny, Breezy, mild, 55°
Well ID: PZ-015
Date: 11/15/02
Time In: 9:05 Time Out: 1045

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>4.35</u>		
Total Depth (feet)	<u>10.25</u>		
Screened Interval (feet)	<u>3.1-11.0</u>		

Pump intake ~ 8.02

check where appropriate
Well Type: Flushmount ☒ Stick-Up ☐
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>5.9</u>
Volume of Water in Well: (gal)	<u>0.9617</u>
Pumping Rate of Pump: (mL/min)	<u>200</u>
Pump Start: <u>924</u> Pump Stop: <u>1015</u>	
Minutes of Pumping:	<u>51</u>
Total Volume Removed: (ml)	<u>10.2 L</u>

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

<u>VOCs</u>	☒
<u>SUOFs</u>	☒
<u>Metals</u>	☒
<u>Cu</u>	☒
	☐
	☐

Sample ID: PZ-015
Sample Time: 1000
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: _____
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used: Teflon ☐ Polyethylene ☒
Sampling Method: VOCs Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Ameta/Hach

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>925</u>	<u>930</u>	<u>935</u>	<u>940</u>	<u>945</u>	<u>950</u>	<u>955</u>	<u>Final</u>	
Volume Purged (ml)	<u>300</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>NA</u>	
Depth to Water (ft. TIC)	<u>4.64</u>	<u>4.70</u>	<u>4.69</u>	<u>4.69</u>	<u>4.69</u>	<u>4.69</u>	<u>4.69</u>	<u>4.78</u>	
Temperature (°C)	<u>16.29</u>	<u>16.27</u>	<u>16.40</u>	<u>16.67</u>	<u>16.66</u>	<u>16.76</u>	<u>16.83</u>	<u>17.07</u>	
pH	<u>6.34</u>	<u>6.35</u>	<u>6.37</u>	<u>6.41</u>	<u>6.41</u>	<u>6.42</u>	<u>6.43</u>	<u>7.12</u>	
Conductance (mS/cm)	<u>0.001</u>	<u>0.001</u>	<u>0.002</u>	<u>0.001</u>	<u>0.002</u>	<u>0.001</u>	<u>0.002</u>	<u>1.500</u>	
Dissolved Oxygen (mg/L)	<u>0.61</u>	<u>0.45</u>	<u>0.41</u>	<u>0.34</u>	<u>0.30</u>	<u>0.29</u>	<u>0.27</u>	<u>1.83</u>	
Turbidity (NTU)	<u>9</u>	<u>7</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>6</u>	
ORP (mV)	<u>220</u>	<u>199</u>	<u>185</u>	<u>170</u>	<u>158</u>	<u>152</u>	<u>149</u>	<u>127</u>	

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: STL - Buffalo
Shipped Via: ☒ Federal Express ☐ Other: _____
Sample was ☒ shipped day of sampling ☐ sent on _____
Chain of Custody Signed By: _____
KPM

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/AMB
 Job Number: 366.08.006
 Weather: suny warm breeze 56°
 Well ID: P2-01D
 Date: 11/15/02
 Time In: 9:05 Time Out: 10:45

WELL INFORMATION		check where appropriate	
Depth to Water (feet)	TIC <u>8.41</u>	Well Type:	Flushmount ☒ Stick-Up ☐
Total Depth (feet)	<u>21.21</u>	Well Locked:	Yes ☒ No ☐
Screened Interval (feet)	<u>11-23.5</u>	Measuring Point Marked:	Yes ☒ No ☐
		Well Diameter:	1" ☐ 2" ☒ Other: ☐

WELL WATER INFORMATION	
Length of Water Column: (feet)	<u>12.8</u>
Volume of Water in Well: (gal)	<u>2.1</u>
Pumping Rate of Pump: (mL/min)	<u>190</u>
Pump Start: <u>4:19</u>	Pump Stop: <u>10:29</u>
Minutes of Pumping:	<u>70</u>
Total Volume Removed: (ml)	<u>13.32</u>

Conversion Factors				
gallons per foot	1" ID	2" ID	4" ID	5" ID
of water column:	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.				
Unit Stability				
pH	DO	Cond	ORP	
± 0.1	± 10%	± 3.0%	± 10 mV	

SAMPLING INFORMATION	
Analyses:	
<u>VOLCS</u>	☒
<u>SVOLCS</u>	☒
<u>Multiple</u>	☒
<u>CW</u>	☒
Sample ID:	<u>P2-01D</u>
Sample Time:	<u>10:10</u>
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID:	
Total Bottles:	<u>6</u>

EVACUATION INFORMATION	
Evacuation Method:	Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Tubing Used:	Teflon ☐ Polyethylene ☒ Grunfos ☐ Other Pump ☐
Sampling Method:	<u>VOLCS</u> Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
Did well go dry?	Yes ☐ No ☒
Water Quality Meter Type:	<u>Quanta/HF</u>

Time	1	2	3	4	5	6	7	8	9
Parameter	<u>9:25</u>	<u>9:30</u>	<u>9:38</u>	<u>9:50</u>	<u>10:05</u>	<u>10:00</u>	<u>10:05</u>	<u>10:10</u>	
Volume Purged (ml)	<u>160</u>	<u>160</u>	<u>160</u>	<u>160</u>	<u>190</u>	<u>190</u>	<u>190</u>	<u>190</u>	
Depth to Water (ft. TIC)	<u>8.58</u>	<u>8.59</u>	<u>8.59</u>	<u>8.60</u>	<u>8.60</u>	<u>8.59</u>	<u>8.59</u>	<u>8.59</u>	
Temperature (°C)	<u>16.51</u>	<u>16.51</u>	<u>16.07</u>	<u>16.73</u>	<u>16.73</u>	<u>16.74</u>	<u>16.77</u>	<u>17.06</u>	
pH	<u>6.94</u>	<u>6.98</u>	<u>6.93</u>	<u>6.92</u>	<u>6.92</u>	<u>6.92</u>	<u>6.92</u>	<u>7.05</u>	
Conductance (mS/cm)	<u>1.031</u>	<u>1.005</u>	<u>0.884</u>	<u>1.020</u>	<u>0.649</u>	<u>0.646</u>	<u>0.641</u>	<u>1.055</u>	
Dissolved Oxygen (mg/L)	<u>1.73</u>	<u>0.56</u>	<u>0.52</u>	<u>0.36</u>	<u>0.32</u>	<u>0.31</u>	<u>0.30</u>	<u>3.09</u>	
Turbidity (NTU)	<u>8.0</u>	<u>4.3</u>	<u>3.9</u>	<u>3.0</u>	<u>3.2</u>	<u>3.1</u>	<u>3.0</u>	<u>47.3</u>	
ORP (mV)	<u>178</u>	<u>171</u>	<u>164</u>	<u>160</u>	<u>157</u>	<u>156</u>	<u>155</u>	<u>212</u>	

Time	10	11	12
Parameter			
Volume Purged (ml)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

MISCELLANEOUS OBSERVATIONS/PROBLEMS
initial: clear no o/sk. Final:
* - battery change
Final W. of 8.74

SAMPLE DESTINATION	
Laboratory:	<u>STL - Buffalo</u>
Shipped Via:	☒ Federal Express ☐ Other: <u> </u>
Sample was	☒ shipped day of sampling ☐ sent on <u> </u>
Chain of Custody Signed By:	<u>KPM</u>

Site: North Albany for National Grid
GROUND-WATER SAMPLING LOG
 Event: Fall Sampling

Sampling Personnel: KPM/AMB
 Job Number: 300-08-006
 Weather: Sun, cool, 40°
 Well ID: P2-02
 Date: 11/14/02
 Time In: 1350 Time Out: 1735

WELL INFORMATION

	TIC	TOC	BGS
Depth to Water (feet)	<u>12.86'</u>		
Total Depth (feet)	<u>15.48'</u>		
Screened Interval (feet)	<u>6.5-16'</u>		

pump in taken at 14.4'

check where appropriate
 Well Type: Flushmount ☒ Stick-Up ☐
 Well Locked: Yes ☒ No ☐
 Measuring Point Marked: Yes ☒ No ☐
 Well Diameter: 1" ☐ 2" ☒ Other: _____

WELL WATER INFORMATION

Length of Water Column: (feet)	<u>3.09</u>
Volume of Water in Well: (gal)	<u>0.5 gal</u>
Pumping Rate of Pump: (mL/min)	
Pump Start: <u>1612</u> Pump Stop: <u>1700</u>	
Minutes of Pumping: <u>6:48</u>	
Total Volume Removed: (ml)	

Conversion Factors

gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses: VOCs ☒
SVOCs ☒
metals ☒
CN ☒
 Sample ID: P2-02
 Sample Time: 1705
 MS/MSD: Yes ☐ No ☒
 Duplicate: Yes ☐ No ☒
 Duplicate ID: _____
 Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Tubing Used: Teflon ☐ Polyethylene ☒
 Sampling Method: VOCs Bailer ☒ Peristaltic ☒ Grunfos ☐ Other Pump ☐
 Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: Quanta/HF

Time	1617	1622	1627	1632	1637	1644	1649	1654	1701
Parameter	Initial								
Volume Purged (ml)	120	120	120	120	120	100	100	175	175
Depth to Water (ft. TIC)	12.89	12.88	12.89	12.89	12.89	12.89	12.89	12.89	12.89
Temperature (°C)	15.64	15.76	15.61	15.68	15.68	15.47	16.60	16.39	16.41
pH	7.08	6.86	6.80	6.78	6.70	6.74	6.74	6.75	6.74
Conductance (mS/cm)	0.862	0.864	0.865	0.865	0.870	0.863	0.866	0.864	0.867
Dissolved Oxygen (mg/L)	1.20	0.74	0.54	0.48	0.48	0.52	0.26	0.26	0.25
Turbidity (NTU)	12.2	7.2	2.4	1.3	1.2	1.2	0.03	0.02	0.02
ORP (mV)	296	297	298	299	299	299	299	299	300

Time	10 Bailer filled	12
Parameter		
Volume Purged (ml)		
Depth to Water (ft. TIC)	12.84	
Temperature (°C)	16.32	
pH	7.32	
Conductance (mS/cm)	0.962	
Dissolved Oxygen (mg/L)	1.25	
Turbidity (NTU)	4.75	
ORP (mV)	298	

MISCELLANEOUS OBSERVATIONS/PROBLEMS
 initial: clear, no oil/sk, final = same
 * change battery
 Bailer -> very black, turbid, petroleum odor, no steam
 final WL: 12.86

SAMPLE DESTINATION

Laboratory: STL - Buffalo
 Shipped Via: ☒ Federal Express ☐ Other: _____
 Sample was ☒ shipped day of sampling ☐ sent on _____
 Chain of Custody Signed By: _____
 KPM

Attachment B

Validated Analytical Data Reports

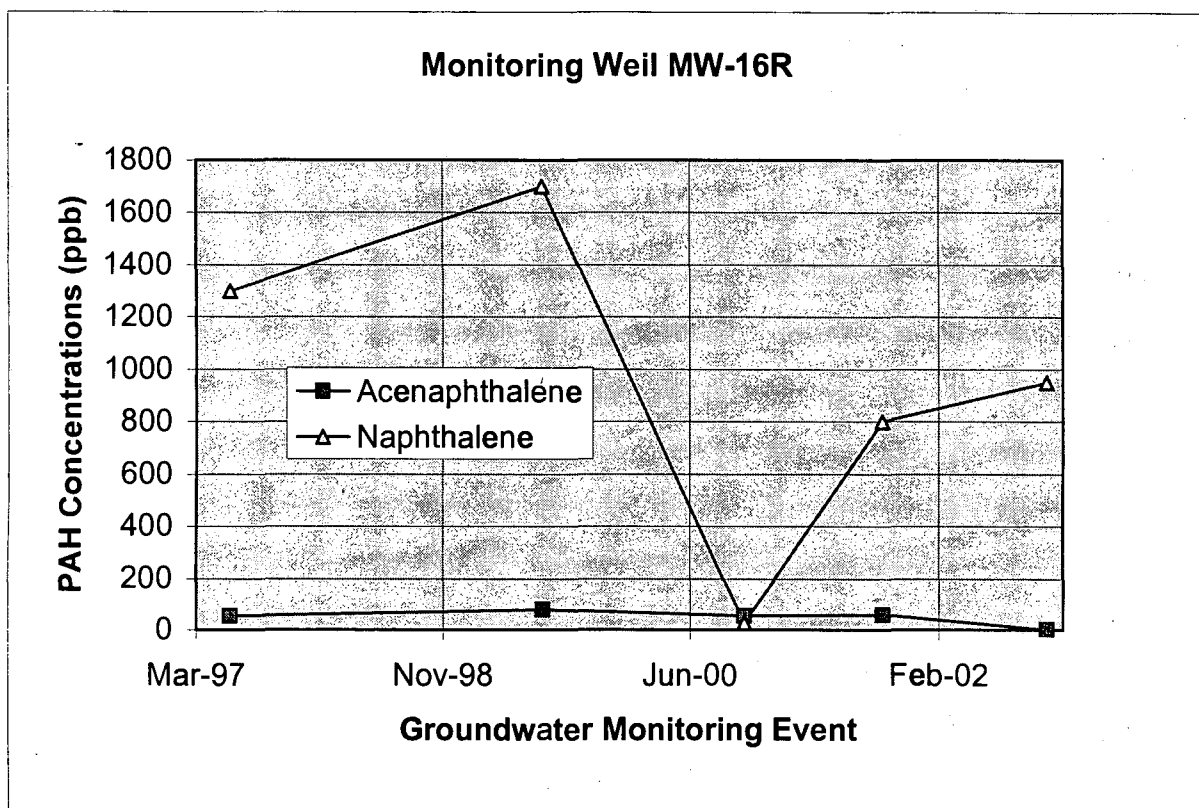
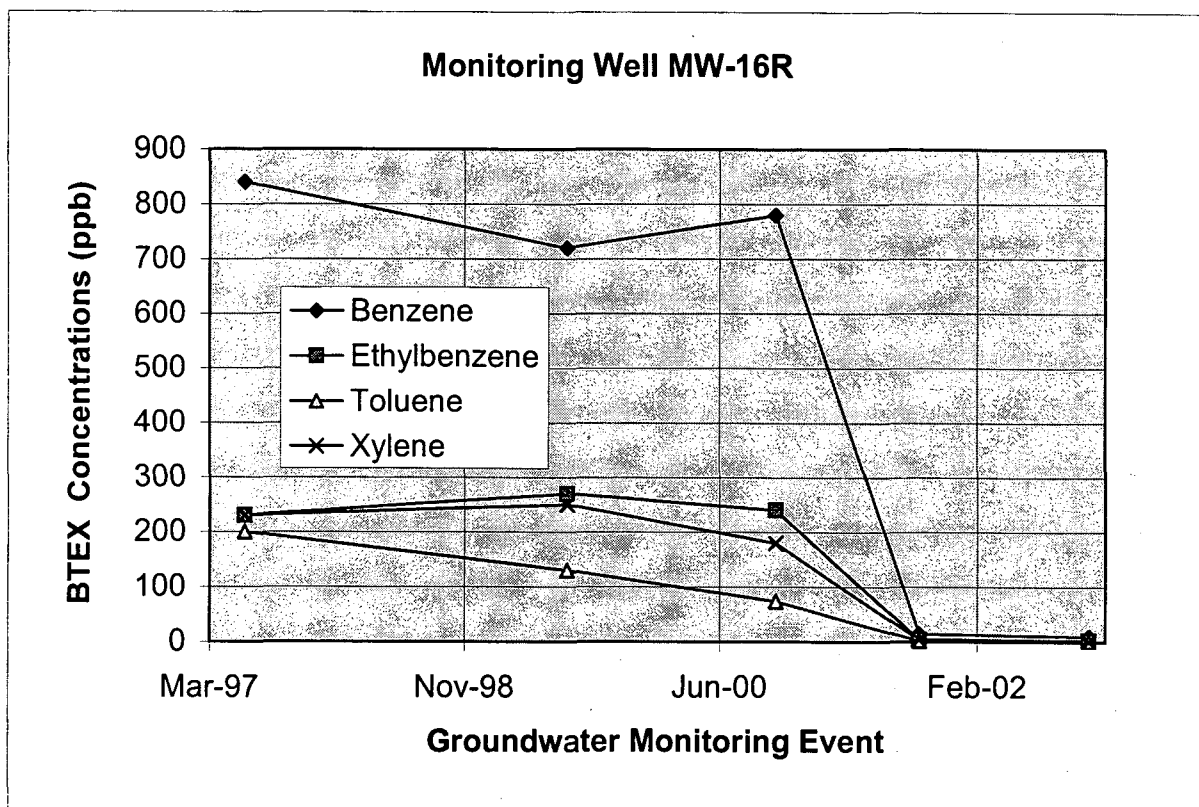
Validated Analytical Data Reports provided as separate spiral bound document entitled, "2002 Annual Groundwater Monitoring/NAPL Monitoring & Recovery Activities, Attachment B – Validated Analytical Reports"

Attachment C

Offsite Groundwater Quality Comparison Graphs

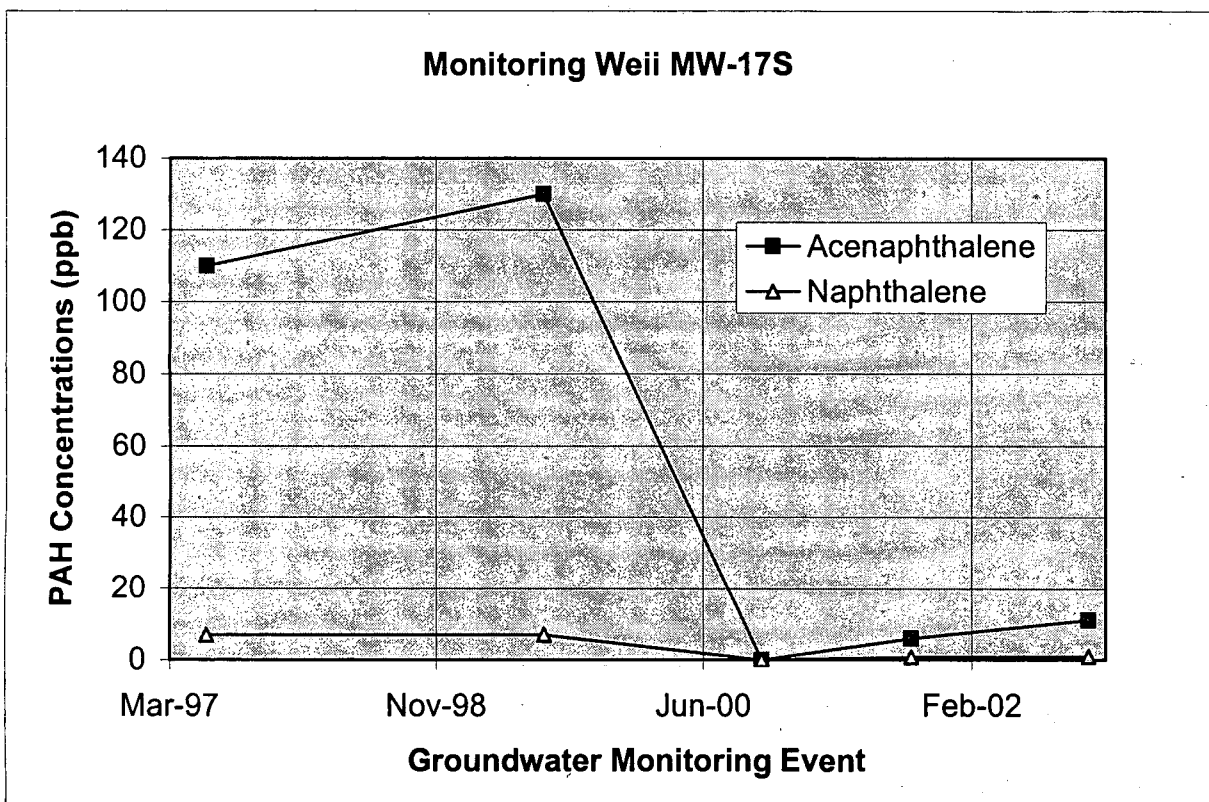
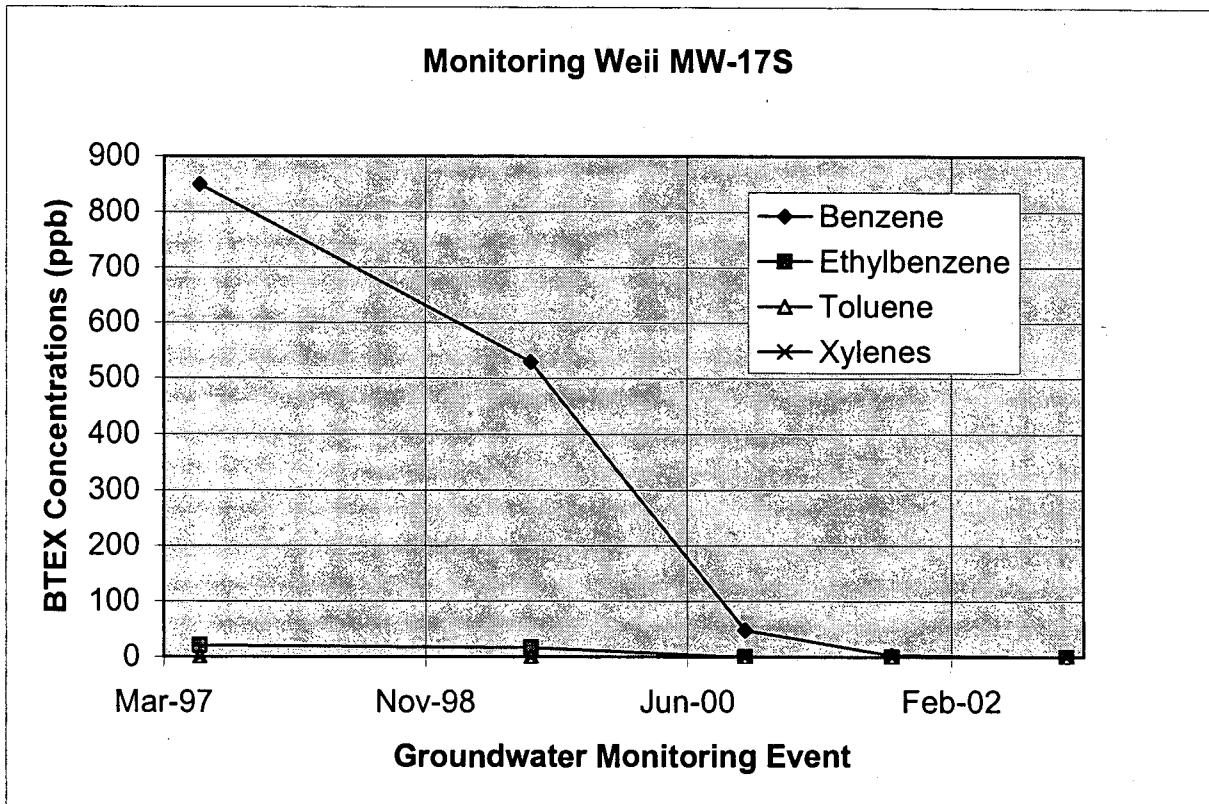
NIAGARA MOHAWK, A NATIONAL GRID COMPANY
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

SUMMARY OF BTEX AND PAH ANALYTICAL RESULTS FOR MW-16R



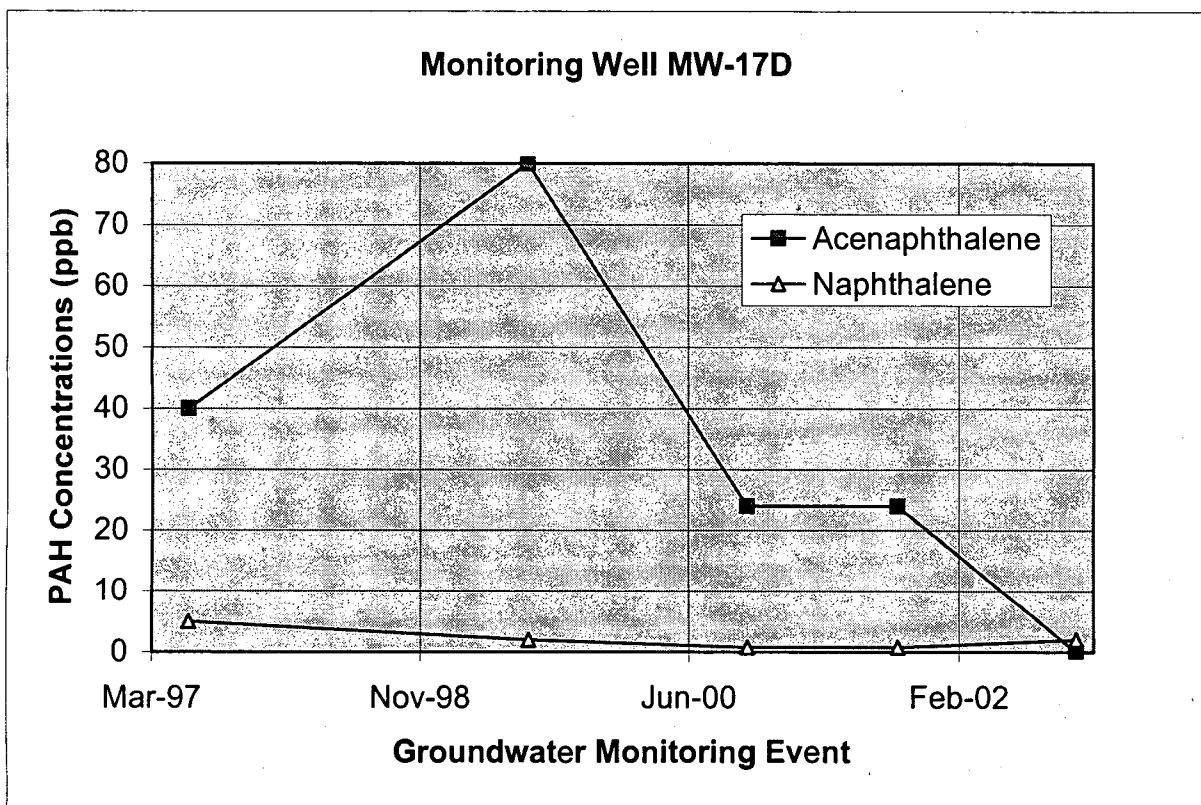
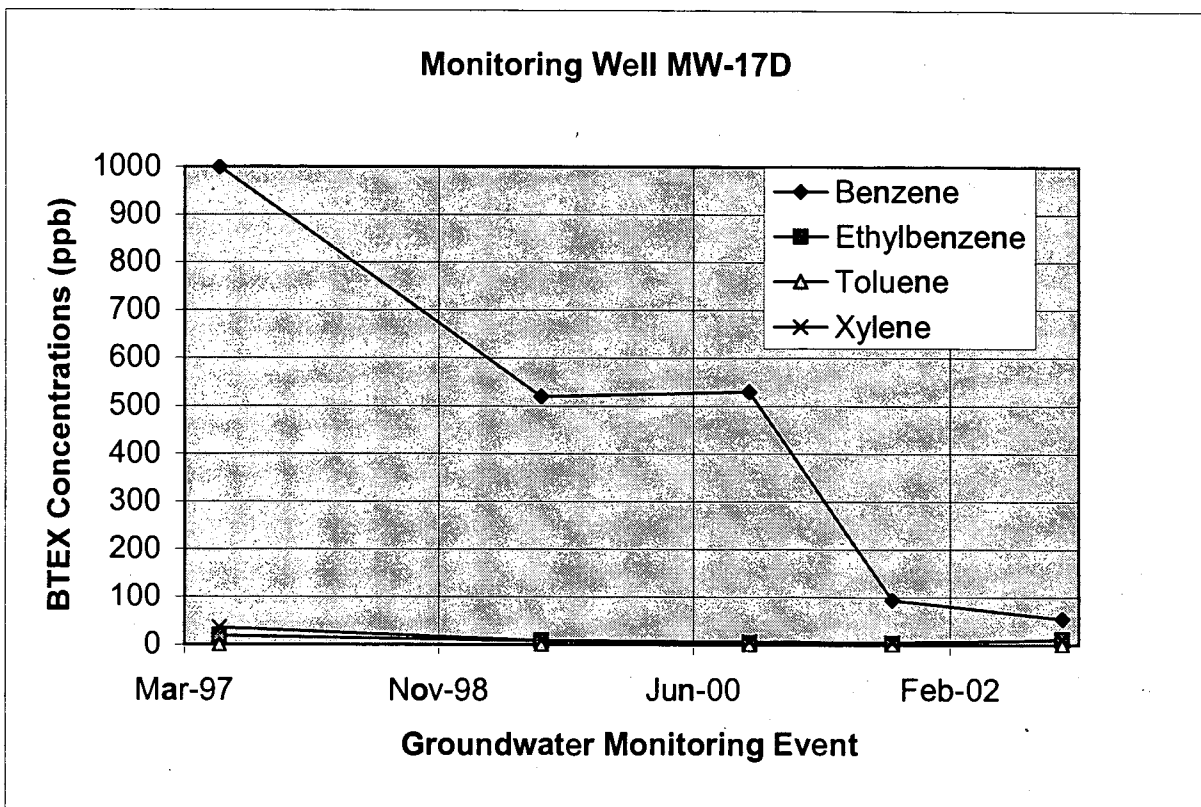
NIAGARA MOHAWK, A NATIONAL GRID COMPANY
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

SUMMARY OF BTEX AND PAH ANALYTICAL RESULTS FOR MW-17S



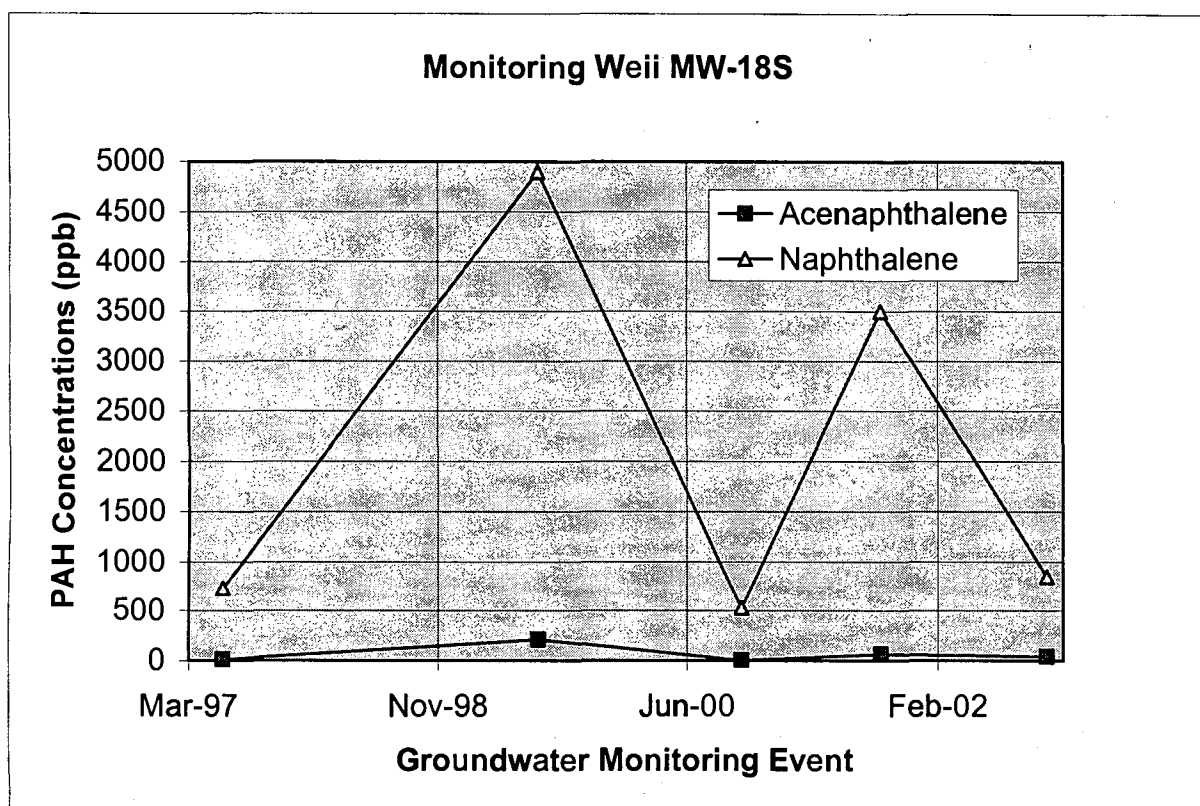
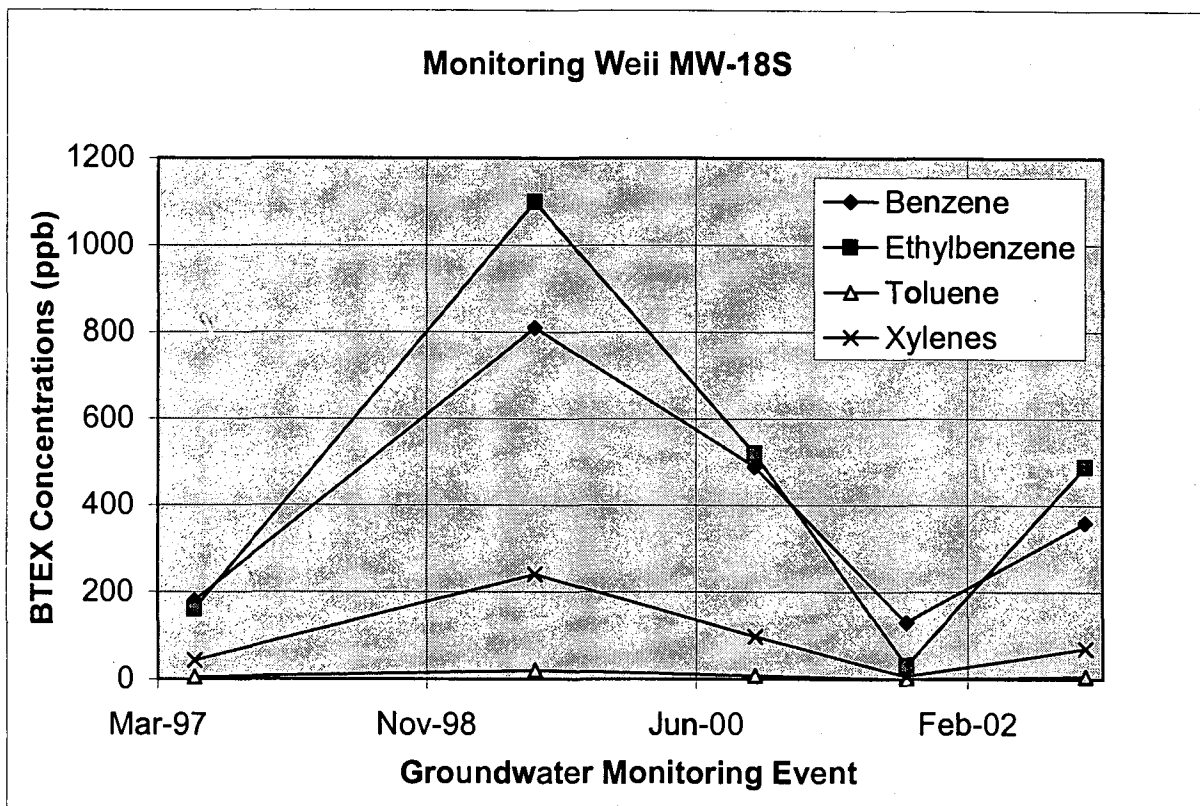
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NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

SUMMARY OF BTEX AND PAH ANALYTICAL RESULTS FOR MW-17D



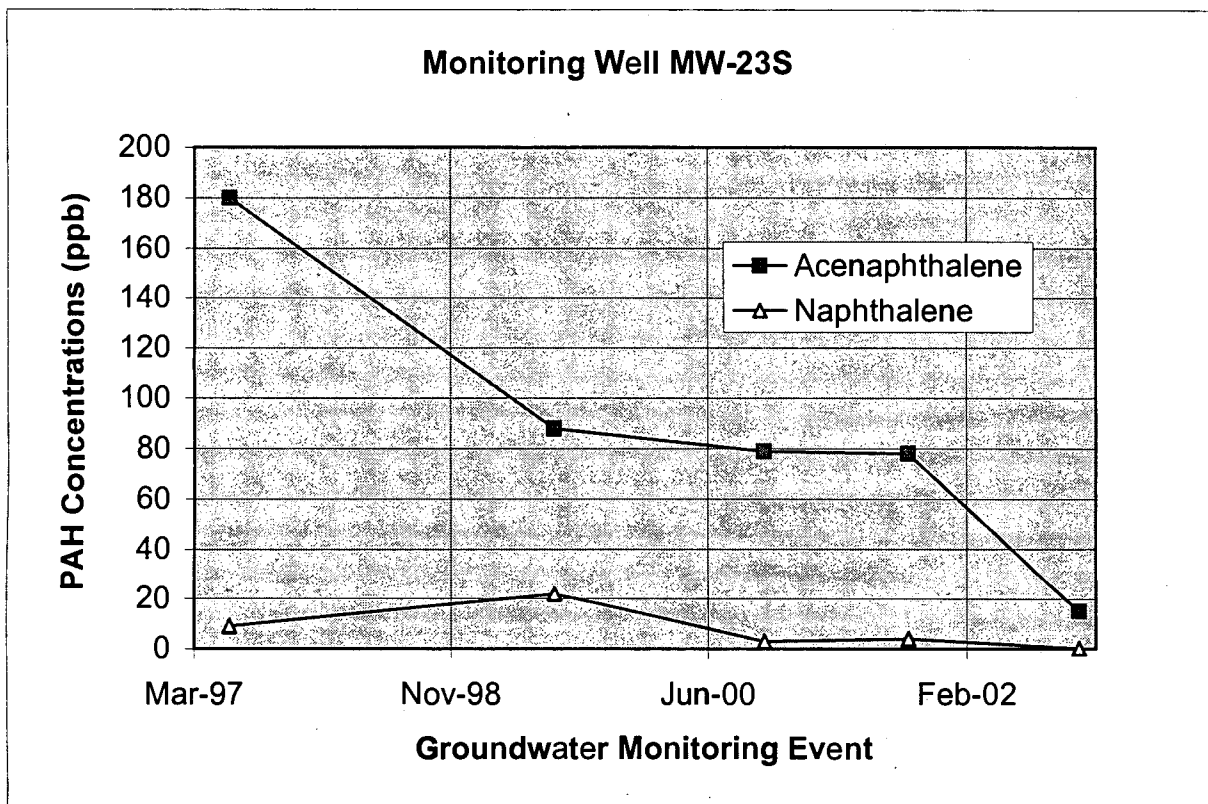
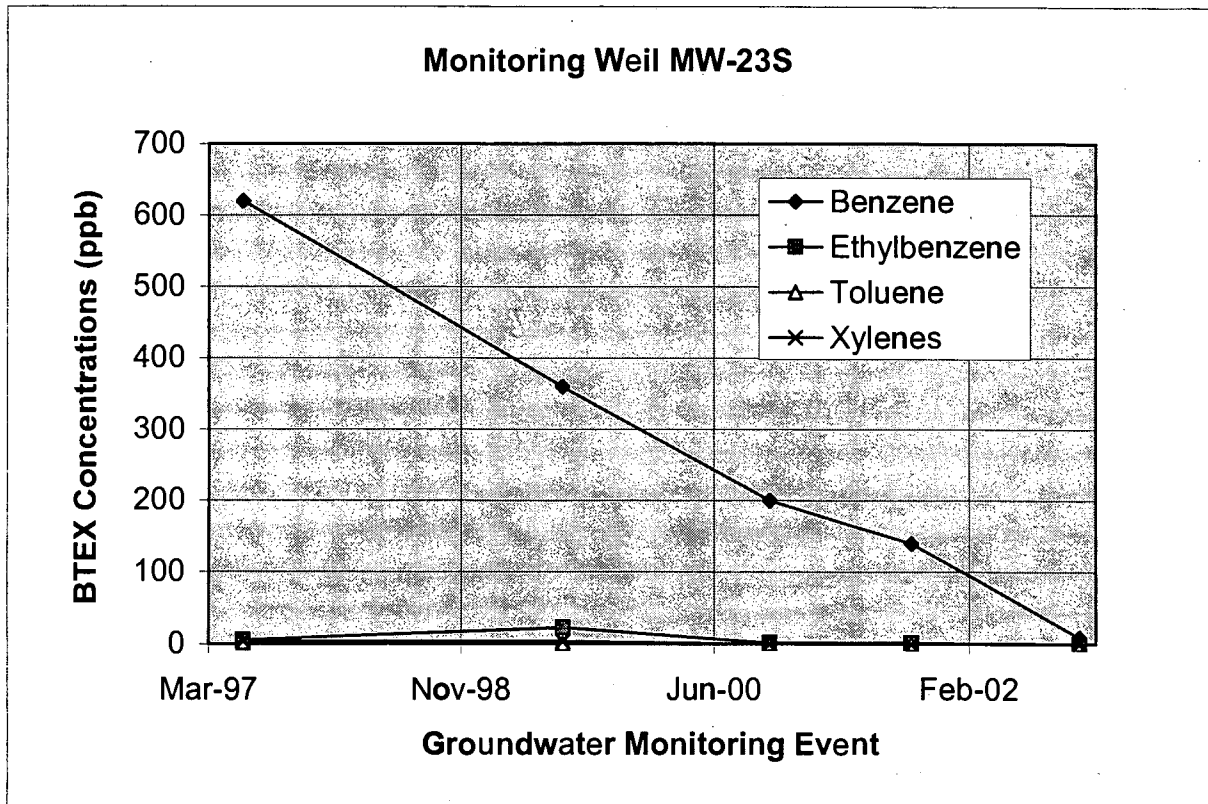
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ALBANY, NEW YORK

SUMMARY OF BTEX AND PAH ANALYTICAL RESULTS FOR MW-18S



NIAGARA MOHAWK, A NATIONAL GRID COMPANY
NORTH ALBANY SERVICE CENTER
ALBANY, NEW YORK

SUMMARY OF BTEX AND PAH ANALYTICAL RESULTS FOR MW-23S



Attachment D

NAPL Monitoring Logs

MONITORING WELL DNAPL DATA COLLECTION FORM

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 2/19/02
Weather: PARTLY CLOUDY
35°F - 45°F

Personnel: Jon Saroney
Company: BBL

Date	Time	Well ID	Depth (ft)	Water Level (ft)	Water Temp (°F)	Soil Temp (°F)	Soil Moisture (%)	Soil Type	Soil Color	Soil Description	Soil Analysis	Soil Test Results	Soil Test Comments
2/19/02	0840	MW-16D	2"	10.00	—	19.91							
	0845	MW-16R		9.47	—	37.62							
	0856	MW-19D		8.51	—	24.64							
	0920	MW-18S		11.39	—	16.43							A LOT OF ORANGE IRON ON PROBE
	0923	MW-23S		10.45	—	19.72							
	0935	MW-17S		11.56	—	16.68							
	0941	MW-17D		11.89	—	25.47							
	0948	MW-25S		7.06	—	18.86							
	1015	MW-28S		4.11	—	8.40							SLIGHT COAL TAR ODOOR; DRILLER CHECK: NO COAL TAR; NO SHEEN
	1020	MW-28D		9.18	—	21.65							
	1040	MW-13		5.64	—	17.74							SLIGHT COAL TAR ODOOR; DRILLER CHECK: NO COAL TAR; GREASE OBSERVED ON SIDES OF DRILLER
	1302	MW-5		5.39	**	22.47							COAL TAR OBSERVED ON PROBE
	1316	MW-27D		9.42	—	24.45							SLIGHT COAL TAR ODOOR; DRILLER CHECK: NO COAL TAR; NO SHEEN
	1322	MW-27S		7.12	—	9.41							
	1353	MW-7		3.48	14.64	UD							COAL TAR ON PROBE

COMMENTS:

**- COAL TAR OBSERVED w/ NO MEASURED DOG THICKNESS

UD - UNDETERMINED

EQUIPMENT: GEOTECH INTERFACE PROBE AND 12" SS Teflon Drillers

MONITORING WELL DNAPL DATA COLLECTION FORM

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: _____
Weather: _____

Personnel: _____
Company: _____

[illegible]

COMMENTS:

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 2/19/02
Weather: PARTLY CLOUDY
85°F - 45°F

Personnel: Jon SARCNEY
Company: BBL

[illegible]

COMMENTS: ** - PRODUCT DETECTED W/ NO MEASURABLE THICKNESS
LIMPLE EXTRACTED USING A PERISTALTIC PUMP W/ DEDICATED DISPOSABLE TUBING
EQUIPMENT: GEOTECH INTERFACE PROBE

MONITORING WELL LNAPL DATA COLLECTION FORM

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 5/22/02
Weather: Clear + Sunny
~60°F

Personnel: J. SARONEY / T. CRAMER
Company: BAL

Date	Time	MW Well ID	Well Diameter (inches)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness in Well Before Bailing (feet)	LNAPL Thickness in Well After Bailing (feet)	Inner Diameter of Bailer (inches)	Total LNAPL Thickness Removed, as Measured in Bailer (feet)	Amount of LNAPL Bailed (gallons)	Description of LNAPL
5/22/02	8:45	MW-155	2"	-	4.77						No LNAPL, No Odor
	9:40	MW-105		-	10.28						
	9:50	MW-235		-	9.61						
	10:00	MW-175		-	10.70						
	10:10	MW-255		-	5.85						
	10:45	MW-4		3.53	3.58	0.05	0	Pumped	-	0.0087	SEWAGE ODOR TO STRONG WATER LNAPL - BROWN-BLACK - THICK
	11:15	MW-205		-	3.57						No LNAPL, No Odor,
	12:20	MW-13		-	4.63						Grease obs. on bailer, slight odor
	12:50	MW-275		-	5.39						No LNAPL, No Odor
	13:10	MW-8		4.90	4.90			NOT PUMPED			redish orange product - no measurable thickness
	13:35	MW-10		9.42	9.52	0.10	0	Pumped	-	0.0163	light yellow product - diesel like odor
	13:55	MW-265		-	3.96						No LNAPL, No Odor

COMMENTS:

MW-105: OUTER CASING FLOODED, PUMPED OUT PRIOR TO OPENING INNER CASING CAP

MW-4 : " " " " " " " " " " " "

MW-8 : " " " " " " " " " " " "

MONITORING WELL DNAPL DATA COLLECTION FORM

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 5/22/02
Weather: Clear + Sunny
~ 60°F

Personnel: J. Saroney / T. Cramer
Company: BBL

Date	Time	Well ID	Well Diameter (Inches)	Depth to Water (feet)	Depth to DNAPL (feet)	Total Depth of Well (feet)	DNAPL Thickness in Well Before Bailing (feet)	DNAPL Thickness in Well After Bailing (feet)	Inner Diameter of Bailer (Inches)	Total DNAPL Thickness Removed, as Measured in Bailer (feet)	Amount of DNAPL Bailed (gallons)	Description of DNAPL
5/22/02	9:00	MW-16D	2"	9.08	—	19.90						No COALTAR, NO ODOR
	9:15	MW-16R	"	8.62	—	37.62						
	9:30	MW-19D		7.52	—	24.65						
	10:05	MW-17D		11.11	—	25.48						
	11:25	MW-28D		8.23	—	21.69						
	11:40	MW-7		2.58	14.61	ND				None removed to 41KALTS PUMP		COALTAR ON PROBE/BAILER, NO ODOR
	11:50	MW-14		10.62	—	21.31						No COALTAR, NO ODOR
	12:20	MW-13		4.63	—	17.76						GREASE ON PROBE/BAILER, SLIGHT ODOR
	12:34	MW-5		4.46	**	22.47				None removed ONLY TRACE		COALTAR ON PROBE/BAILER, SLIGHT ODOR
	12:55	MW-27D	Y	8.34	—	24.45						No COALTAR, NO ODOR
	13:30	MW-6A	2 WELLS UNDER LARGE PUDDLE OF WATER - DEC AGREE CAN NOT MONITOR THESE WELLS									
	"	MW-6S	} TODAY. WILL NEED TO COME BACK ANOTHER DAY (WITHIN ~ 1 WEEK) TO MONITOR WELLS									
	14:10	MW-26D	2"	5.28	**	19.01				None removed ONLY TRACE		TRACE COALTAR ON BAILER
	14:25	MW-2	↓	8.00	**	23.44				None removed ONLY TRACE		TRACE COALTAR ON PROBE/BAILER

COMMENTS:

MW-14 : CASING FLOODED, PUMPED OUT WATER PRIOR TO OPERATING INNER CASING CAP
MW-5 : " " " " " " " " " " " "

NOTE: MARK SCHEIBLY (CP RAIL) ON SITE FOR ACCESS TO CP RAIL PROPERTY (845-945^{HA})
DOUG MACNEAL (DEC) ON SITE TO OBSERVE NAPL MONITORING ACTIVITIES (830^{AM} - 230^P)

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY :

Date: 7/1/02
Weather: Mostly Cloudy
77°F

Personnel: Jon S. Roney
Company: EEL

[illegible]

WD: UNDETERMINED

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 9/20/02 & 9/24/02
Weather: Sunny, 75°F

Personnel: JAS/MAMM
Company: BEL

Date	Time	Well ID	Well Diameter (Inches)	Depth (Feet)	Flow Rate (GPM)	Pressure (PSI)	Temperature (°F)	Notes
9/20/02	1344	MW-155	2"	6.38				
	1430	MW-175	2"	11.63				
	1440	MW-235	2"	10.72				
	1445	MW-175	2"	11.81				
	1500	MW-255	2"	7.36				
9/24/02	1315	MW-4	2"	3.61	3.64	0.03	0.00	PUMPED 0.005
	1332	MW-255	2"	3.60				
	1453	MW-275	2"	6.26				MW - 275
	1510	MW-8	2"	5.13	5.20	0.07	0.00	PUMPED 0.011
	1525	MW-10	2"	11.89	12.03	0.14	0.00	PUMPED 0.023
	1545	MW-265	2"	5.17				No LNAPL, No odor

COMMENTS:

EQUIPMENT: GEOTECH INTERFACE PROBE AND A PERISTALTIC PUMP
W/ DEDICATED DISPOSABLE TUBING, 12" TEFLON BRIDLES

AMOUNT OF LNAPL REMOVED = THICKNESS X 0.263 (2" WELL CONVERSION FACTOR)

MONITORING WELL DNAPL DATA COLLECTION FORM

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 9/20/02 & 9/24/02
Weather: Sunny, 75°F

Personnel: JAS/MAMM
Company: BBL

DATE	TIME	WELL ID	WELL DEPTH (feet)	DEPTH TO WATER (feet)	DEPTH TO DNAPL (feet)	WATER TEMPERATURE (°F)	DNAPL THICKNESS (feet)	DNAPL TYPE	DNAPL COLOR	DNAPL ODOR	DNAPL TASTE	DNAPL TOUCH	DNAPL NOTES
9/20/02	1350	MW-16D	2"	10.21	—	19.90							
	1405	MW-16R	2"	9.77	—	87.65							
	1415	MW-19D	2"	8.55	—	24.66							
	1450	MW-17D	2"	12.11	—	25.45							
	1520	MW-16RS	2"	10.32	—	17.09							Soft sediment bottom.
	1530	MW-6A	2"	1.33	5.24	UD							
9/24/02	1337	MW-28D	2"	9.47	—	21.68							
	1350	MW-14	2"	11.69	—	21.34							Soft bottom
	1400	MW-7	2"	2.97	14.69	UD							
	1415	MW-13	2"	5.07	—	17.78							Grease on probe
	1435	MW-5	2"	4.73	—	22.50							Product on probe; odor
	1445	MW-27D	2"	9.16	—	24.42							
	1550	MW-26D	2"	5.81	* *	19.03							Trace of coal tar on bailer
	1610	MW-2	2"	8.73	* *	23.47							Trace of coal tar on probe

COMMENTS:

MW-26D - sheen also observed in bailer
UD: UNDETERMINED

NIAGARA MOHAWK POWER CORPORATION
NORTH ALBANY SERVICE CENTER
ALBANY, NY

Date: 11/12/02
Weather: _____

Personnel: _____
Company: _____

[illegible]

COMMENTS:

**** TRACE OF LNAPL OBSERVED W/ NO MEASUREABLE THICKNESS**

MONITORING WELL DNAPL DATA COLLECTION FORM
 NIAGARA MOHAWK POWER CORPORATION
 NORTH ALBANY SERVICE CENTER
 ALBANY, NY

Date: 11/12/02
 Weather: Cloudy, 44°F
 Personnel: JON SAREWY
 Company: BBL

11/12/02	0846	MW-2B	2"	9.24'	—	21.68'	SLIGHT COALTAPE OBSERVED; DAILIES CHECKED NO COALTAPE OBSERVED
0910	MW-14			11.91'	—	22.00'	
0918	MW-7			3.15'	14.69'	UD	
0940	MW-13			5.26'	—	17.77'	
0950	MW-5			4.89'	**	22.49'	COALTAPE OBSERVED ON PEGS
1015	MW-27B			9.25'	—	24.47'	COALTAPE OBSERVED ON PEGS
1125	MW-26B			5.89'	**	19.00'	COALTAPE OBSERVED ON PEGS; SLIGHT TANGLE OF COALTAPE OBSERVED ON PEGS
1142	MW-2		↑	8.53'	**	23.48'	COALTAPE OBSERVED ON PEGS

COMMENTS: UD: UNDETERMINED - COALTAPE IS TOO THICK

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08-Feb-2001

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BBL ALBANY

YVA 10:11 FAX 0001/RT/TT

