



8976 Wellington Road
Manassas, VA 20109

February 25, 2015

Jessica LaClair
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau D
625 Broadway, 12th Floor
Albany, NY 12233-7013

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Subject: 2014 Annual Report, Groundwater Monitoring Program
Former IBM Facility, Owego, New York

Reference: 6NYCRR Part 373 Hazardous Waste Management Permit
No. 7-4930-00095/00005

Dear Ms. LaClair:

Enclosed is the 2014 Annual Report for the Groundwater Monitoring Program at the former IBM facility in Owego, New York. This report is being submitted in accordance with the facility's Part 373 Permit and Groundwater Monitoring Plan. An EDD for the data in this report is also being submitted.

Should you have any questions concerning this report, please contact me at 703-257-2582 or by email at whalen@us.ibm.com.

Sincerely,

Kevin Whalen
Program Manager, IBM Corporate Environmental Affairs

Enclosure

cc: J. Kenney, NYSDOH-BEEI, Albany (w/ encl.)
Regional Engineer, NYSDEC-Region 7, Syracuse (w/ encl.)
W. Hong, Lockheed Martin MS2, Owego (w/ encl.)
RCRA Programs Branch, EPA Region 2, New York (w/o encl.)



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Sincerely,

A handwritten signature in black ink, appearing to read "K Whalen".

Kevin Whalen
Program Manager, IBM Corporate Environmental Affairs

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RCRA Programs Branch, EPA Region 2, New York (w/o encl.)



**2014 ANNUAL REPORT
GROUNDWATER MONITORING PROGRAM
FORMER IBM FACILITY
OWEGO, NEW YORK
6NYCRR PART 373 PERMIT NO. 7-4930-00095/00005**

Prepared for:

**IBM Corporate Environmental Affairs
8976 Wellington Road
Manassas, Virginia 20109**

February 25, 2015

Prepared by:

Groundwater Sciences Corporation
2601 Market Place Street, Suite 310 560 Route 52, Suite 202
Harrisburg, Pennsylvania 17110 Beacon, New York 12508
1108 Vestal Parkway East, Suite 2
Vestal, New York 13850



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Third Quarter 2014 groundwater elevations were measured on October 6, 2014 in the Waste Management Area, Southern and Western Boundary Areas, and Tower View Drive / Mirror Lake Area in the southern part of the Site.

Fourth Quarter 2014 groundwater elevations were measured on July 24, 2014 in the Tank Farm Area and Parking Lot 001 Area in the northern part of the Site.

Third Quarter 2014 groundwater sampling occurred in October 2014 in the Waste Management Area, Southern and Western Boundary Areas, and Tower View Drive / Mirror Lake Area in the southern part of the Site.

Fourth Quarter 2014 groundwater sampling occurred in July 2014 in the Tank Farm Area and Parking Lot 001 Area in the northern part of the Site.

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Plate

Plate 1	Well Location Map - Corrective Action Monitoring Program
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1 INTRODUCTION

This report has been prepared by Groundwater Sciences Corporation (GSC) for the International Business Machines Corporation (IBM). Its purpose is to satisfy the annual reporting requirements for IBM's former Owego, New York facility (the "Site"), located approximately one mile southeast of the village of Owego, New York (Figure 1-1).

1.1 Regulatory Reference

This annual report is being submitted to the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation in accordance with Modules II.H (Corrective Action Program) and III.D (Reporting Requirements for Groundwater Monitoring) of the Site's 6NYCRR Part 373 Hazardous Waste Management Permit (Part 373 Permit) No. 7-4930-00095/00005, with an effective date of March 30, 2010. Groundwater monitoring data generated from January 1 to December 31, 2014, including groundwater extraction volumes, groundwater elevations, and analytical chemistry data, is presented in this report. Groundwater monitoring data generated between January 1 and June 30, 2014 was also presented in the 2014 Semiannual Data Report previously submitted to NYSDEC on August 22, 2014. In accordance with the Module II.H.3 requirements, contaminant levels and the effectiveness of the corrective measures program are evaluated in this report.

1.2 Organization of Report

This report is organized as follows. Section 1.3 provides background on the Groundwater Monitoring Program and Section 1.4 provides an overview of the Site's hydrogeologic setting. Section 2 discusses the groundwater sampling and related data collected during 2014 for the Groundwater Monitoring Program, including extraction well pumping data and quality control (QC) analytical chemistry data. Section 3 evaluates the groundwater extraction, hydrogeology, and groundwater chemistry in various areas of the Site, including the Tank Farm Area (TFA) and the Parking Lot 001 Area (P001 Area) in the northern part of the Site, and the Waste Management Area (WMA), Tower View Drive/Mirror Lake Area (TVD/MLA), Southern Boundary Area (SBA) and Western Boundary Area (WBA) in the southern part of the Site. These areas and all active monitoring and extraction wells are shown on Plate 1.

1.3 Background Information

In June 1987, IBM submitted a Resource Conservation and Recovery Act (RCRA) Post-Closure Permit Application to NYSDEC and the United States Environmental Protection Agency (USEPA) for the Waste Management Area (WMA) at the Site. As required by RCRA regulations, IBM established a quarterly Groundwater Monitoring Program for the Site, including the WMA. The groundwater monitoring network and its operation, maintenance, and reporting conditions were subsequently incorporated into the Site's Part 373 Permit. The Part 373 Permit required the preparation of Groundwater Monitoring Plan (GMP), which NYSDEC approved in March 1995. In conjunction with the renewal of the Site's Part 373 Permit, IBM submitted a new GMP in December 2006. The new GMP was approved by NYSDEC on January 4, 2007 and replaced the original 1995 GMP. The corrective action groundwater monitoring network is explained in detail in the GMP, which includes a description of the groundwater treatment process, wells, sampling frequencies, site-specific parameter list, and semiannual and annual reporting requirements.

1.4 Overview of Site Hydrogeology

The hydrogeology of the former IBM Owego Site consists of three primary geologic zones or units: (1) bedrock, consisting of shale and siltstone of the Devonian West Falls Group; (2) unconsolidated sediments of glacial origin consisting of a dense mixture of clay, silt, sand, gravel, and boulders ("till"); and (3) other unconsolidated sediments of various depositional origins, including alluvium, glaciolacustrine silt, glaciofluvial sands and gravels ("outwash") and fill. The bedrock is weathered to varying degrees on its upper surface, and this zone of weathered bedrock is very thin or absent in some areas. The till and other unconsolidated sediments are discontinuous units that vary greatly in thickness and hydraulic conductivity across the Site. Where they are present, the alluvium and glaciofluvial deposits (primarily outwash sands and gravels) form the principal shallow water-transmitting unit and are referred to in this report as the alluvial zone. The upper part of the bedrock, including the interface between the weathered bedrock and the fine-grained unconsolidated sediments (including the bottom of the till) typically transmits water and is referred to in this report as the till/bedrock zone. The till itself typically exhibits very low hydraulic conductivity and is not an important water-transmitting unit.

The site-wide groundwater elevation contour map shown on Figure 1-2 was constructed for the till/bedrock zone using July 2014 data from the northern part of the Site and October 2014 data from the southern part of the Site. A similar map was published in the 2014 Semiannual Data Report using January and April 2014 data from the till/bedrock zone. Except where influenced by the extraction wells, groundwater flow in the till/bedrock zone is generally from northeast to southwest across the Site toward Barnes Creek, which flows into the Susquehanna River. The Susquehanna River is located approximately 800 feet southwest of the Site's southern boundary, as shown on Figure 1-1.

A second groundwater elevation contour map (Figure 1-3) was constructed for the alluvial zone using July 2014 data from the northern part of the site and October 2014 data from the southern part of the site. This map shows the discontinuous nature of the alluvial zone, where groundwater flow is strongly influenced by the extraction wells in the P001 Area, southern WMA and WBA, and SBA. The alluvial zone is generally absent in the TFA and in the northern portions of the WMA and TVD/MLA.

2 GROUNDWATER MONITORING PROGRAM

Quarterly field activities for the groundwater monitoring program consist of groundwater elevation measurements, groundwater sampling, and well inspections. These activities were performed in accordance with the GMP by qualified field personnel from Groundwater Sciences Corporation.

2.1 Groundwater Extraction Wells

The Site's groundwater extraction and treatment system consists of six extraction wells and a packed-column air stripping tower designed to remove volatile organic compounds (VOCs) from groundwater. As shown on Plate 1, the extraction wells are located in three areas:

1. In the Tank Farm Area, extraction well 415 pumps from the till/bedrock zone;
2. In the Parking Lot 001 Area, extraction well 412 pumps primarily from the alluvial zone, extraction well 413 pumps from till/bedrock zone, and extraction well 414 pumps from both the alluvial and till/bedrock zones;
3. In the Waste Management Area, extraction well 404 pumps from both the alluvial and till/bedrock zones and extraction well 405 pumps primarily from the alluvial zone. Wells 404 and 405 have multiple screened intervals.

Except for brief periods of testing and maintenance, the system has operated continuously since April 1990. About 4.2 billion gallons of groundwater have been extracted and treated since 1985.

2.1.1 Summary of Significant Maintenance Activities

The following significant maintenance activities were performed on the groundwater monitoring wells, extraction wells, and treatment system in 2014:

1. A new pump and flow meter were installed in well extraction 413 on February 7 and November 3.
2. The flow meters were cleaned and calibrated on April 3 and April 16 (annual calibration).

3. The Parking Lot 001 Area extraction wells were cleaned by high-pressure water-jetting on October 23.
4. The discharge line for extraction well 412 was cleaned from November 3 to 10. The well was televised to evaluate the results of the cleaning on November 12.
5. The discharge line for well 413 was cleaned on November 12.
6. Well 415 was treated using chemical recirculation to remove fouling in the well screen on August 11 and October 21.
7. A new pressure transducer was installed in well 414 on November 12.
8. The blower motor in the air stripping tower failed on July 24. The motor was rewired and restarted, and the belts on the blower were changed.

2.1.2 Pumping Volumes

Table A-1 in Appendix A shows pumping volumes for the extraction wells in the Waste Management Area (wells 404 and 405), Parking Lot 001 Area (wells 412, 413, and 414) and Tank Farm Area (well 415). This table shows the gallons pumped monthly in 2014 from each metered well. (In the P001 Area, extraction well 413 is equipped with a submersible pump and is separately metered from extraction wells 412 and 414, which share a jet pump and are not separately metered.) The volume of groundwater extracted in 2014 was 135.0 million gallons (Mgal), within about six percent of the average annual flow from 2010 to 2014.

2.1.3 Evaluation of Treatment Efficiency

Treatment efficiency for the groundwater treatment system was calculated by comparing concentrations of VOCs in the GTF influent with the concentrations of VOCs in the treated effluent discharged from the air stripping tower. The influent and effluent were sampled monthly in 2014 in accordance with the Site's National Pollutant Discharge Elimination System (NPDES) Permit Number NY0244597. No EPA Method 624 VOCs were detected in any of the monthly effluent samples collected in 2014, resulting in a removal efficiency approaching 100 percent.

2.2 Groundwater Monitoring Wells

The Site's Corrective Action Monitoring Program consists of 140 wells. Physical specifications for the monitoring and extraction wells used in 2014 are listed on Table B-1 of Appendix B.

2.2.1 Groundwater Elevation Measurements

Groundwater elevations were measured in the 140 wells listed on Table B-2a of Appendix B. These include 130 on-Site wells, four offsite wells (540, 541, 542, 543) in the Route 17C interchange area south of the Southern Boundary Area, and six offsite wells (521, 522, 524, 529, 532, 534) on the Moore Tire property located west of the P001 Area.

Groundwater elevations were measured quarterly on January 6, April 8, July 24, and October 6, 2014. The tabulated groundwater elevation data for 2014 are presented in Appendix C. Groundwater elevation data for prior years has been published in previous annual reports and is maintained in a web-accessible geographic information system (GIS) database by Conestoga-Rovers and Associates (CRA). Groundwater elevations were calculated by subtracting the measured depth to water from the surveyed elevation of the measuring point listed in Appendix C. The designated measuring point is typically the top of the inner well casing ("TOC Elevation").

2.2.2 Monitoring Well Inspections and Dedicated Equipment

In addition to the inspection performed when each monitoring well was sampled, a comprehensive annual inspection of the well field was performed during the January and April 2014 sampling events. This inspection included the following items: (1) measurement of depth to well bottom and comparison of this depth to the reference depth to determine the need for redevelopment, (2) assessment of the legibility of the well tag and visibility of the survey mark, (3) determination of whether the well standpipe needs to be painted and whether the location should be cleared of brush/weeds, (4) assessment of the condition of the well seal, and (5) description of dedicated equipment (if any) and the condition of the bailer cable.

The well inspection summary table in Appendix C also shows the type of sampling device used in each well. Polyethylene diffusion bag (PDB) sampling devices are used in many monitoring wells

and significantly reduce the volume of purge water generated during groundwater sampling. The PDB samplers are typically set at the midpoint of the water column in each well.

2.2.3 Groundwater Sampling

Table B-2b of Appendix B lists the wells that are required by the GMP to be sampled and analyzed quarterly, semiannually, or annually. Other wells not listed on Table B-2b of the GMP were sampled voluntarily to supplement the GMP sampling plan; this supplemental list includes the groundwater extraction wells when they are pumping.

The 2014 sampling schedule for the groundwater monitoring program is summarized in Appendix D. For wells sampled semiannually, a staggered quarterly sampling arrangement was approved by NYSDEC whereby the sampling events in the northern and southern parts of the Site are scheduled in alternating quarters so as to evenly distribute the sampling field work over the course of the year.

The quarterly sampling events for 2014 occurred on January 7 to 10, April 8 to 11, July 28 to 31, and October 6 to 10. All groundwater samples collected during 2014 were analyzed by Eurofins Lancaster Laboratories Environmental (NYSDOH ELAP #10670). The completed chains of custody for the third and fourth quarters of 2014 are reproduced in Appendix E of this report. The chains of custody for the first and second quarters were published in Appendix E of the 2014 Semiannual Data Report.

None of the wells that were scheduled to be sampled in the northern part of the Site during the first and third quarters was dry. (Well 114 in the TFA was dry in January and July, but is not routinely sampled). Of the wells that were scheduled to be sampled in the southern part of the Site during the second and fourth quarters, only wells 387 and 620 were dry in October.

The remainder of this section discusses the analytical results for environmental samples collected during 2014, including groundwater monitoring well, extraction well, and QA/QC samples.

2.2.3.1 Groundwater Chemistry Results

Chemistry data generated from groundwater monitoring activities is maintained in a web-accessible GIS database by CRA. This GIS database contains groundwater analytical chemistry and field

quality control (QC) data from 1993 to the present. Analytical chemistry data generated by the laboratory is transmitted to CRA and GSC electronically. The data is periodically reviewed for outliers, new high or low concentrations, and missing data.

A summary printout of the groundwater analytical chemistry data for all samples collected in 2014 from monitoring wells and extraction wells is presented in Appendix F. This summary includes results for pH, temperature, turbidity, and specific conductance measured in the field at the time of sampling. The summary data presented in Appendix F are shown in alphanumeric ascending order by sample location, and chronologically by sample date for each location.

2.2.3.1.1 Volatile Organic Compounds

The principal chemicals detected and of concern at the Site are chlorinated ethanes and ethenes. These and other VOCs are discussed further in Section 3.3.1. A total of 13 VOCs were detected in groundwater in 2014 at concentrations greater than the New York State Groundwater Quality Standard (NYSGQS).

Table 2-1 lists the 16 parameters analyzed in groundwater for the Site's Groundwater Monitoring Program together with the NYSGQS for each parameter, the maximum concentration of each parameter measured in 2014, and the monitoring well and extraction well where the maximum concentration was detected. Dichlorodifluoromethane (Freon 12) has not been detected at concentrations greater than its NYSGQS (5 ug/l) since 2007 and trichloromethane (chloroform) has not been detected at concentrations greater than its NYSGQS (7 ug/l) since 2008. Freon 11 has not been detected in any groundwater sample since January 2006.

Table 2-1. Analytical Parameters for the Groundwater Monitoring Program*			
Parameter	NYSGQS (ug/l)	Maximum Concentration Measured in a Monitoring Well in 2014	Maximum Concentration Measured in an Extraction Well in 2014
<i>Detected at a concentration greater than the NYSGQS:</i>			
1,1,1-Trichloroethane (111-TCA)	5	4,900 ug/l @ 353	2,800 ug/l @ 415
1,1-Dichloroethane (11-DCA)	5	2,600 ug/l @ 609	2,000 ug/l @ 415
1,1-Dichloroethene (11-DCE)	5	2,300 ug/l @ 353	1,900 ug/l @ 415
Tetrachloroethene (PCE)	5	22 ug/l @ 610	37 ug/l @ 415
Trichloroethene (TCE)	5	4,600 ug/l @ 353	2,700 ug/l @ 415
cis-1,2-Dichloroethene (c12-DCE)	5	430 ug/l @ 128	4,700 ug/l @ 415
Vinyl chloride	2	25 ug/l @ 625	280 ug/l @ 415
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	480 ug/l @ 609	270 ug/l @ 415
1,2-dichloro-1,2,2-trifluoroethane (Freon 123a)	5	69 ug/l @ 609	26 ug/l @ 414
Methylene chloride (DCM)	5	9.9 ug/l @ 612	1.2 ug/l @ 414
Chloroethane	5	51 ug/l @ 521	2.0 ug/l @ 412
1,2-Dichloroethane	0.6	2.3 ug/l @ 612	0.2 ug/l @ 413
1,1,2-Trichloroethane	1	6.7 ug/l @ 128	10 ug/l @ 415
<i>Not detected at a concentration greater than the NYSGQS:</i>			
Dichlorodifluoromethane (Freon 12)	5	3.4 ug/l @ 382	Not detected
Trichloromethane (Chloroform)	7	1.7 ug/l @ 183	1.5 ug/l @ 412
Trichlorofluoromethane (Freon 11)	5	Not detected	Not detected
*from Table 1-1 of <i>Groundwater Monitoring Plan, Former IBM Facility, Owego, New York</i> (December 2006). NYSGQS = New York State Groundwater Quality Standard (from 6 NYCRR Part 703.5, Table 1, Class GA) ug/l = micrograms per liter			

2.2.3.2 Quality Control Results for Environmental Blanks

Environmental blanks, consisting of equipment rinse blanks and trip blanks, were collected and analyzed in 2014 for quality control purposes. The analytical chemistry data for these environmental blank samples is presented in Appendix G.

Trip blanks were prepared by the laboratory for each sampling round using analyte-free deionized (DI) water for each cooler containing VOC samples. The purpose of the trip blanks is to detect contamination during transportation or storage. A trip blank was the first item placed into each cooler by the laboratory and accompanied the sample containers from the laboratory to the field sampling locations and back to the laboratory. Seventeen trip blanks were collected in 2014 and the analytical results for these trip blanks are presented in Appendix G. Groundwater samples associated with each trip blank can be determined by noting the dates over which the trip blanks are valid (refer to “Sample Description” heading in Appendix G).

Equipment rinse blanks were collected to confirm the efficiency of decontamination procedures by rinsing non-dedicated equipment such as water level indicators with analyte-free deionized water and catching the rinse water in sample bottles for analysis. Sixteen equipment rinse blanks were collected in 2014 from water level indicators and the analytical results for these blanks are presented in Appendix G.

Eight VOCs on the Site’s parameter list (Table 2-1) were detected in environmental blanks in 2014; however, only one VOC was detected at a concentration greater than 0.5 ug/l: TCE was detected in all of the equipment rinse blanks and trip blanks at concentrations ranging from 0.4 to 1.5 ug/l. None of the groundwater analytical chemistry results from monitoring wells appear to be correlated with these detections. However, groundwater analytical chemistry data would be qualified as necessary in accordance with EPA Region 2 data validation procedures.

3 EVALUATION OF HYDROGEOLOGY AND HYDROGEOCHEMISTRY

This section is an evaluation of the groundwater monitoring data collected during 2014. Current data are presented in the form of potentiometric and isoconcentration contour maps and are also evaluated in the context of historical trends. As required by the Site's Part 373 Permit, this evaluation includes a delineation of the limits of hydraulic control in areas with sufficient data for such delineation.

3.1 Groundwater Extraction

As noted in Section 2.1.2, Table A-1 of Appendix A contains a table of volumes pumped in 2014 from the Site's groundwater extraction wells.

3.1.1 Northern Part of the Site

Hydraulic control and contaminant removal in the northern part of the Site is accomplished by the operation of the TFA and P001 Area extraction wells.

3.1.1.1 Parking Lot 001 Area

The locations of the three extraction wells in the P001 Area (412, 413, and 414) are shown on Plate 1. The monthly flow from the P001 extraction wells in 2014 ranged from 403,000 to 562,000 gallons, as shown on the table of extraction well pumping volumes, Table A-1 of Appendix A. Although extraction wells 412 and 414 combined pump about one third less water than extraction well 413, the concentrations of total VOCs in wells 412 and 414, which pump from the alluvial zone, are much higher than in well 413, which pumps only from the till/bedrock zone. Consequently, extraction wells 412 and 414 together recovered about 75 percent of the of total VOC mass that was removed from the P001 Area in 2014 (36 of 48 pounds).

3.1.1.2 Tank Farm Area

TFA extraction well 415 (Plate 1) pumps from the till/bedrock zone. In comparison to the P001 Area and WMA extraction wells, the volume extracted from well 415 is low and accounted for less than 0.3% of groundwater extraction at the Site in 2014. However, the concentration of total VOCs in well 415 is high relative to all of the other extraction wells and, consequently, the total VOC

mass recovered by well 415 (about 29 pounds) is significant when compared to the VOC mass recovered by the P001 Area extraction wells.

3.1.2 Southern Part of the Site

Wells 404 and 405 extract groundwater in the southern part of the Site and accounted for more than 95% of the groundwater volume pumped in 2014. As shown in Appendix A, combined monthly flows from the two WMA extraction wells ranged from 9.2 to 12.3 Mgal in 2014, with an average of 10.8 Mgal, about the same as in 2013.

3.2 Hydrogeology

As explained in Section 1.2 and shown on Plate 1, the TFA is located in the northeastern part of the Site and the P001 Area is located in the northwestern part of the Site. The WMA, TVD/MLA, WBA, and SBA are all located in the southern part of the Site. The hydrogeology of the northern and southern parts of the Site is discussed separately in the following sections.

3.2.1 Tank Farm Area

The geologic units in the TFA consist primarily of till overlying bedrock, with some localized areas of fill. The monitoring wells in this area are completed in the fill, till, till/bedrock zone, or shallow bedrock. The shallow “alluvial zone” water-bearing unit present to the west of the TFA appears to be absent in the TFA itself. The till/bedrock zone is the most important water-transmitting unit in the TFA and extraction well 415 is screened in this unit.

The groundwater flow divide shown on the site-wide groundwater elevation contour map for the till/bedrock zone on July 24, 2014 (Figure 1-2) delineates the area where groundwater is captured by extraction well 415. Outside this area of capture, the direction of groundwater flow in the till/bedrock zone is generally to the west toward the P001 Area and to the southwest toward the TVD/MLA.

3.2.2 Parking Lot 001 Area

The P001 Area is underlain by a bedrock valley originating as a closed depression in the bedrock surface with its deepest point situated between till/bedrock wells 393 and 395. Subsurface investigations in the early 1990s determined that the buried bedrock valley extends westward from

this depression, passing through a narrow throat at bedrock well 378 on Lakeview Parkway (Plate 1), and opening up offsite to the southwest of well 378 beneath the Moore Tire property. In the P001 Area, this bedrock valley contains four hydrogeologic units, from lowermost to uppermost: (1) weathered bedrock, (2) till, (3) sand, silt, and gravel, and (4) fill, which is more than 20 feet thick in some places. The primary water-bearing units in the P001 Area are the till/bedrock zone (straddling units 1 and 2) and the alluvial zone (unit 3).

Detailed groundwater elevation contour maps have been constructed semiannually since 1993 for both the till/bedrock zone and the alluvial zone in the P001 Area. Figure 1-2 shows the groundwater elevation contours for the till/bedrock zone in the P001 Area on July 24, 2014. The generalized direction of groundwater flow in the till/bedrock zone is indicated by the flow arrows on this map, and the hydraulic influence of P001 Area extraction wells 413 and 414 in the till/bedrock zone is apparent. Figure 1-2 also shows a groundwater flow divide located in the vicinity of Lake View Parkway. On the eastern side of this flow divide, groundwater flow in the till/bedrock zone is captured by the P001 Area extraction wells. On the western side of the divide, groundwater flows to the southwest across the Moore Tire property and back onto the Site in the northern part of the WMA. This groundwater flow in the till/bedrock zone is ultimately captured by WMA extraction well 404.

The location of this groundwater flow divide in the till/bedrock zone fluctuates in response to variability in pumping rates of the P001 Area extraction wells. During periods of reduced pumping, the flow divide lies farther east of the property line between the Site and the Moore Tire and Owego Bowl properties, and closer to the P001 Area extraction wells.

Figure 1-3 shows the groundwater elevation contours for the alluvial zone in the P001 Area on July 24, 2014. The hydraulic influence of P001 Area extraction wells 412 and 414 on groundwater flow in the alluvial zone is similar that shown on Figure 1-2 for wells 413 and 414 in the till/bedrock zone. The groundwater flow divide in the alluvial zone during the third quarter of 2014 was located mostly west of Lake View Parkway. Groundwater in the alluvial zone east of the flow divide is captured by the P001 Area extraction wells. Groundwater west of the divide flows to the southwest through a zone of coarse alluvium extending across the center of the Moore Tire property and back onto the Owego facility north of Building 352. As is the case with groundwater in the till/bedrock

zone, groundwater in the alluvial zone that is not captured by the P001 Area extraction wells is ultimately captured by the WMA extraction wells.

3.2.3 Southern Areas

Weathered bedrock and till overlie competent bedrock in the southern part of the Site. In the southern and central portions of the southern part of the Site, till is overlain by relatively permeable outwash sand and gravel and, in some areas, by low-permeability glaciolacustrine silt. The entire area is covered by a surficial layer of post-glacial alluvium. (Note: This surficial alluvium is different from the deeper “alluvial zone” discussed elsewhere in this report.)

3.2.3.1 Tower View Drive and Waste Management Areas

The direction of groundwater flow in the till/bedrock zone in the southern part of the Site on October 6, 2014 is shown by the flow arrows on Figure 1-2. In the east-central portion of the Site, groundwater generally flows to the southwest through the TVD/MLA and toward WMA extraction well 404. Groundwater flow in the till/bedrock zone through the northern portion of the WMA is generally to the southwest toward WMA extraction well 404. Extraction well 405 pumps primarily from the alluvial zone (sand and gravel) and, therefore, does not significantly affect groundwater flow in the till/bedrock zone.

3.2.3.2 Southern Boundary Area

As shown on Figure 1-3, flow in the till/bedrock zone of the SBA is generally to the northeast and north toward extraction well 404. The limit of groundwater capture by WMA extraction well 404 in the till/bedrock zone extends off-Site to the south of the railroad tracks (Figure 1-2, note potentiometric contour “793”).

An alluvial zone consisting primarily of sand and gravel overlies till in the SBA. As shown on Figure 1-3, horizontal gradients in the alluvial zone of the SBA are very low (less than 0.01) in the vicinity of the railroad tracks. These low gradients are indicated by groundwater elevations ranging from 794.12 feet to 794.51 feet over an area of several acres at wells 101, 323, 319, 627, 322, 318, 625 and 356. The southern limit of capture by WMA extraction wells 404 and 405 in the alluvial zone is shown by the groundwater flow divide passing through well 323 and the “794.50” potentiometric contour.

3.3 Hydrogeochemistry

This section of the annual report presents an analysis of the chemical concentration data collected in 2014, including an assessment of trends at specific locations.

3.3.1 Chemicals of Concern

As noted in Section 2.2.3.1.1, the chemicals of concern at the Site include chlorinated ethanes, chlorinated ethenes, and several other compounds.

3.3.1.1 Chlorinated Ethanes

The chlorinated ethanes present in groundwater include 1,1,1-trichloroethane (111-TCA), 1,1-dichloroethane (11-DCA), and chloroethane. 111-TCA is a primary solvent used in many industrial applications. 111-TCA degrades to 11-DCA anaerobically by biologically-mediated reductive dechlorination under methanogenic conditions and degrades to 1,1-dichloroethene (11-DCE, an ethene) by dehydrohalogenation, which is an abiotic elimination reaction common in groundwater. Under conditions favorable to sequential reductive dechlorination, 11-DCE may degrade further to chloroethene (vinyl chloride, VC) and 11-DCA may degrade to chloroethane (CEA). Biodegradation of 11-DCE to VC requires sulfate-reducing or methanogenic (i.e., anaerobic) conditions that may exist in some areas of the site. An alternative source of 11-DCA in groundwater is not from degradation of 111-TCA, but rather as an impurity in the manufacture of 111-TCA, where 11-DCA was used as an intermediate.

3.3.1.2 Chlorinated Ethenes

The chlorinated ethenes present in groundwater include trichloroethene (TCE), cis-1,2-dichloroethene (c12-DCE), 11-DCE, and VC. TCE is a primary solvent used in various industrial applications and degrades to c12-DCE (preferentially) or to trans-1,2-dichloroethene under conditions favorable to biologically-mediated reductive dechlorination. As noted in Section 3.3.1.1, 11-DCE (an ethene) is created by abiotic dehydrohalogenation of 111-TCA (an ethane). VC is created by sequential reductive dechlorination of both c12-DCE and 11-DCE.

3.3.1.3 Other Compounds

Other compounds present in groundwater at the Site include methylene chloride (dichloromethane, DCM), Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane), and Freon 123a (1,2-dichloro-1,2,2-trifluoroethane), which is created by the reductive dechlorination of Freon 113 in groundwater. The distribution of methylene chloride is limited to a few wells in the TFA and P001 Area because it degrades both aerobically and anaerobically and is rarely transported beyond the immediate vicinity of a source zone. Freon 113 and Freon 123a are detected in limited areas of both the alluvial and till/bedrock zones with the highest concentrations in the till/bedrock zone at monitoring wells 393, 395, and 609 in the P001 Area, and at extraction well 415 in the TFA.

3.3.1.4 Normalization of Chlorinated Ethane and Ethene Concentrations

As noted above, degradation of 111-TCA and TCE, the principal contaminants at the Site, can occur biotically or abiotically under either aerobic or anaerobic conditions. Due to the complexity of possible degradation pathways and rates, characterizing the spatial and temporal changes in concentrations of chlorinated ethanes and ethenes can be difficult if one only examines the individual chemical species (i.e., 111-TCA, 11-DCA, 11-DCE, TCE, c12-DCE, VC, etc.). Therefore, instead of preparing separate isoconcentration contour maps and concentration vs. time trend graphs for each chemical species, we have normalized the chemical concentrations to account for the loss of chlorine ions via mechanisms such as anaerobic biodegradation and abiotic dehydrogenation. As explained below, this normalization is performed by expressing the concentrations of the chemical degradation species in terms of the parent chemicals 111-TCA and TCE.

The TCA-series concentration is calculated by multiplying concentrations of 11-DCA, 11-DCE, and chloroethane by the ratio of the molecular weight of 111-TCA to the molecular weight of each degradation product, and then summing the products. In this way, all concentrations of 111-TCA, 11-DCA, 11-DCE, and chloroethane dissolved in groundwater for a particular sample are expressed as a total TCA-series concentration, thereby approximating the concentration of 111-TCA which theoretically could have been measured if 111-TCA had not been degraded. (Note: Although 11-DCE is an ethene compound, we include it in the TCA-series group of VOCs because its source is believed to be primarily from degradation of 111-TCA, an ethane compound). The same

procedure was performed for the ethene compounds such that TCE, c12-DCE, and vinyl chloride concentrations are expressed as a total TCE-series concentration. The formulas for calculating these series concentrations are shown on Figures 3-1 through 3-4, which are isoconcentration contour maps for these normalized TCA-series and TCE-series parameters. These maps are discussed in the following sections.

3.3.2 Tank Farm Area and Parking Lot 001 Area

The following discussion focuses on the groundwater chemistry of the alluvial and till/bedrock zones in the Tank Farm Area and Parking Lot 001 Area in the northern part of the Site.

3.3.2.1 Alluvial Zone Chemistry

Figures 3-1 and 3-2 are isoconcentration contour maps for the TCA- and TCE-series parameters in the alluvial zone, which includes sand and gravel units of glacial origin as well as more recent alluvium. The isoconcentration contours shown on these two figures have not been extended to the east of the P001 Area and into the Tank Farm Area because the alluvial zone is generally absent or has not been well-defined in that area. (Fill and till lie directly on top of bedrock in most of the TFA.) Figures 3-1 and 3-2 show plumes of both TCA- and TCE-series parameters extending from an area of concentrations historically greater than 1,000 ug/l (but now less than 1,000 ug/l) in the vicinity of well 613, to the southwest toward the southeast corner of the Moore Tire property (see well 383). These same constituents also are present in five on-site wells (398, 601, 602, 603, and 608) in the extreme western portion of the P001 Area north of Building 352 and north of the WMA. East of the groundwater flow divide shown on Figures 3-1 and 3-2, the TCA- and TCE-series plumes are captured by P001 Area extraction wells 412 and 414. The groundwater flow divides on Figures 3-1 and 3-2 are the same as the divides shown on the groundwater elevation contour map for the alluvial zone (Figure 1-3).

3.3.2.2 Till/Bedrock Zone Chemistry

Isoconcentration contour maps for TCA- and TCE-series parameters in the till/bedrock zone are shown on Figures 3-3 and 3-4. The TCA-series and TCE-series plumes in the northern part of the Site extend from the Tank Farm source area westward toward the P001 Area extraction wells and across Lakeview Parkway onto the Moore Tire property west of the P001 Area extraction wells.

The plumes in the TFA with concentrations greater than 1,000 ug/l are mostly captured by extraction well 415. P001 Area extraction wells 413 and 414 intercept groundwater plumes between the eastern groundwater flow divide created by extraction well 415 in the TFA and the western flow divide situated around Lake View Parkway. These flow divides are identical to those shown on the groundwater elevation contour map for the till/bedrock zone (Figure 1-2).

Figure 3-5 shows the distribution of methylene chloride in July 2014 in the till/bedrock zone. Methylene chloride was detected in only a few wells shown on Figure 3-5. The maximum concentration of methylene chloride detected in 2014 was 9.9 ug/l at monitoring well 612 and the small methylene chloride plume that remains is captured by extraction well 414.

3.3.3 Southern Areas

The isoconcentration contour maps (Figures 3-1 through 3-4) show the distribution of TCA- and TCE-series parameters in the southern part of the Site during the fourth quarter of 2014. Methylene chloride was not contoured in the southern part of the Site because it was not detected there.

3.3.3.1 Alluvial Zone Chemistry

The distributions of TCA- and TCE-series parameters in the alluvial zone of the southern part of the Site are shown on Figures 3-1 and 3-2.

In the southern alluvial zone, a low-level (less than 10 ug/l) TCA-series plume (Figure 3-1) is located in the vicinity of monitoring wells 318, 319, 322, 323, 625, and 627 near the southern boundary of the Site. This plume does not appear to extend off-Site because TCA-series parameters were not detected at series concentrations greater than 0.1 ug/l in offsite wells 540, 541, 542, and 543 in October 2014. In contrast, the TCE-series plume in the southern alluvial zone (Figure 3-2) extends offsite, south of the railroad tracks in the Route 17C interchange, where low concentrations of VOCs (less than 2 ug/l) were detected at wells 541, 542, and 543 in October 2014, as shown on Figure 3-2.

Figure 3-1 shows a TCA-series plume originating on-Site in the central TVD/MLA and in the central part of the WMA. TCA-series concentrations at monitoring wells 621 (240 ug/L) and 623 (53 ug/l) suggest that this plume is captured by WMA extraction wells 404 and 405. The southern

limit of the TCA-series plume in the TVD/MLA lies north of shallow monitoring well 374 on the north side of Mirror Lake (Figure 3-1), where concentrations are typically at or below the limits of detection (0.1 ug/l for individual VOC species). Well 374 monitors a shallow alluvial unit that is different from the alluvial zone outwash unit monitored by other wells in the southern part of the Site.

3.3.3.2 Till/Bedrock Zone Chemistry

Figures 3-3 and 3-4 show the TCA- and TCE-series isoconcentration contours for the till/bedrock zone. With regard to the distribution of TCA-series parameters in the southern part of the Site, Figure 3-3 shows a plume originating north of Tower View Drive near the southern end of Building 002, a plume originating from off-Site west of Barnes Creek near wells 160 and 162, and a plume centered on the northern part of the WMA near well 148 east of Building 352 and northeast of the Old Waste Treatment Plant (designated “Old WTP” on the maps). The TVD/MLA and WMA TCA-series plumes (Figure 3-3) merge south of the Old WTP, and are captured by WMA extraction well 404.

The TCE-series isoconcentration contour map for the till/bedrock zone in the southern part of the Site is shown on Figure 3-4. Like the map showing the distribution of TCA-series parameters (Figure 3-3), this map shows a plume with concentrations greater than 100 ug/l being drawn onto the Site from the west near monitoring wells 160 and 162 and a plume centered on the Old WTP with a lobe extending to the south toward SBA monitoring well 628.

3.3.4 Graphical and Statistical Evaluations

In addition to evaluating the maximum concentrations of individual VOCs in groundwater relative to groundwater standards, as shown on Table 2-1, trends in the concentration of VOCs in groundwater were evaluated graphically using plots of concentrations vs. time and statistically using non-parametric tests.

3.3.4.1 Concentration vs. Time

Graphs of TCA- and TCE-series concentrations versus time for key monitoring and extraction wells for the years 2000 through 2014 are shown on Figure 3-6. These wells are located either near the

boundaries of the Site in the P001, TFA, SBA, and WMA, or off-Site in the Moore Tire Area. They represent the wells that are sampled quarterly in accordance with the sampling plan presented in Appendix D.

3.3.4.2 Statistical Tests for Trend

Concentration trends in many of the wells shown on Figure 3-6 are apparent by inspection of the concentration vs. time graphs. To determine whether the observed graphical trends in chemical concentrations over time are statistically significant, groundwater analytical chemistry data was evaluated using a non-parametric statistical test, as specified in Section 7.3.3 of the Groundwater Monitoring Plan. This statistical test for trend, the Mann-Kendall test, is based on the concept that a lack of trend should correspond to a time-series plot fluctuating randomly about a constant mean level, without a visually apparent upward or downward pattern. If an increasing trend really exists, then the sample taken first from any randomly selected pair of measurements should have a lower concentration, on average, than the measurement collected at a later point. The Mann-Kendall test does not require that the data be normally distributed and is valid even where data are missing, tied, or censored at the reporting limit (e.g., “not detected at limit X”).

ProUCL version 4.1, a statistical software package, was used to identify statistically significant trends at a significance level of $\alpha = 0.05$, which corresponds to a confidence limit of 95%. ProUCL was created for USEPA to address statistical issues described in various CERCLA and RCRA guidance documents. The period for trend analysis was eight years (32 quarterly samples) from January 2007 to October 2014.

The test results for concentration trends at 19 wells are summarized on Table 3-1. The TCA-series and TCE-series trends were tested separately for each well. As shown on Table 3-1, the concentration trend in 11 of the 38 tests is indeterminate, i.e., neither a statistically increasing nor decreasing trend could be confirmed. Three of the 14 test results that were indeterminate for the period 2007-2013 in the previous annual report now indicate a decreasing trend.

In the P001 Area, concentrations of TCE-series parameters are increasing over the 8-year test period at till/bedrock monitoring well 393 near Lake View Parkway and at extraction wells 412, 413, and

414. The concentration trend for TCA-series parameters at well 393 is also increasing over the same period.

In the Tank Farm Area, concentrations of both TCA-series and TCE-series parameters are decreasing at extraction well 415 (based on nearly six years of data since the well began pumping in March 2009).

In the off-Site Moore Tire Area, concentrations of TCA- and TCE-series parameters are either decreasing or indeterminate at alluvial zone monitoring wells 529, 532, and 534, and are increasing at till/bedrock zone monitoring well 522.

In the Southern Boundary Area, concentrations of both TCA- and TCE-series parameters in the alluvial zone are decreasing at monitoring wells 625 and 322 near the Site's southern property boundary; these trends are easily confirmed by inspection of the corresponding concentration vs. time graphs on Figure 3-6. The TCA-series trend at well 319 is also decreasing. At well 323 farther to the north, concentrations of TCE-series parameters are decreasing over the 8-year test period, although this trend is not readily apparent on inspection of the concentration vs. time graph, where it appears there are significant seasonal variations in concentration. North of well 625, concentrations of both TCA-series and TCE-series parameters are increasing at well 318. Concentrations of TCE-series parameters are also increasing at well 319, although this trend is not obvious on inspection of the well's concentration vs. time graph. Well 319 is the only well tested where the concentration trend is increasing for TCE-series parameters and decreasing for TCA-series parameters.

Finally, in the Waste Management Area, the trend in TCE-series concentrations is decreasing at extraction well 404, which pumps from both the alluvial zone and from the till/bedrock zone. The graphical concentration trends at alluvial zone extraction well 405 (Figure 3-6) are flat, neither increasing nor decreasing, and are confirmed by the Mann-Kendall test results.

**Table 3-1. Statistical Evaluation of Trends in Water Quality
at Quarterly Monitoring Wells (2007-2014)**

Site Area	Well	TCA-Series Trend	TCE-Series Trend	Hydrogeologic Zone Monitored
P001 Area (Monitoring)	393	Increasing	Increasing	Till/Bedrock
	399	Decreasing**	None	Alluvial
	606	Decreasing	Decreasing	Alluvial
	607	None	Decreasing	Till/Bedrock
P001 Area (Extraction)	412	None	Increasing	Alluvial
	413	None	Increasing	Till/Bedrock
	414	Decreasing	Increasing	Alluvial & Till/Bedrock
Tank Farm Area* (Extraction)	415	Decreasing	Decreasing	Till/Bedrock
Moore Tire Area (Off-Site Monitoring)	522	Increasing	Increasing	Till/Bedrock
	529	None	Decreasing**	Alluvial
	532	None	None	Alluvial
	534	Decreasing**	Decreasing**	Alluvial
Southern Boundary Area (Monitoring)	318	Increasing	Increasing	Alluvial
	319	Decreasing	Increasing	Alluvial
	322	Decreasing	Decreasing	Alluvial
	323	None	Decreasing	Alluvial
	625	Decreasing	Decreasing	Alluvial
Waste Management Area (Extraction)	404	None	Decreasing	Alluvial & Till/Bedrock
	405	None	None	Alluvial
The Mann-Kendall test was used to evaluate concentration trends at a significance level of $\alpha = 0.05$. “None” means that the concentration trend is indeterminate. * Nearly six years of data (23 quarters) from 2009-2014 was available for extraction well 415. ** May not be significant because most detections are less than 1 ug/L.				

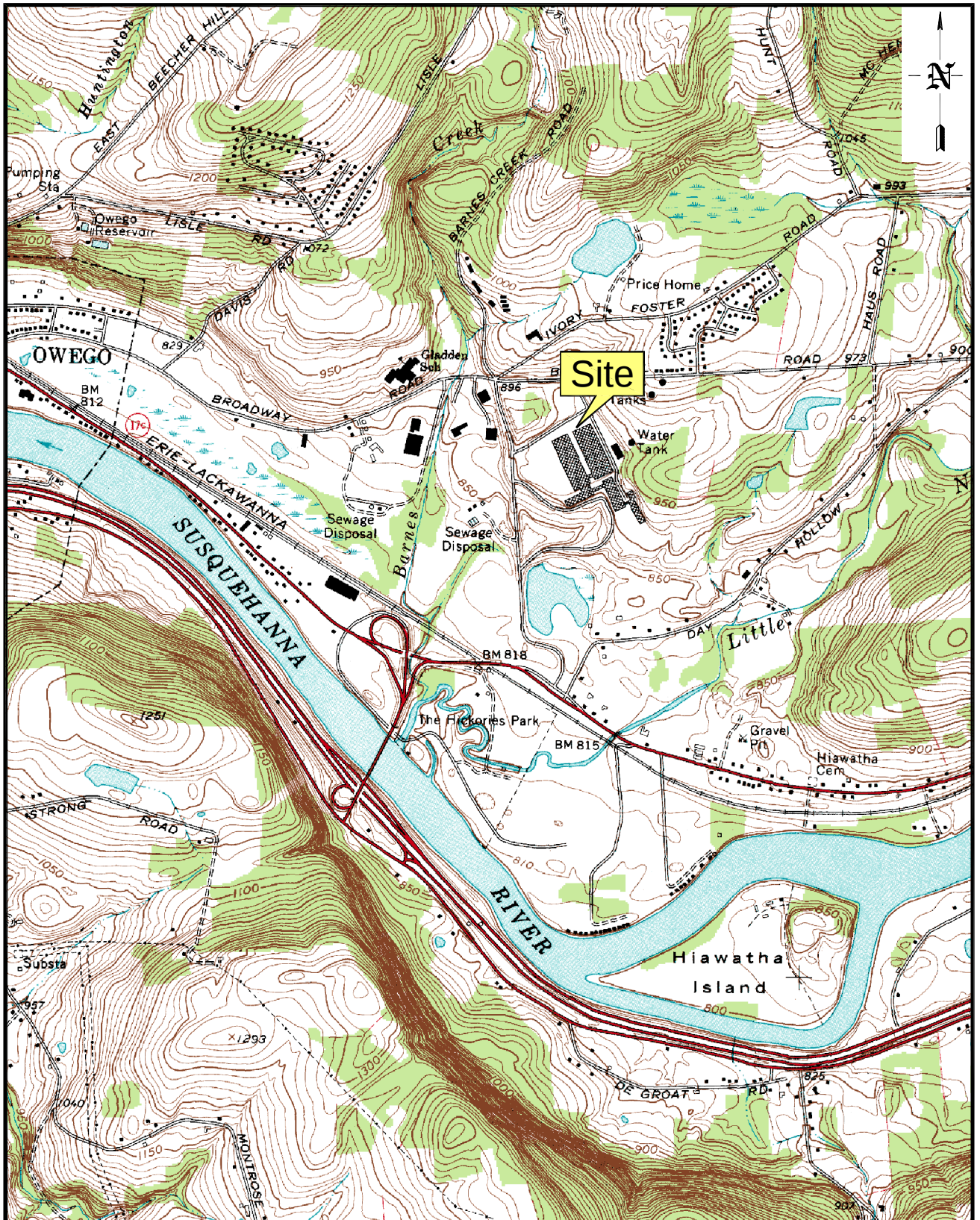
3.3.5 VOC Mass Removal

Table A-2 in Appendix A shows the dissolved VOC mass pumped by the groundwater extraction wells during 2014 and subsequently removed via the Site's packed-column air stripping tower. The total VOC mass was calculated by multiplying the monthly GTF influent concentration from NPDES compliance sampling by the monthly volume of groundwater pumped through the air stripping tower. [Note: The volume pumped through the air stripper (136.4 Mgal) differs slightly (by about 1%) from the total volume pumped from the extraction wells (135.0 Mgal) due to metering differences.] By these calculations, the total VOC mass removed from groundwater in 2014 was 325 pounds, for a cumulative total VOC removal of 6,200 pounds since 1998.

3.3.6 Maps of Total VOCs, TCA, and TCE

As required by the GMP, Figure 3-7 is a map showing the total concentration in groundwater of VOCs on the Site's parameter list, as specified on Table 1-1 of the GMP and Module II, Table II-3 of the Part 373 Permit. The map shows results for northern wells sampled during the third quarter of 2014 and southern wells sampled during the fourth quarter of 2014. The total VOC value posted at each well has been rounded to two significant figures (or to one significant figure if less than 1 ug/l).

As required by the GMP, Figures 3-8 and 3-9 are maps of the TCA and TCE distribution, respectively, showing only these VOCs and not the sum of their transformation series component VOCs. The approximate boundaries of both the alluvial and till/bedrock zone plumes at a limit of 1 ug/l are not shown on these maps. However, these boundaries would be similar to the plume limits shown on the TCA- and TCE-series isoconcentration maps (Figures 3-1 through 3-4) because TCA and TCE are significant contributors to the total VOC concentration at most of the monitoring wells.

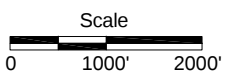


Portion of the Apalachin, NY
7.5-minute USGS Quadrangle
(1988)

Figure 1-1



Site Location Map



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93004-068-A5 / 2-20-09

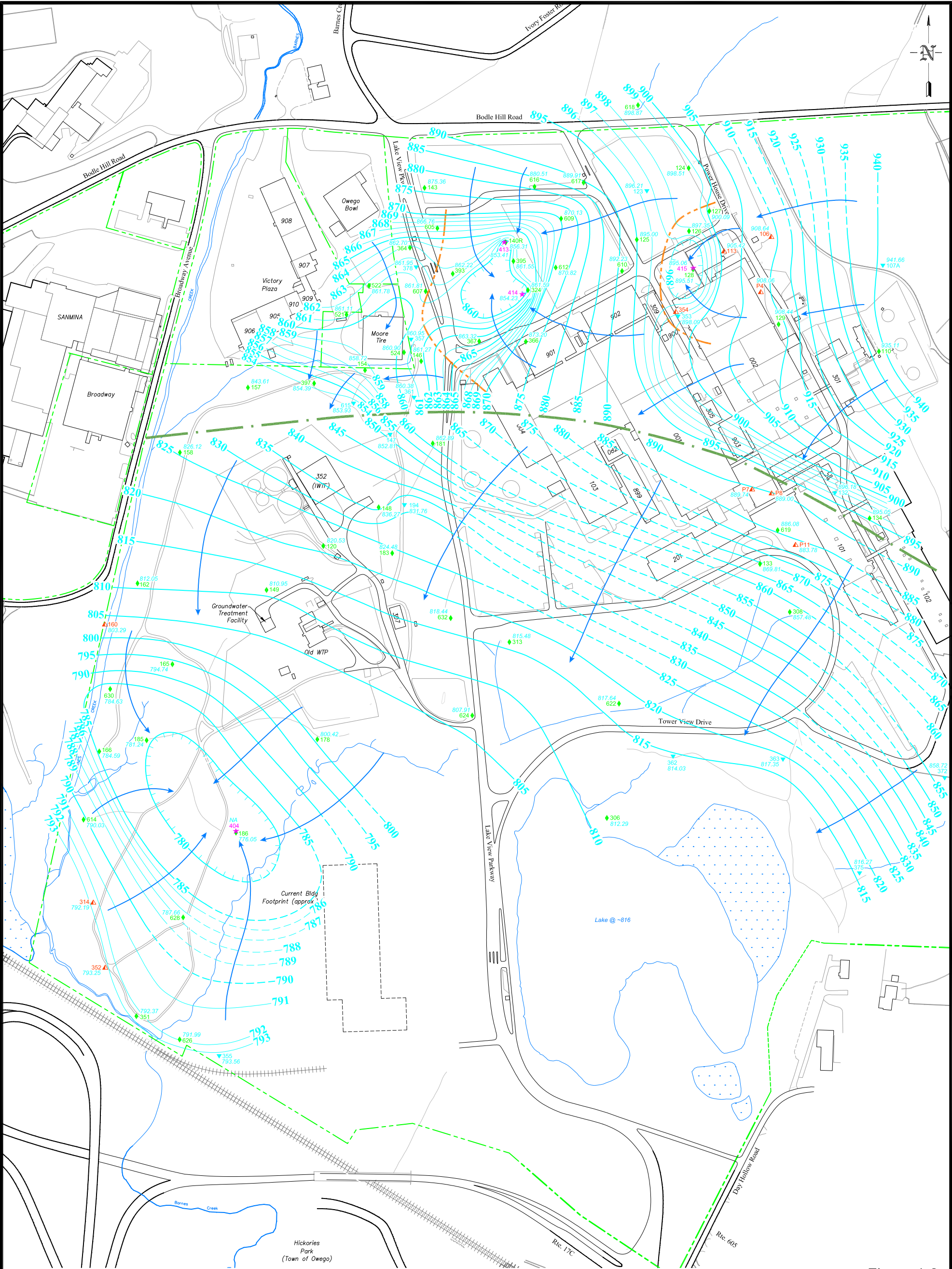
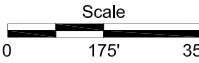


Figure 1-2

- ▼ - Bedrock monitoring well
- ▲ - Till monitoring well
- ◆ - Soil/Bedrock monitoring well
- ★ - Withdrawal well
- - Property Line
- - Swamp area
- - Direction of Groundwater Flow
- 799.05 - Groundwater Elevation (feet amsl)
- NA - Not Accessible
- 795 - Groundwater Elevation Contour (feet amsl)
- - - - - Inferred Groundwater Elevation Contour
- - - - - Groundwater Flow Divide
- - - - - Line of Separation Between Northern and Southern Sampling Events

Northern Area wells measured July 24, 2014; Southern Area wells measured October 6, 2014.

Note: Some wells that monitor the lower till were used to construct this map.





Owego, New York

Till/Bedrock
Groundwater Elevation Contour Map
Third and Fourth Quarters, 2014

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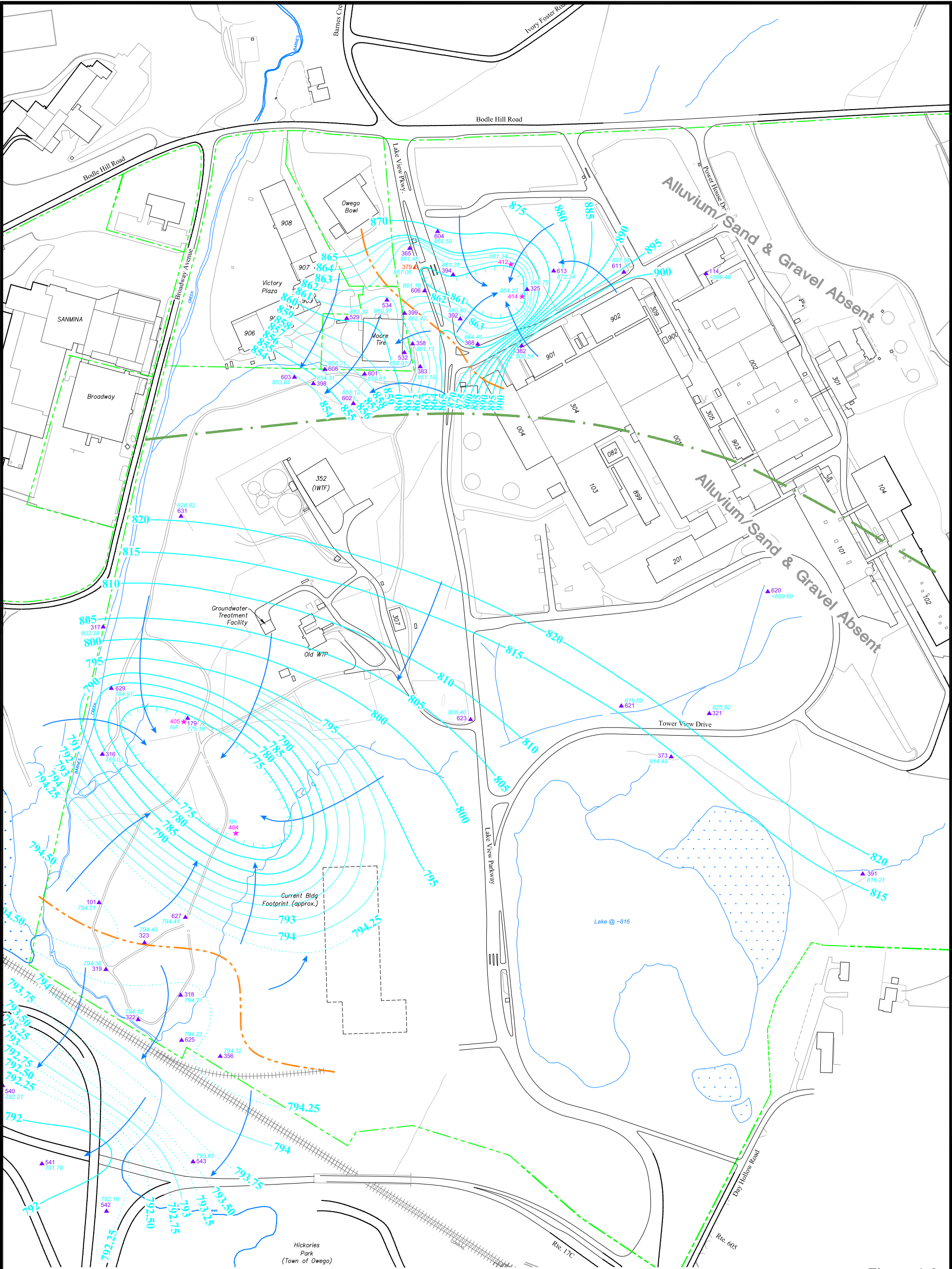


Figure 1-3

- ▲ Soil monitoring well

▲ Till monitoring well

★ Withdrawal well

— Property Line

— Line of Separation Between Northern and Southern Sampling Events

Swamp area

799.04 - Groundwater Elevation (feet amsl)

NA - Not Accessible

800 - Groundwater Elevation Contour (feet amsl)

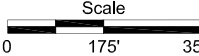
- - - Supplemental Groundwater Elevation Contour

→ Direction of Groundwater Flow

— Groundwater Flow Divide

Note: Groundwater elevations for wells P1, P2, 161, 163, 386, 387 and 374 were not used because these wells monitor a shallow alluvial unit that is different from the outwash unit monitored by other wells in the southern areas.

Northern Area wells measured July 24, 2014; Southern Area wells measured October 6, 2014.



Owego, New York

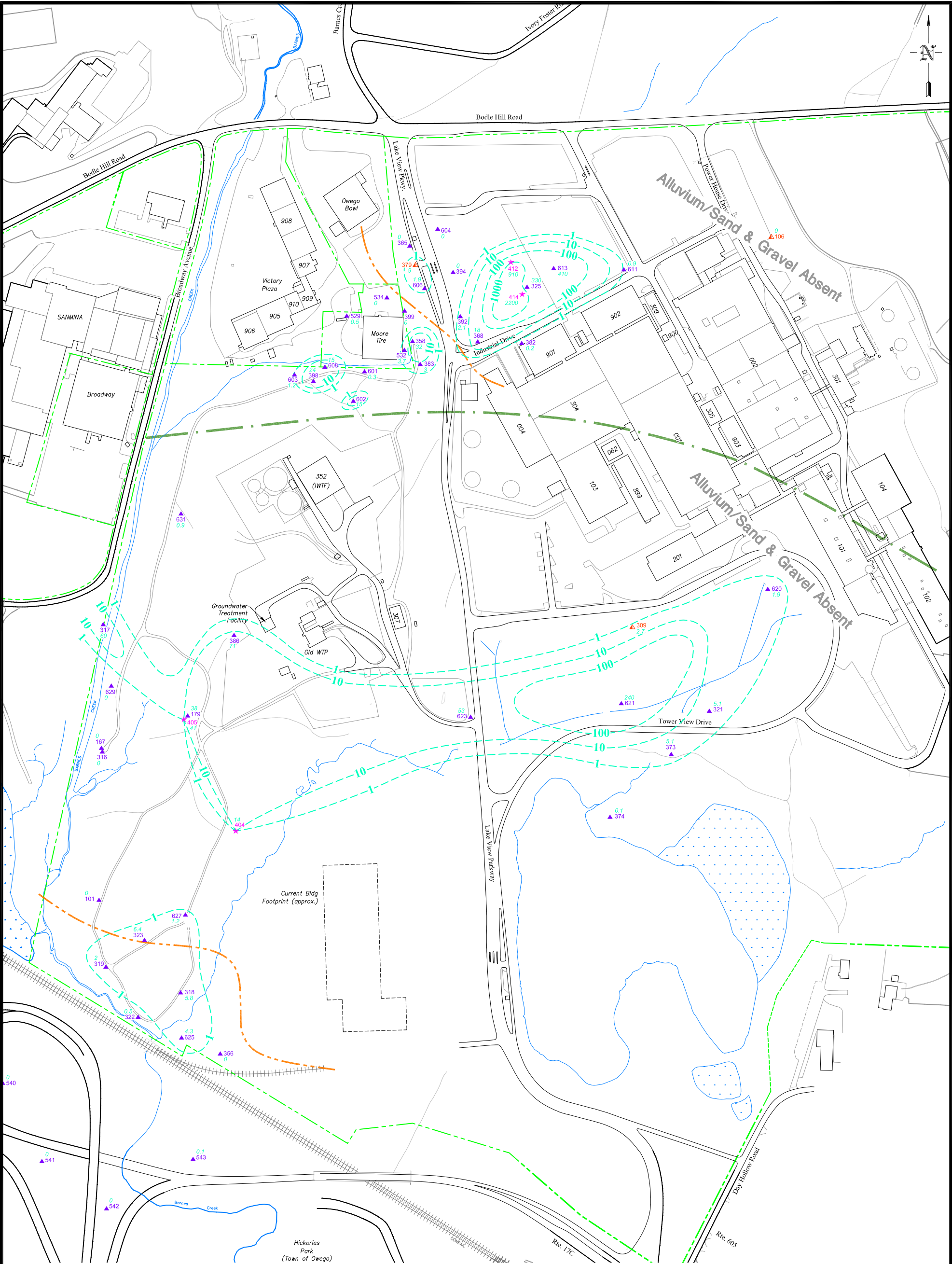
Alluvium/Sand & Gravel

Groundwater Elevation Contour Map

Third and Fourth Quarters, 2014

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- ▲

- Soil monitoring well

▲

- Till monitoring well

★

- Withdrawal well

5.8

- TCA-Series Concentration (ug/l)

- Swamp area
- 100

- TCA-Series Concentration Contour (ug/l)

- Groundwater Flow Divide

- Property Line

- Line of Separation Between Northern and Southern Sampling Events

Calculation:

$$\text{TCA Series} = \text{TCA} + 1,1\text{-DCA} \left(\frac{133.42}{98.97} \right) + 1,1\text{-DCE} \left(\frac{133.42}{96.95} \right) + \text{CEA} \left(\frac{133.42}{64.52} \right)$$

where

TCA = 1,1,1-Trichloroethane

1,1-DCA = 1,1-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

CEA = Chloroethane

Notes: Wells 106, 309 and 379, which monitor the upper till, were also used to construct this map. Values shown have been rounded to two significant figures or one significant figure if less than 1 ug/l.

Extraction wells 413 and 414 pump from the till/bedrock zone.

Extraction wells 412 and 414 pump from the alluvial zone.

Northern Area wells sampled July 2014.
Southern Area wells sampled October 2014.



Figure 3-1

Owego, New York

Alluvium/Sand & Gravel TCA-Series
Isoconcentration Contour Map
Third and Fourth Quarters, 2014

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DATE: 2/6/15

CHECKED & APPROVED BY: CAR

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93004-076-O2

GROUNDWATER SCIENCES CORPORATION

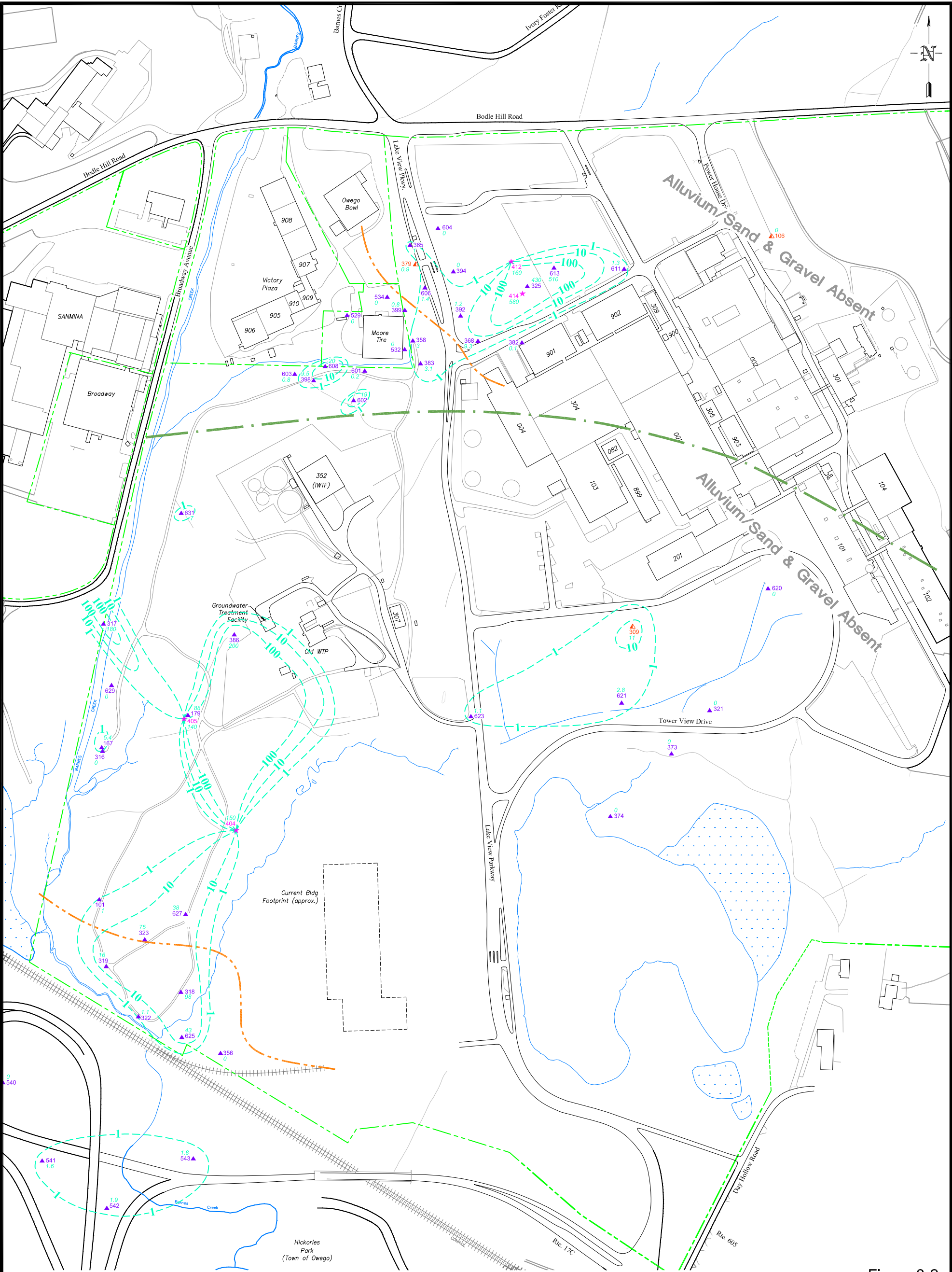


Figure 3-2

- ▲ - Soil monitoring well
- ▲ - Till monitoring well
- ★ - Withdrawal well
- 16 - TCE-Series Concentration (µg/l)
- 100 - TCE-Series Concentration Contour (µg/l)
- - - Groundwater Flow Divide
- - - Property Line
- . - Line of Separation between Northern and Southern Sampling Events
- Swamp area

Calculation:

$$\text{TCE Series} = \text{TCE} + \text{CIS} \left(\frac{131.4}{96.95} \right) + \text{VC} \left(\frac{131.4}{62.5} \right)$$

where

- TCE = Trichloroethene
- CIS = cis-1,2-Dichloroethene
- VC = Vinyl Chloride

Notes: Wells 106, 309 and 379, which monitor the upper till, were also used to construct this map. Values shown have been rounded to two significant figures or one significant figure if less than 1 µg/l.

Extraction wells 413 and 414 pump from the till/bedrock zone.

Extraction wells 412 and 414 pump from the alluvial zone.

Northern Area wells sampled July 2014.
Southern Area wells sampled October 2014.

Scale
0 175' 350'



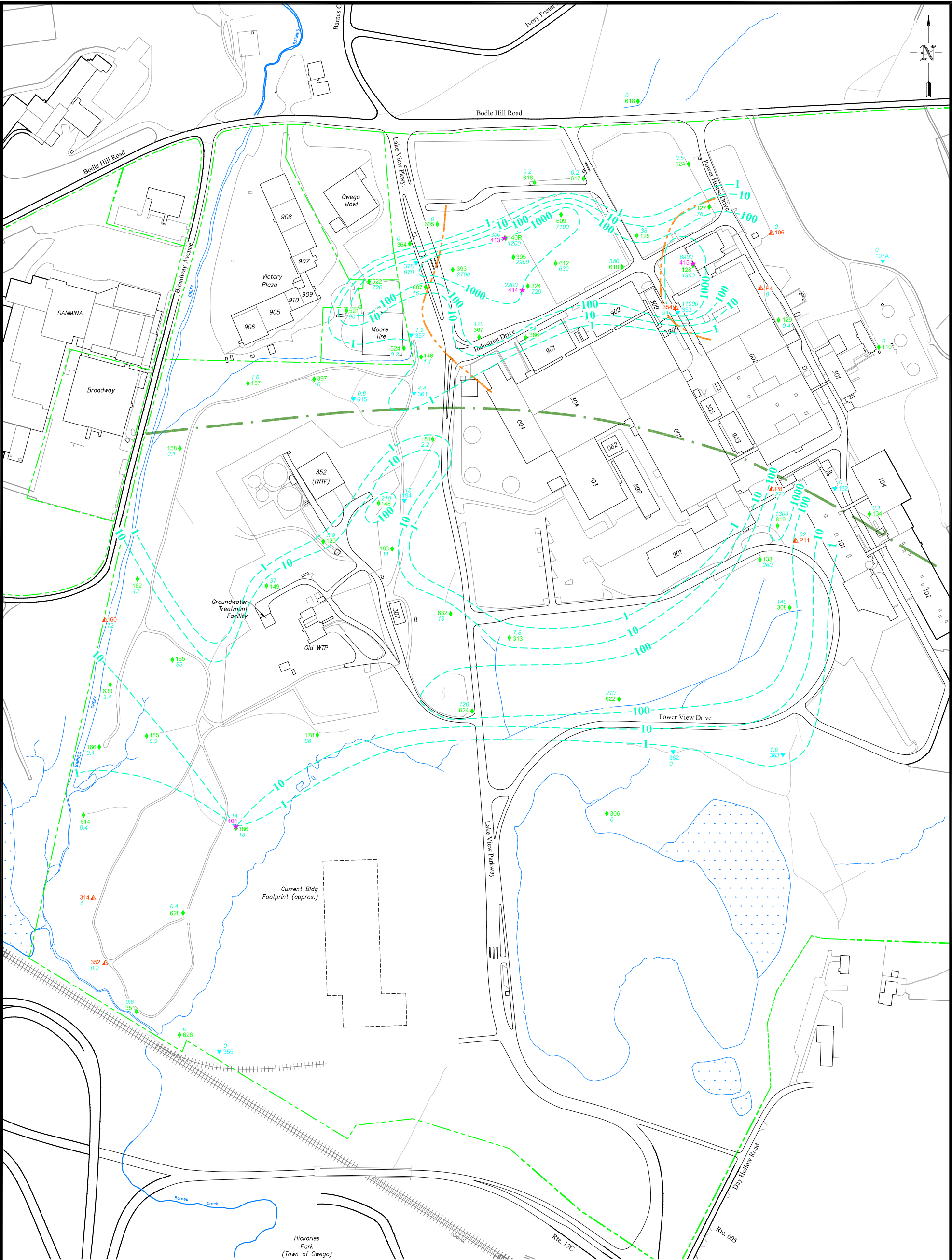
Owego, New York

Alluvium/Sand & Gravel TCE-Series
Isoconcentration Contour Map
Third and Fourth Quarters, 2014

DRAWN BY: MHM	DATE: 2/6/15	DRAWING NO.
CHECKED & APPROVED BY: CAR		93004-077-O2



GROUNDWATER SCIENCES CORPORATION



- ▼

- Bedrock monitoring well

◆

- Soil/Bedrock monitoring well

▲

- Till monitoring well

★

- Withdrawal well

18

- TCA-Series Concentration (µg/l)
- 100

- TCA-Series Concentration Contour (ug/l)

- Groundwater Flow Divide

- Property Line

- Line of Separation Between Northern and Southern Sampling Events

- Swamp area

Calculation:
$$\text{TCA Series} = \text{TCA} + 1,1\text{-DCA} \left(\frac{133.42}{98.97} \right) + 1,1\text{-DCE} \left(\frac{133.42}{96.95} \right) + \text{CEA} \left(\frac{133.42}{64.52} \right)$$

where $\left\{ \begin{array}{l} \text{TCA} = 1,1,1\text{-Trichloroethane} \\ 1,1\text{-DCA} = 1,1\text{-Dichloroethane} \\ 1,1\text{-DCE} = 1,1\text{-Dichloroethene} \\ \text{CEA} = \text{Chloroethane} \end{array} \right.$

Notes: Some wells that monitor the lower till or the bedrock were used to construct this map.
Values shown have been rounded to two significant figures or one significant figure if less than 1 µg/l.

Northern Area wells sampled July 2014.
Southern Area wells sampled October 2014.



Figure 3-3

IBM

Owego, New York

Till/Bedrock TCA-Series
Isoconcentration Contour Map
Third and Fourth Quarters, 2014

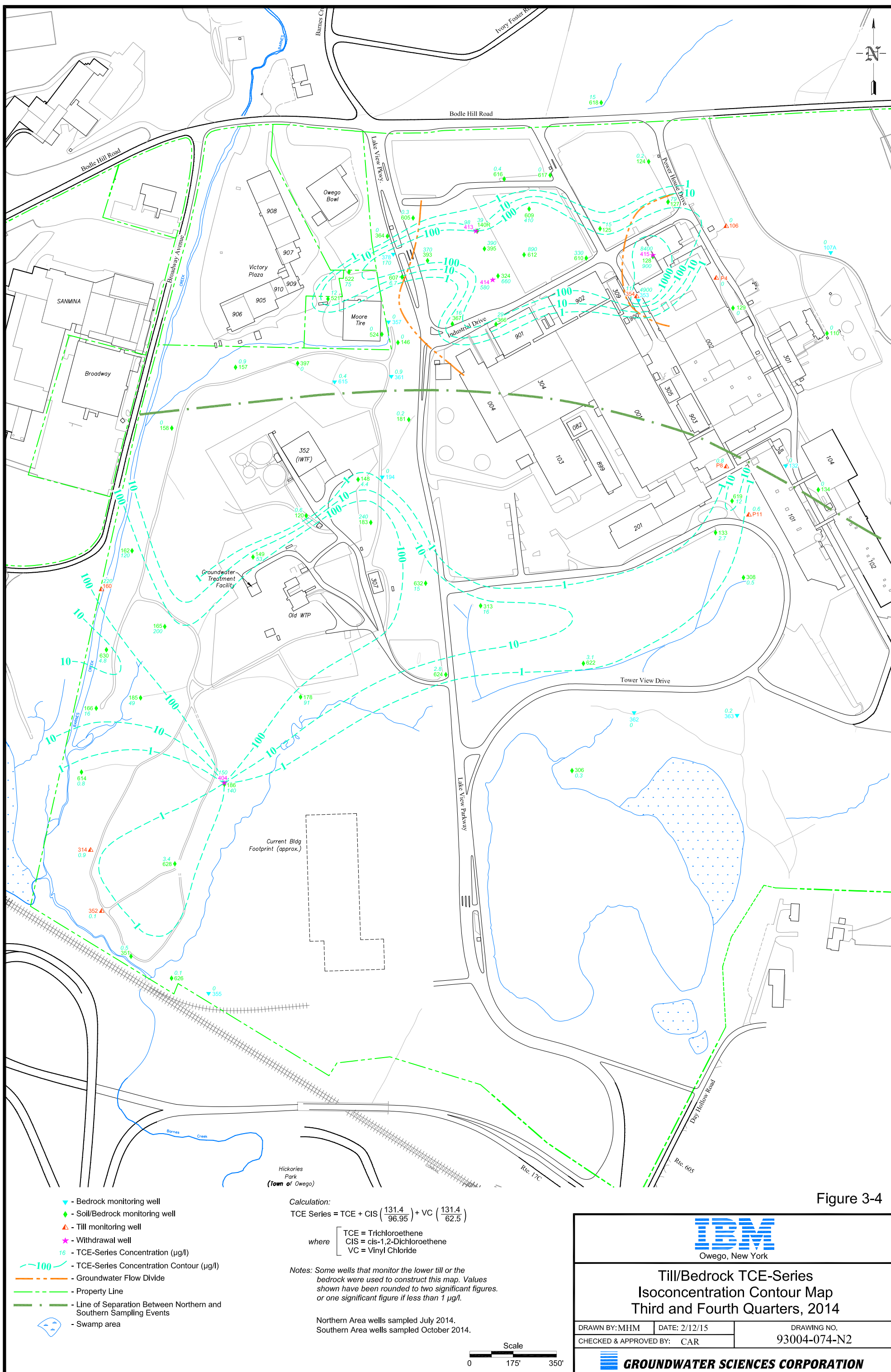
DRAWN BY: MHM

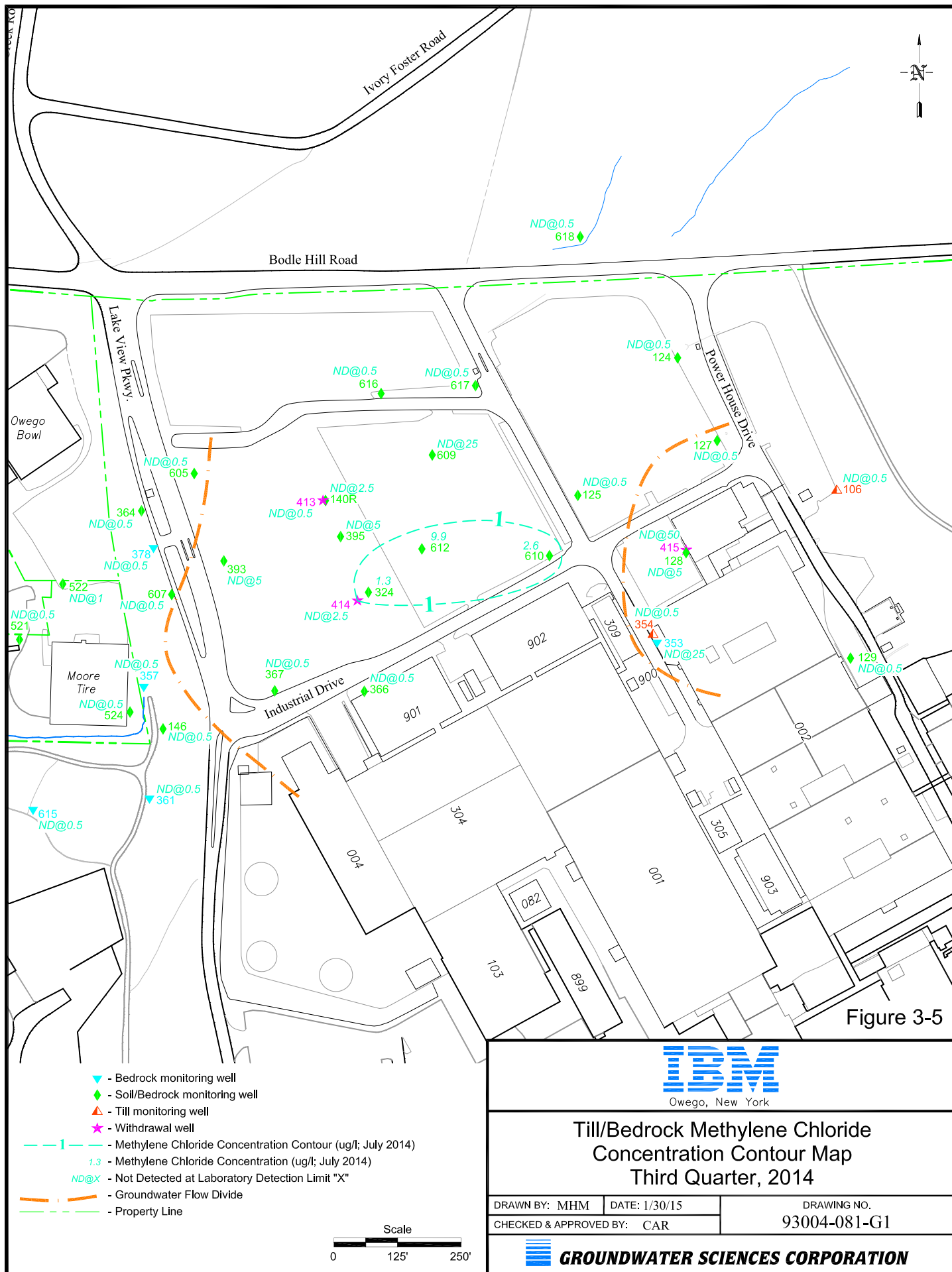
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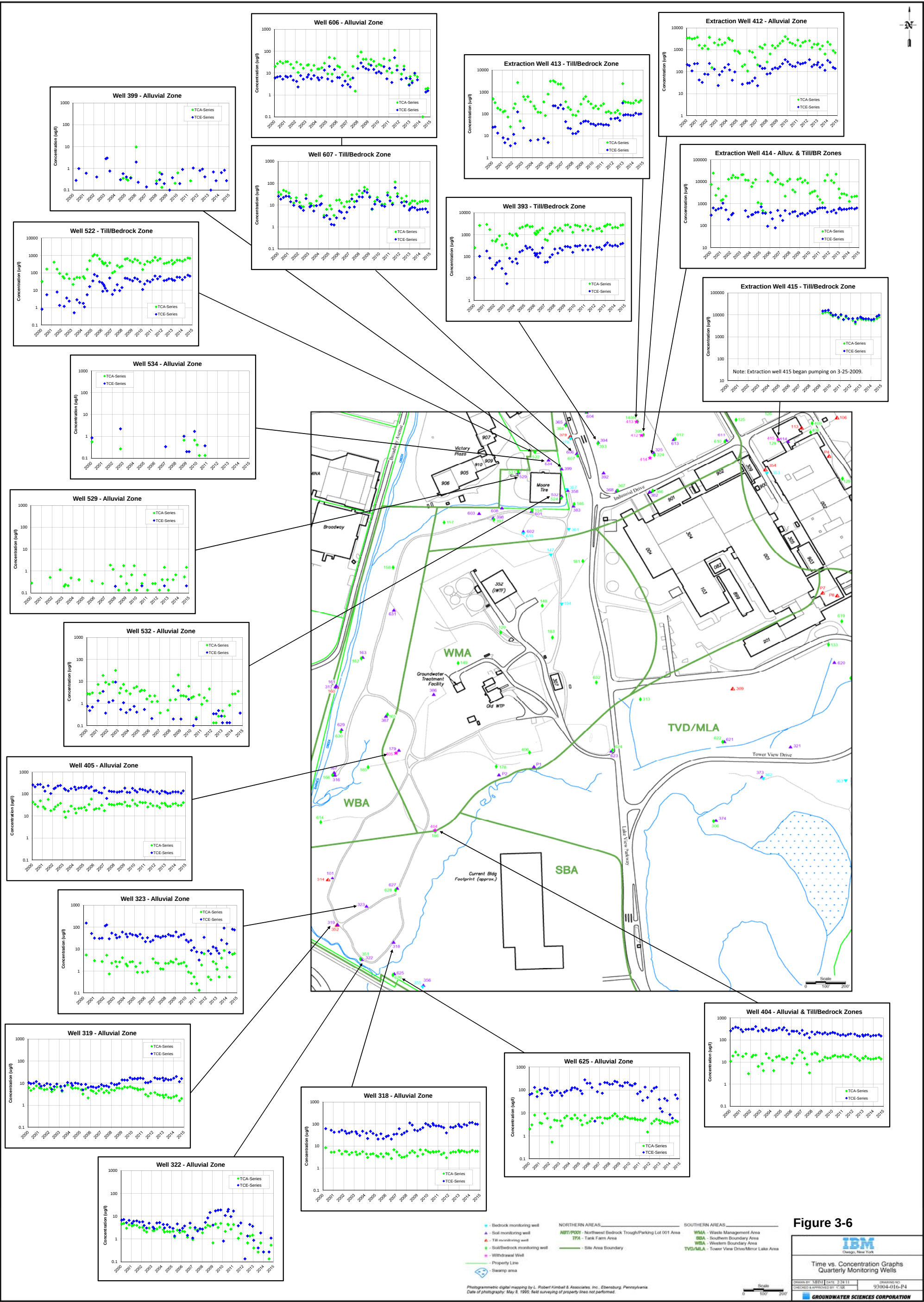
CHECKED & APPROVED BY: CAR

DRAWING NO.
93004-075-N2

GROUNDWATER SCIENCES CORPORATION







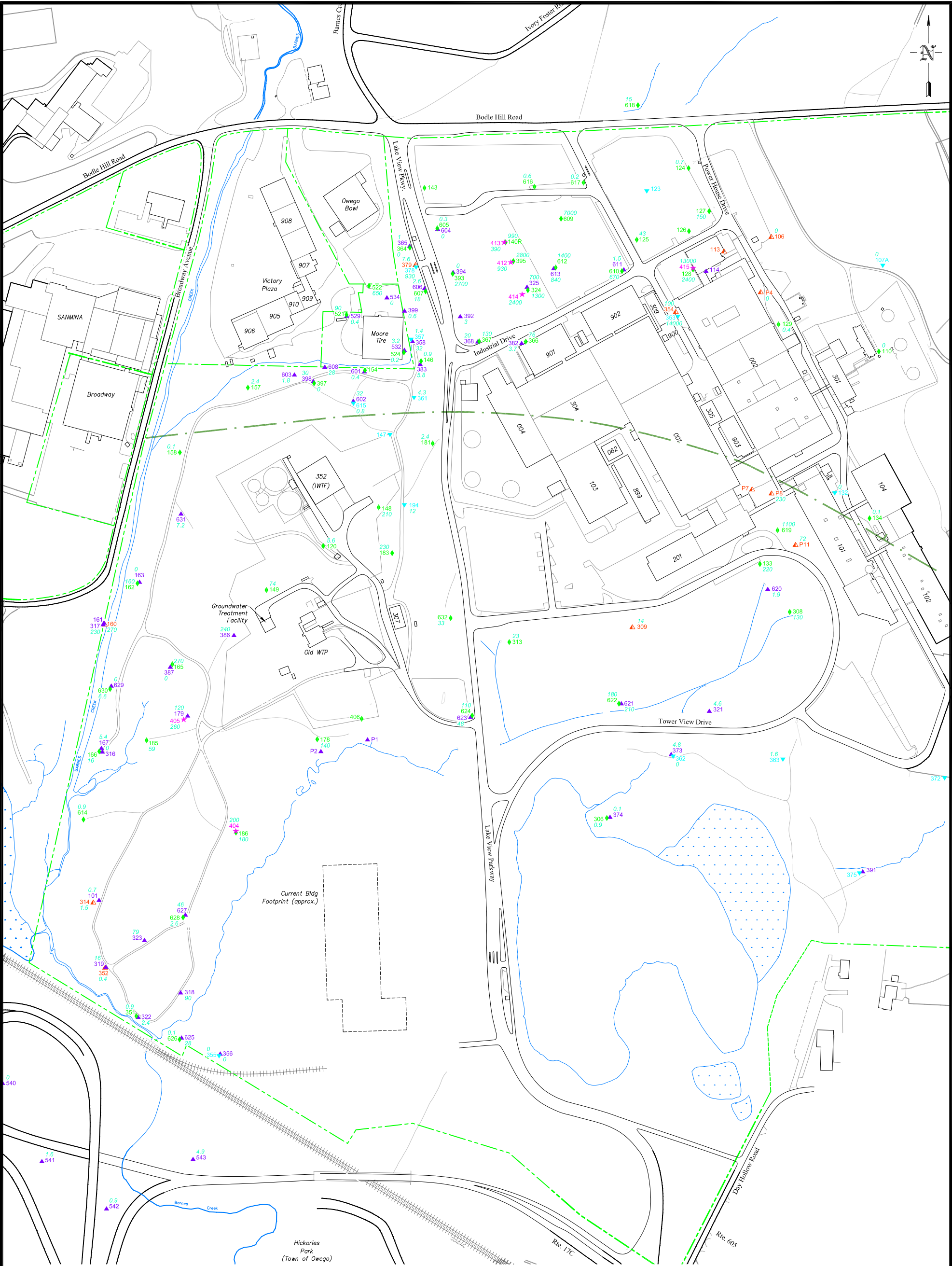
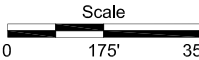


Figure 3-7

- ▼ - Bedrock monitoring well
- ▲ - Soil monitoring well
- ◆ - Soil/Bedrock monitoring well
- ▲ - Till monitoring well
- ★ - Withdrawal well
- 4.9 - Total VOCs Concentration (µg/l)
- - - Property Line
- - - Site Area Boundary
- Swamp area

Northern Area wells sampled July 2014; Southern Area wells sampled October 2014.
Note: Values shown have been rounded to two significant figures or one significant figure if less than 1 µg/l.





Owego, New York

Total Volatile Organic Compounds (VOCs)
Concentration in Groundwater (ug/l)
Third and Fourth Quarters, 2014

DRAWN BY: MHM	DATE: 1/29/15	DRAWING NO. 93004-078-M1
CHECKED & APPROVED BY: CAR		



GROUNDWATER SCIENCES CORPORATION

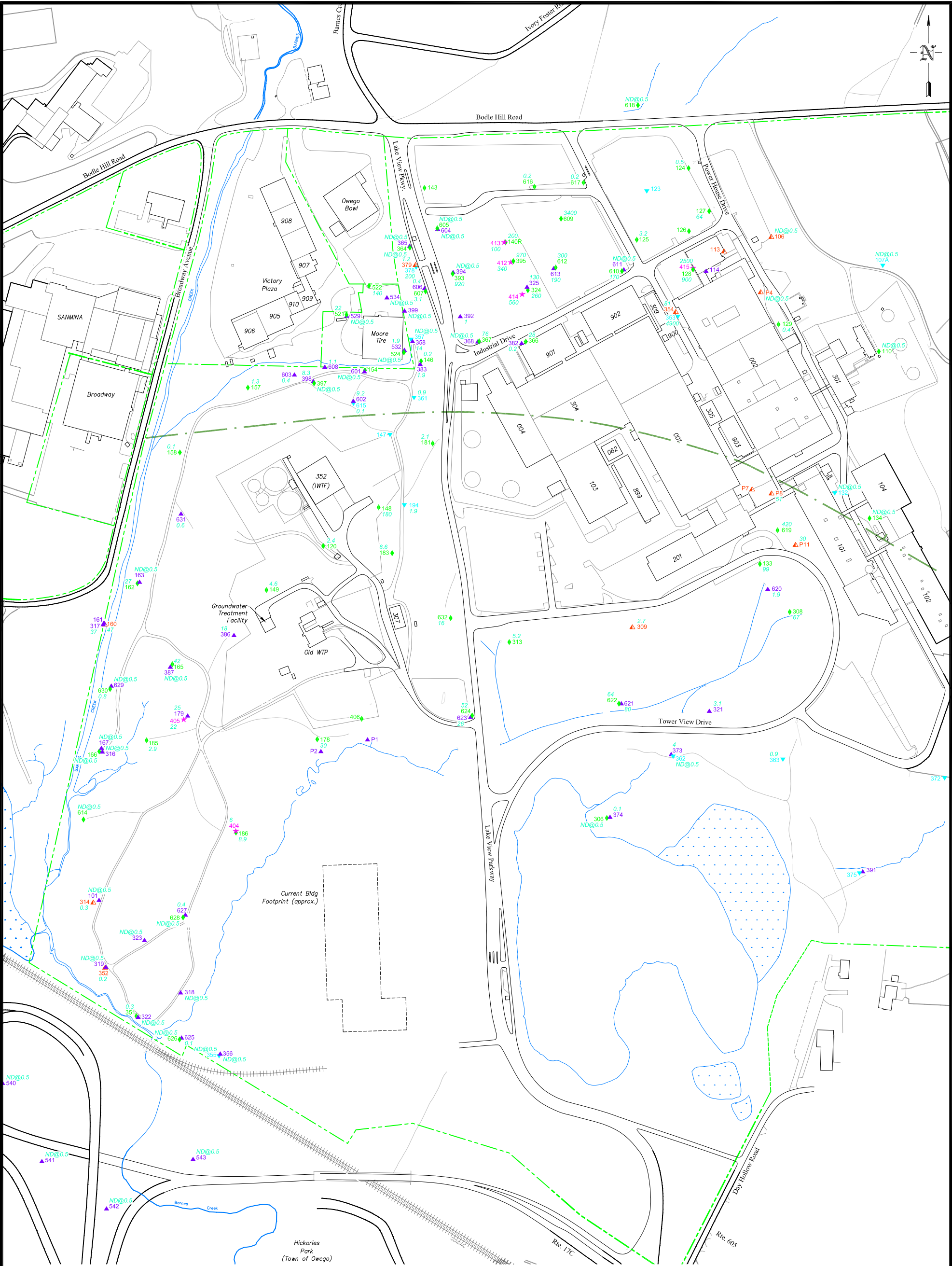


Figure 3-8

- 8.9 - 1,1,1-Trichloroethane Concentration (ug/l)

ND@0.5 - Not Detected at Laboratory Detection Limit "X"

▼ - Bedrock monitoring well

▲ - Soil monitoring well

◆ - Soil/Bedrock monitoring well

▲ - Till monitoring well

★ - Withdrawal well
- Property Line

- Site Area Boundary

- Swamp area

Northern Area wells sampled July 2014; Southern Area wells sampled October 2014.
Note: Values shown have been rounded to two significant figures or one significant figure if less than 10 ug/l.





Owego, New York

1,1,1-Trichloroethane Concentrations
Third and Fourth Quarters, 2014

DRAWN BY: MHM

DATE: 1/29/15

CHECKED & APPROVED BY: CAR

DRAWING NO.
93004-027-T1

 **GROUNDWATER SCIENCES CORPORATION**

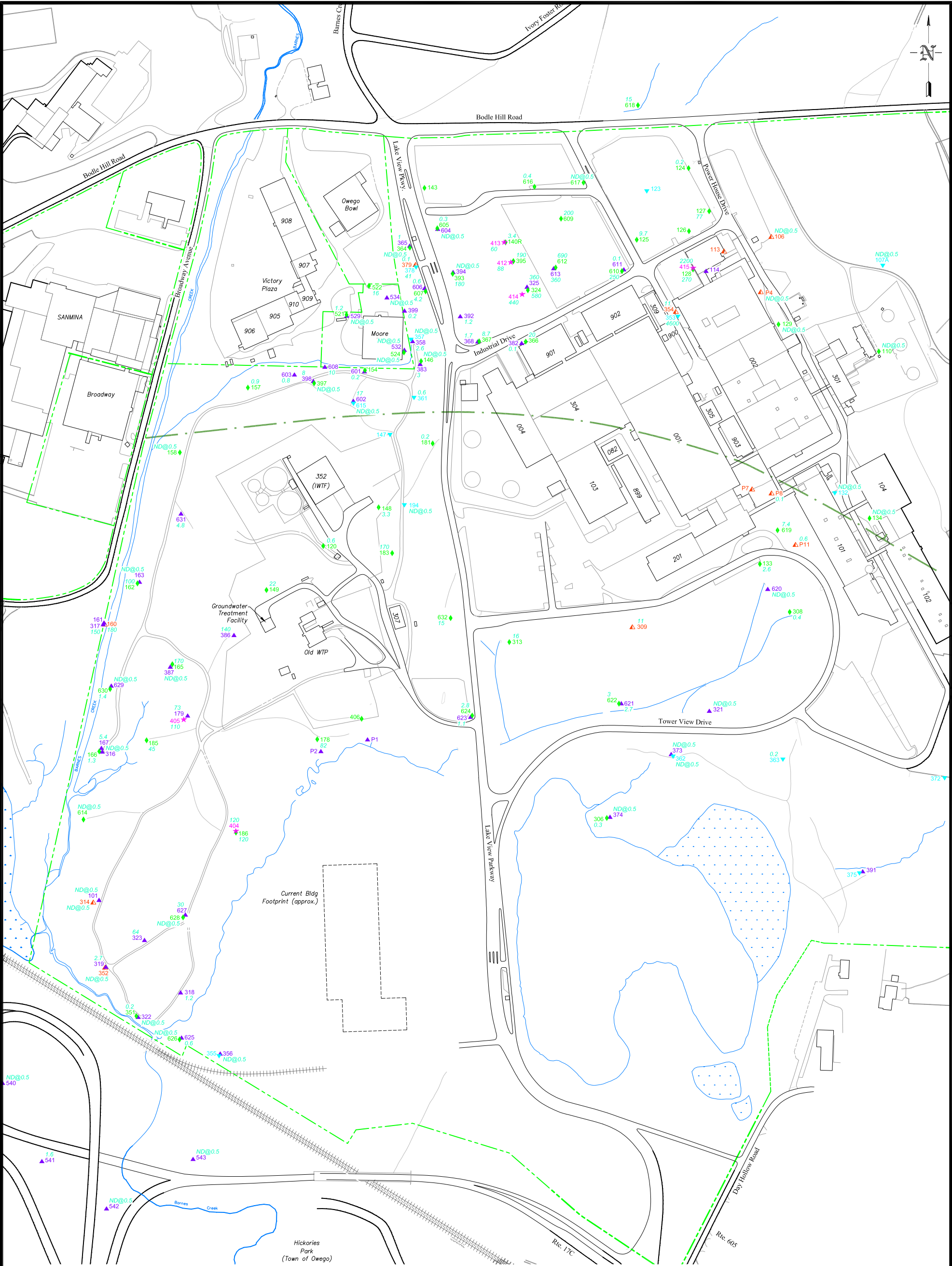


Figure 3-9

- 2.7 - Trichloroethene Concentration (ug/l)

ND@0.5 - Not Detected at Laboratory Detection Limit "X"

▼ - Bedrock monitoring well

▲ - Soil monitoring well

◆ - Soil/Bedrock monitoring well

▲ - Till monitoring well

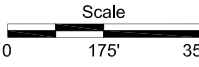
★ - Withdrawal well
- - Property Line

- - - - Site Area Boundary

- Swamp area

Northern Area wells sampled July 2014; Southern Area wells sampled October 2014.

Note: Values shown have been rounded to two significant figures or one significant figure if less than 10 ug/l.



Owego, New York

Trichloroethene Concentrations
Third and Fourth Quarters, 2014

DRAWN BY: MHM

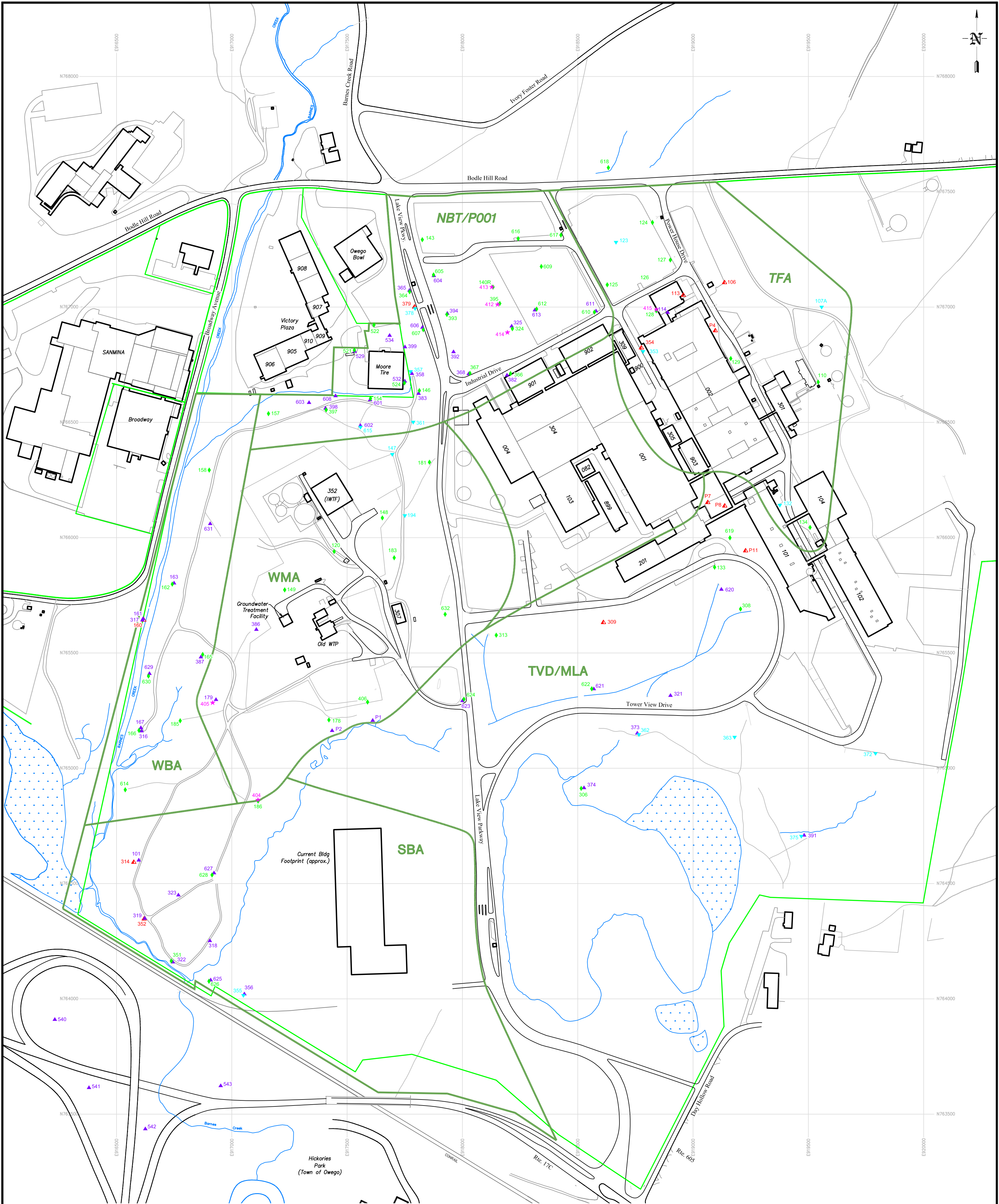
CHECKED & APPROVED BY: CAR

DATE: 1/29/15

DRAWING NO.

93004-028-T1

GROUNDWATER SCIENCES CORPORATION



- ▼ - Bedrock monitoring well

▲ - Soil monitoring well

▲ - Till monitoring well

◆ - Soil/Bedrock monitoring well

★ - Withdrawal Well

— - Property Line

— - Swamp area

NORTHERN AREAS

NBT/P001 - Northwest Bedrock Trough/Parking Lot 001 Area

TFA - Tank Farm Area

— - Site Area Boundary

SOUTHERN AREAS

WMA - Waste Management Area

SBA - Southern Boundary Area

WBA - Western Boundary Area

TVD/MLA - Tower View Drive/Mirror Lake Area
- Photogrammetric digital mapping by L. Robert Kimball & Associates, Inc., Ebensburg, Pennsylvania.
Date of photography: May 8, 1995; field surveying of property lines not performed.
- Scale

0 125' 250'
- Plate 1
- 

Owego, New York

Well Location Map
Corrective Action Monitoring Program

DRAWN BY: MHM | DATE: 8/12/13

CHECKED & APPROVED BY: CAR

DRAWING NO.
93004-016-Q1



APPENDIX A

TABLE A-1: EXTRACTION WELL PUMPING VOLUMES TABLE A-2: VOC MASS REMOVAL CALCULATIONS January 2014 – December 2014

Table A-1: 2014 Extraction Well Pumping Volumes (gallons)
Former IBM Facility, Owego, New York

Month	Waste Management Area		Parking Lot 001 Area		Tank Farm Area	Site Total
	404	405	412/414*	413	415	
Jan-14	4,338,376	6,393,824	212,339	258,226	45,768	11,248,533
Feb-14	3,956,410	5,733,453	174,973	264,645	31,611	10,161,092
Mar-14	4,192,318	6,281,014	200,971	303,555	39,416	11,017,274
Apr-14	5,581,991	6,449,693	204,855	357,264	41,168	12,634,971
May-14	5,575,102	6,713,441	191,668	335,454	45,439	12,861,105
Jun-14	5,187,110	6,557,043	168,706	288,521	36,021	12,237,401
Jul-14	5,049,136	6,431,876	192,061	276,156	26,869	11,976,098
Aug-14	5,110,696	6,558,853	206,386	300,843	3,962	12,180,739
Sep-14	4,634,644	5,723,596	201,287	266,269	9,375	10,835,171
Oct-14	4,550,059	5,169,869	175,433	227,746	10,823	10,133,930
Nov-14	3,765,935	5,395,175	165,213	257,665	2,456	9,586,443
Dec-14	3,471,458	6,181,067	139,583	275,502	30,065	10,097,677
					Total	134,970,435

* Wells 412 and 414 are not metered separately.

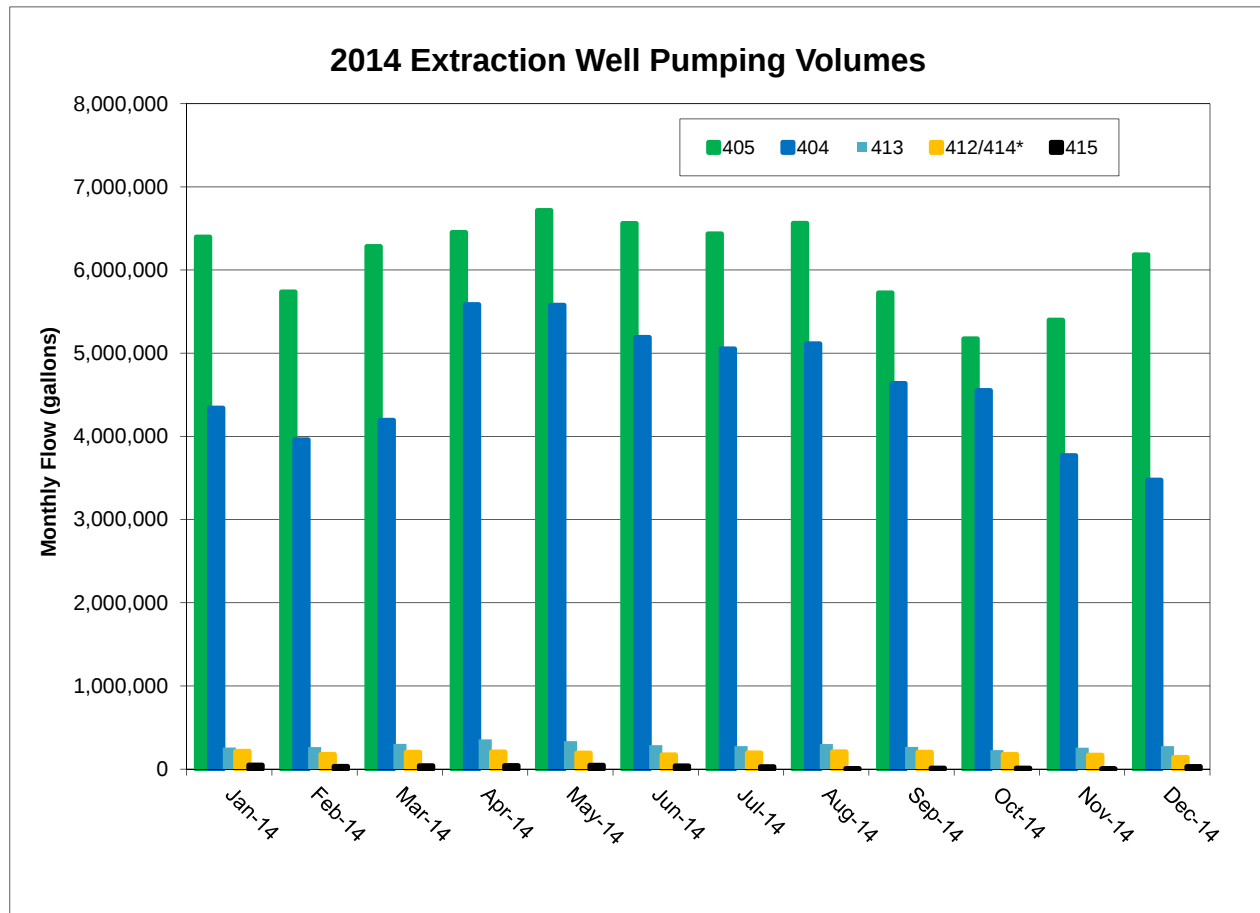


Table A-2: 2014 VOC Mass Removal Calculations
Former IBM Facility, Owego, New York

Concentrations of Chemicals in Air Stripper Influent (ug/L)

Month	Trichloroethene	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1,2-Dichloro-1,2,2-Trifluoroethane (Freon 123a)	Other VOCs	Volume Pumped through GTF* (gallons)
Jan	130.0	29.0	25.0	26.0	8.0	50.0	4.0	ND	11,353,800
Feb	130.0	33.0	27.0	23.0	7.0	57.0	5.0	ND	10,245,600
Mar	130.0	30.0	22.0	21.0	6.0	57.0	5.0	ND	11,096,300
Apr	140.0	46.0	37.0	41.0	11.0	52.0	5.0	ND	11,629,400
May	130.0	29.0	21.0	23.0	7.0	49.0	5.0	ND	12,987,800
Jun	120.0	29.0	22.0	24.0	7.0	52.0	5.0	ND	12,425,700
Jul	120.0	37.0	28.0	21.0	8.0	47.0	5.0	ND	12,154,500
Aug	110.0	26.0	23.0	21.0	7.0	54.0	5.0	ND	12,430,000
Sep	120.0	38.0	24.0	33.0	9.0	45.0	10.0	ND	11,228,100
Oct	130.0	35.0	33.0	25.0	8.0	61.0	5.0	ND	10,574,600
Nov	140.0	39.0	36.0	48.0	13.0	83.0	6.0	ND	10,035,100
Dec	130.0	30.0	32.0	42.0	10.0	69.0	5.0	ND	10,236,200
*The volume pumped through the GTF differs slightly from the volume pumped from the extraction wells due to metering differences. Total									136,397,100 gallons

Pounds of Chemicals Removed by Air Stripping

Month	Trichloroethene	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1,2-Dichloro-1,2,2-Trifluoroethane (Freon 123a)	Other VOCs	Total VOCs Removed (pounds)
Jan	12.3	2.7	2.4	2.5	0.8	4.7	0.4	--	25.8
Feb	11.1	2.8	2.3	2.0	0.6	4.9	0.4	--	24.1
Mar	12.0	2.8	2.0	1.9	0.6	5.3	0.5	--	25.1
Apr	13.6	4.5	3.6	4.0	1.1	5.0	0.5	--	32.2
May	14.1	3.1	2.3	2.5	0.8	5.3	0.5	--	28.6
Jun	12.5	3.0	2.3	2.5	0.7	5.4	0.5	--	26.9
Jul	12.2	3.8	2.8	2.1	0.8	4.8	0.5	--	27.0
Aug	11.4	2.7	2.4	2.2	0.7	5.6	0.5	--	25.5
Sep	11.3	3.6	2.3	3.1	0.8	4.2	0.9	--	26.2
Oct	11.5	3.1	2.9	2.2	0.7	5.4	0.4	--	26.2
Nov	11.7	3.3	3.0	4.0	1.1	7.0	0.5	--	30.6
Dec	11.1	2.6	2.7	3.6	0.9	5.9	0.4	--	27.2
Totals	144.8	37.9	31.0	32.6	9.5	63.5	6.2	0.0	325 pounds

APPENDIX B

**TABLE B-1: WELL SPECIFICATIONS, CORRECTIVE ACTION
MONITORING PROGRAM**

**TABLE B-2a: HYDRAULIC EFFECTIVENESS MONITORING
WELLS FOR GROUNDWATER ELEVATION
MEASUREMENTS**

**TABLE B-2b: CONTAMINANT REDUCTION MONITORING
WELLS FOR GROUNDWATER SAMPLING**

Table B-1: Well Specifications
Corrective Action Monitoring Program

Well	Northing (grid feet)	Easting (grid feet)	Current M.P. Elevation (ft amsl)	Current Ground Surface Elevation (ft amsl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft amsl)	Baseline Depth to Bottom from M.P. (ft)	Baseline Elevation of Bottom (ft amsl)	Well Diameter (in)	Screen Length (ft)	Well Construction Material	Geologic Unit Monitored	Site Area	Up, Down, or Side Gradient
101	764601.1	916596.6	814.01	811.2	NE	NE	40.95	773.06	6	10	S, 25 slot	Outwash Sand	SBA	DG
106	767106.1	919136.5	914.91	912.9	11.6	901.2	13.12	901.79	4	5.3	PVC	Till*	TFA	UG
107A	767000.3	919557.6	961.80	960.3	NL	NL	64.96	896.84	2	NL	PVC	Bedrock	TFA	UG
110	766674.6	919542.5	946.88	947.9	15.5	931.3	20.11	926.77	4	5.3	PVC	Till/Bedrock	TFA	UG
113	767051.4	918957.9	914.83	912.1	25	887.0	12.72	902.11	4	5.3	PVC	Till	TFA	DG
114	766976.5	918889.9	916.13	913.4	22	891.6	16.65	899.48	4	5.3	PVC	Fill	TFA	DG
120	765939.9	917443.6	846.20	844.7	24	820.7	39.58	806.62	6	18	OH	Till/Bedrock	WMA	DG
123	765871.9	919093.3	903.96	904.5	18	886.0	21.89	882.07	4	4	PVC	Bedrock	TFA	DG
124	767366.9	918823.9	911.43	908.5	20	888.4	25.14	886.29	4	4	PVC	Till/Bedrock	TFA	SG
125	767096.6	918627.9	905.36	905.7	24	881.3	24.86	880.50	4	4	PVC	S & G/Bedrock	TFA	DG
126	767128.9	918825.2	908.95	909.4	22	886.9	23.90	885.05	4	4	PVC	Till/Bedrock	TFA	DG
127	767204.2	918901.6	909.65	909.8	18	891.2	19.54	890.11	4	4	PVC	S & G/Bedrock	TFA	DG
128	766984.2	918840.7	914.23	912.5	22	890.5	24.86	889.37	2	5	PVC, 10-slot	Till/Bedrock	TFA	DG
129	766776.9	919163.6	912.10	912.0	7.5	906.4	8.35	903.75	4	4	PVC	Till/Bedrock	TFA	DG
132	766141.1	919376.3	915.31	912.0	14	898.1	21.20	894.11	4	4	PVC	Bedrock	TFA	DG
133	767281.5	918665.9	897.22	894.3	26	867.5	31.50	865.72	4	4	PVC	Till/Bedrock	TVD/MLA	DG
134	766044.5	919507.4	916.46	913.9	36	876.5	42.89	873.57	4	4	PVC	Till/Bedrock	TFA	DG
140R	767086.4	918134.6	889.14	887.0	41.5	845.5	45.14	844.00	2	5	PVC, 20-slot	Till/Bedrock	NBT/P001	DG
143	767292.3	917826.1	884.81	885.5	19.5	866.5	29.05	855.76	4	4	PVC	Till/Bedrock	NBT/P001	DG
146	766637.9	917813.3	868.04	865.6	22	843.6	25.86	842.18	4	4	PVC	Till/Bedrock	NBT/P001	DG
147	766361.6	917695.9	871.57	868.9	20	848.5	27.28	844.29	4	4	PVC	Bedrock	WMA	DG
148	766085.9	917652.8	857.87	854.6	32	823.1	34.91	822.96	4	5	PVC	Till/Bedrock	WMA	DG
149	765773.6	917229.3	834.27	831.6	29	802.5	33.57	800.70	4	4	PVC	Till/Bedrock	WMA	DG
154	766603.6	917601.3	861.70	860.2	21	839.2	25.56	836.14	2	10	PVC, 10-slot	Till/Bedrock	NBT/P001	DG
157	766538.0	917158.9	854.13	852.7	16	836.6	20.02	834.11	4	10	PVC	Till/Bedrock	NBT/P001	DG
158	766293.2	916902.0	838.28	836.2	37	799.1	39.76	798.52	4	10	PVC	Till/Bedrock	WBA	SG
160	765642.6	916618.6	824.31	821.6	60	761.4	58.46	765.85	4	10	PVC	Basal Till	WBA	SG
161	765648.6	916615.3	824.96	821.8	NE	NE	22.74	802.22	4	10	PVC	Alluvial silt and gravel	WBA	SG
162	765798.6	916741.9	825.50	823.7	47	776.5	50.43	775.07	4	10	PVC	Till/Bedrock	WBA	SG
163	765802.6	916749.6	825.40	823.8	NE	NE	25.49	799.91	4	10	PVC	Alluvial silt and gravel	WBA	SG
165	765493.3	916873.7	817.50	815.6	40	775.4	44.21	773.29	4	10	PVC	Till/Bedrock	WBA	SG
166	765164.2	916597.5	813.71	812.0	87	724.5	90.56	723.15	4	15	PVC	Till/Bedrock	WBA	SG
167	765175.2	916605.7	813.26	811.7	NE	NE	25.52	787.74	4	10	PVC	Silt	WBA	SG
178	765209.7	917421.0	812.22	809.2	32	776.8	36.38	775.84	4	10	PVC, 10 slot	Gravel/Bedrock	WMA	DG
179	765297.4	916931.4	818.32	815.6	NE	NE	71.51	746.81	4	4	PVC, 8 slot	Outwash Sand	WMA	DG
181	766327.2	917875.1	894.65	893.2	37	855.7	40.60	854.05	4	5	PVC	Till/Bedrock	WMA	DG
183	765912.9	917704.1	851.83	848.9	25	823.9	30.50	821.33	4	5	PVC	Till/Bedrock	WMA	DG
185	765206.1	916776.3	815.54	813.0	89	723.9	94.20	721.34	4	20	PVC	S & G/Bedrock	WBA	DG
186	764857.7	917114.0	820.32	817.8	92	725.9	96.27	724.05	4	30	PVC	S & G/Bedrock	SBA	DG
194	766096.0	917750.2	862.70	861.4	36	824.3	113.37	749.33	5	62	S/OH	Bedrock	WMA	DG
306	764912.6	918514.9	821.04	817.8	58	760.1	62.50	758.54	4	20	PVC	S & G/Bedrock	TVD/MLA	DG
308	765690.7	919205.9	876.26	873.1	25	847.9	29.99	846.27	4	10	PVC	Till/Bedrock	TVD/MLA	DG
309	765632.1	918611.4	874.69	872.4	27	845.1	32.17	842.52	4	5	PVC	Till	TVD/MLA	DG
313	765577.1	918146.7	849.79	847.3	35	812.0	39.50	810.29	4	NR	PVC	Till/Bedrock*	TVD/MLA	DG
314	764592.4	916575.0	813.82	811.1	98	713.0	100.43	713.39	4	5	PVC	Basal Till	SBA	DG
316	765161.3	916608.8	813.46	812.0	NE	NE	48.99	764.47	4	10	PVC	Glaciolac., vf sand, silt, clay	WBA	DG
317	765642.2	916612.3	823.00	820.6	NE	NE	47.16	775.84	4	10	PVC	Outwash S & G	WBA	DG
318	764251.6	916904.6	814.19	811.9	NE	NE	47.32	766.87	4	10	PVC	Outwash S & G	SBA	DG
319	764348.5	916622.4	806.89	804.3	NE	NE	45.23	761.66	4	10	PVC	Outwash Sand	SBA	DG
321	765315.2	918902.2	853.72	852.1	NE	NE	39.56	814.16	4	10	PVC	S & G/Till	TVD/MLA	DG
322	764159.2	916744.3	806.20	803.8	NE	NE	45.74	760.46	4	10	PVC	Outwash S & G	SBA	DG
323	764450.0	916768.0	813.67	811.6	NE	NE	47.35	766.32	4	10	PVC	Outwash Sand	SBA	DG
324	766906.2	918216.7	892.67	890.8	50.0	840.8	53.43	839.24	2	10	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
325	766916.7	918213.5	892.15	890.5	NE	NE	42.61	849.54	2	5	PVC, 10 slot	Alluvial Gravel	NBT/P001	DG
351	764164.5	916737.6	805.62	804.1	86	718.1	90.40	715.22	2	5	PVC	Till/Bedrock	SBA	DG
352	764346.6	916619.9	806.48	804.6	84.8	719.8	87.41	719.07	2	5	PVC	Basal Till	SBA	DG
353	766807.8	917783.5	912.87	913.3	23	890.3	28.57	884.30	2	5	PVC	Bedrock	TFA	DG
354	766823.0	918775.7	912.85	913.4	NE	NE	17.25	895.60	2	5	PVC	Till	TFA	DG
355	764015.2	917050.3	813.42	811.3	89.5	721.8	97.90	715.52	2	5	PVC	Bedrock	SBA	DG
356	764020.7	917054.5	813.31	811.5	NE	NE	70.32	742.99	2	5	PVC	Outwash S & G	SBA	DG
357	766720.9	917775.4	863.91	861.8	24.5	837.3	34.53	829.38	2	5	PVC	Bedrock	NBT/P001	DG
358	766711.3	917781.0	864.08	861.8	NE	NE	17.64	846.44	2	5	PVC	Alluvial S & G	NBT/P001	DG
361	766501.5	917786.6	868.42	865.8	28	837.8	35.39	833.03	2	5	PVC	Bedrock	NBT/P001	DG
362	765146.5	918765.3	832.69	829.8	58	771.8	66.64	766.05	2	5	PVC	Bedrock	TVD/MLA	DG

Table B-1: Well Specifications
Corrective Action Monitoring Program

Well	Northing (grid feet)	Easting (grid feet)	Current M.P. Elevation (ft amsl)	Current Ground Surface Elevation (ft amsl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft amsl)	Baseline Depth to Bottom from M.P. (ft)	Baseline Elevation of Bottom (ft amsl)	Well Diameter (in)	Screen Length (ft)	Well Construction Material	Geologic Unit Monitored	Site Area	Up, Down, or Side Gradient
363	765135.4	919180.1	855.07	852.5	38.5	814.0	45.53	809.54	2	5	PVC	Bedrock	TVD/MLA	DG
364	767066.3	917771.0	897.72	896.0	60.5	835.5	65.27	832.45	2	5	PVC	Till/Bedrock	NBT/P001	SG
365	767072.2	917770.3	898.02	896.2	NE	NE	45.86	852.16	2	5	PVC	Alluvial S & G	NBT/P001	SG
366	766711.7	918208.6	912.48	910.7	37.2	873.5	42.99	869.49	2	5	PVC	Till/Bedrock	NBT/P001	DG
367	766712.8	918032.6	910.15	908.9	67	841.9	72.55	837.60	2	5	PVC	Till/Bedrock	NBT/P001	DG
368	766710.2	918027.1	910.25	908.8	NE	NE	49.42	860.83	2	5	PVC	Alluvial f. Sand, Silt, G	NBT/P001	DG
372	765064.9	917971.2	904.96	903.5	58	845.5	65.82	839.14	2	5	PVC	Bedrock	TVD/MLA	SG
373	765151.7	918758.2	832.19	829.5	NE	NE	45.70	786.49	2	10	PVC	Outwash S & G	TVD/MLA	DG
374	764914.9	918527.1	821.25	818.6	NE	NE	20.54	800.71	2	10	PVC	Sand & Gravel	TVD/MLA	DG
375	764705.6	919469.4	833.00	831.4	38	793.4	45.58	787.42	2	5	PVC	Bedrock	TVD/MLA	SG
378	766993.8	917794.6	900.05	898.0	65.5	832.5	77.22	822.83	2	5	PVC	Bedrock	NBT/P001	DG
379	767000.4	917792.4	899.67	897.8	NE	NE	51.92	847.75	2	5	PVC	Till	NBT/P001	DG
382	766704.2	918193.3	912.59	910.4	NE	NE	22.58	890.01	2	5	PVC	Fill	NBT/P001	DG
383	766625.0	917810.0	867.39	864.6	NE	NE	16.99	850.40	2	5	PVC	Alluvial Silt & f. Sand	NBT/P001	DG
386	765601.5	917106.5	822.26	819.4	NE	NE	17.46	804.80	2	5	PVC	Alluvial S & G	WMA	DG
387	765481.8	916866.0	817.59	815.1	NE	NE	15.52	802.07	2	5	PVC	Alluvial S&G & Silt	WBA	DG
391	764709.2	919481.7	833.75	831.5	NE	NE	30.18	803.57	2	10	PVC	Outwash S & G	TVD/MLA	SG
392	766805.5	917961.4	896.07	894.0	NE	NE	45.07	851.00	2	10	PVC, 10 slot	Alluvial S&G & Silt	NBT/P001	DG
393	766967.9	917932.7	892.69	890.5	59	831.5	65.19	827.50	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
394	766972.3	917934.2	892.51	890.5	NE	NE	47.01	845.50	2	10	PVC, 10 slot	Alluvial S&G & Silt	NBT/P001	DG
395	767015.6	918162.0	890.07	888.1	59.5	828.6	65.10	824.97	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
397	766554.2	917409.1	865.79	863.6	34	829.6	39.69	826.10	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
398	766561.0	917406.4	865.37	863.3	NE	NE	18.07	847.30	2	10	PVC, 10 slot	Alluvial S&G & Silt	NBT/P001	DG
399	766826.6	917750.8	867.38	865.3	NE	NE	16.59	850.79	2	10	PVC, 10 slot	Alluvial S&G & Silt	NBT/P001	DG
404	764862.8	917113.2	NA	NA	92	725.8	NA	NA	10	5 10 5	S, 6 slot S, 6 slot S, 10 slot	Alluvial Zone Alluvial Zone / Till Till/Bedrock Zone	WMA	DG
405	765284.0	916916.7	NA	NA	86.5	728.5	NA	NA	10	10 5	S, 8 slot S, 10 slot	Alluvial Zone Till	WMA	DG
412	767010.9	918152.3	890.34	NA	26	845.1	NA	NA	6	10	S, 60 slot	Alluvial Zone	NBT/P001	DG
413	767086.5	918127.5	889.28	NA	28.5	843.6	NA	NA	6	10	S, 60 slot	Till/Bedrock Zone	NBT/P001	DG
414	766889.8	918195.1	893.23	NA	50	841.3	NA	NA	6	20	S, 20 slot	Alluvial & Till/Bedrock Zones	NBT/P001	DG
415	766989.0	918841.0	914.38	912.0	25	887.5	35.40	878.98	6	5	SS, 35 slot	Till/Bedrock Zone	TFA	DG
521	766813.4	917531.5	863.78	861.6	36	825.6	41.13	822.65	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
522	766922.5	917616.3	864.46	862.3	28	834.3	34.08	830.38	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
524	766671.0	917748.5	866.28	864.1	31	833.1	36.17	830.11	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
529	766807.5	917532.6	863.93	861.8	NE	NE	14.90	849.03	2	6.5	PVC, 10 slot	All. Silt, Sand, Gravel	NBT/P001	DG
532	766678.4	917750.1	866.34	864.0	NE	NE	16.58	849.76	2	8	PVC, 10 slot	All. Silt, Sand, Gravel	NBT/P001	DG
534	766876.5	917684.3	862.88	863.4	NE	NE	13.34	849.54	2	10	PVC, 10 slot	All. Silt, Sand, Gravel	NBT/P001	DG
540	763910.4	916233.3	810.55	808.2	>52	<756.2	51.06	759.49	2	10	PVC, 10 slot	Outwash Sand	SBA	DG
541	753614.5	916380.7	812.11	809.6	>56	<753.6	55.07	757.04	2	10	PVC, 10 slot	Outwash S & G	SBA	DG
542	763435.0	916624.5	806.40	804.0	>80	<724.0	44.65	761.75	2	10	PVC, 10 slot	Outwash S & G	SBA	DG
543	763621.1	916951.9	823.64	820.6	>56	<764.6	54.30	769.34	2	10	PVC, 10 slot	Outwash S & G	SBA	DG
601	766597.3	917599.5	862.08	860.0	NE	NE	15.56	846.52	2	10	PVC, 10 slot	Alluvial S&G/Silt	NBT/P001	DG
602	766485.9	917557.5	862.15	860.1	NE	NE	19.54	842.61	2	12	PVC, 10 slot	Alluvial Silt & Sand	NBT/P001	DG
603	766585.3	917334.9	864.18	861.9	NE	NE	17.95	846.23	2	10	PVC, 10 slot	Alluvial S&G	NBT/P001	DG
604	767135.5	917876.0	885.48	~883.0	NE	NE	21.88	863.60	2	10	PVC, 10 slot	Alluvial Silt & Sand	NBT/P001	DG
605	767139.6	917874.6	885.23	~883.0	45.5	842.0	45.73	839.50	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
606	766911.5	917826.6	900.10	900.7	NE	NE	47.40	852.70	2	5	PVC, 10 slot	Alluvial S&G and Silt	NBT/P001	DG
607	766901.8	917830.3	900.64	900.9	58	842.9	60.24	840.40	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
608	766614.6	917449.8	861.51	859.1	NE	NE	16.77	844.74	2	10	PVC, 10 slot	All. Silt, Sand, Gravel	NBT/P001	DG
609	767176.0	918342.1	895.16	895.5	49.5	846.0	51.66	843.50	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
610	766978.1	918572.3	909.10	909.7	30.5	879.2	32.40	876.70	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
611	766982.3	918579.3	909.11	909.7	NE	NE	13.41	895.70	2	10	PVC, 10 slot	Fill/All. Sand & Silt	NBT/P001	DG
612	766991.4	918321.7	903.93	904.5	56.1	848.4	56.64	847.29	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
613	766986.7	918314.2	903.94	904.5	NE	NE	41.63	862.31	2	10	PVC, 10 slot	All. Sand, Silt, Gravel	NBT/P001	DG
614	764906.7	916538.0	811.80	809.2	101	708.2	105.42	706.38	2	5	PVC, 10 slot	Till/Bedrock	WBA	DG
615	766479.4	917558.0	862.69	860.5	33	827.5	46.07	816.62	2	5	PVC, 10 slot	Bedrock	NBT/P001	DG
616	767296.7	918241.6	888.18	885.2	26.5	858.7	31.56	856.62	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
617	767312.2	918427.0	895.77	896.1	35	861.1	37.34	858.43	2	5	PVC, 10 slot	Till/Bedrock	NBT/P001	DG
618	767604.5	918632.7	909.29	906.2	24	879.4	28.86	880.43	2	5	PVC, 10 slot	Till/Bedrock	TFA	UG
619	765999.4	919160.0	896.45	896.8	13.5	883.3	15.07	881.38	2	5	PVC, 10 slot	Till/Bedrock	TVD/MLA	DG
620	765775.4	919122.9	887.16	884.2	NE	NE	17.56	869.60	2	10	PVC, 10 slot	All. Sand, Silt, Gravel	TVD/MLA	DG
621	765343.7	918569.7	841.97	840.0	NE	NE	37.41	804.56	2	10	PVC, 10 slot	Outwash Silt&Gravel	TVD/MLA	DG

Table B-1: Well Specifications
Corrective Action Monitoring Program

Well	Northing (grid feet)	Easting (grid feet)	Current M.P. Elevation (ft amsl)	Current Ground Surface Elevation (ft amsl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft amsl)	Baseline Depth to Bottom from M.P. (ft)	Baseline Elevation of Bottom (ft amsl)	Well Diameter (in)	Screen Length (ft)	Well Construction Material	Geologic Unit Monitored	Site Area	Up, Down, or Side Gradient
622	765344.6	918560.8	842.11	840.0	42	798.0	46.53	795.58	2	5	PVC, 10 slot	Till/Bedrock	TVD/MLA	DG
623	765292.6	918000.3	852.67	850.7	NE	NE	54.59	798.08	2	10	PVC, 10 slot	Outwash Sand&Gravel	TVD/MLA	DG
624	765299.7	918006.4	853.46	851.5	60.5	791.0	64.39	789.07	2	5	PVC, 10 slot	Till/Bedrock	TVD/MLA	DG
625	764081.1	916908.4	808.77	806.8	NE	NE	44.58	764.19	2	10	PVC, 10 slot	Outwash Sand	SBA	DG
626	764076.2	916901.0	808.60	804.5	86.5	718.0	92.41	716.19	2	5	PVC, 10 slot	Till/Bedrock	SBA	DG
627	764545.6	916922.9	812.96	811.2	NE	NE	50.91	762.05	2	10	PVC, 10 slot	Outwash Sand	SBA	DG
628	764537.3	916914.3	812.43	810.9	95.5	715.4	100.50	711.93	2	5	PVC, 10 slot	Till/Bedrock	SBA	DG
629	765410.2	916642.9	818.39	816.2	NE	NE	51.45	766.94	2	10	PVC, 10 slot	Silt, f. Sand, Gravel	WBA	SG
630	765399.8	916638.6	817.63	815.5	88	727.5	93.55	724.08	2	5	PVC, 10 slot	Till/Bedrock	WBA	SG
631	766060.3	916906.3	829.38	828.0	NE	NE	31.53	797.85	2	5	PVC, 10 slot	Outwash Sand&Gravel	WBA	UG
632	765667.6	917925.0	853.24	850.8	34	816.8	39.34	813.90	2	5	PVC, 10 slot	Till/Bedrock	WMA	DG
P01	765207.2	917610.9	810.62	808.7	NE	NE	11.23	799.39	2	5	PVC	S & G	WMA	DG
P02	765162.9	917434.9	809.61	807.8	NE	NE	10.49	799.12	2	5	PVC	S & G	WMA	DG
P04	766897.6	919096.5	914.73	913.6	19.5	894.1	20.31	894.42	2	5	PVC	Till	TFA	DG
P07	766152.6	919063.9	894.47	895.4	6.5	888.8	5.55	888.92	2	NL	S	Till*	TVD/MLA	DG
P08	766137.6	919137.3	894.70	895.3	9.5	886.3	8.73	885.97	2	NL	S	Till*	TVD/MLA	DG
P11	765943.1	919227.8	895.21	895.5	15.5	879.5	14.84	880.37	2	NL	S	Till*	TVD/MLA	DG

Key:

DG: Downgradient from source area	S: Steel
ft amsl: Feet above mean sea level	SBA: Southern Boundary Area
ft bgs: Feet below ground surface	SG: Side gradient to source area
Glaciolac.: Glaciolacustrine	TFA: Tank Farm Area
NBT/P001: Northwest Bedrock Trough/ Parking Lot 001 Area	TVD/MLA: Tower View Drive/Mirror Lake Area
M.P.: Measurement point	UG: Upgradient from source area
NA: Not available	WBA: Western Boundary Area
NE: Not encountered	WMA: Waste Management Area
NL: No log available	* Uncertain
NR: Not recorded	+ Casing has been significantly extended since well installation and emplacement of fill
OH: Open hole completion	

**Table B-2a: Hydraulic Effectiveness Monitoring Wells
for Groundwater Elevation Measurements**

Well	M.P. Elev. (ft amsl)	Planar Coordinates		Site Area	List "A"	List "B"
		Northing	Easting			
101	814.01	764601.1	916596.6	SBA	X	
106	914.91	767106.1	919136.5	TFA		X
107A	961.80	767000.3	919557.6	TFA		X
110	946.88	766674.6	919542.5	TFA		X
113	914.83	767051.4	918957.9	TFA		X
114	916.13	766976.5	918889.9	TFA		X
120	846.20	765939.9	917443.6	WMA	X	
123	903.96	765871.9	919093.3	TFA		X
124	911.43	767366.9	918823.9	TFA		X
125	905.36	767096.6	918627.9	TFA		X
126	908.95	767128.9	918825.2	TFA		X
127	909.65	767204.2	918901.6	TFA		X
128	914.23	766984.2	918840.7	TFA		X
129	912.10	766776.9	919163.6	TFA		X
132	915.31	766141.1	919376.3	TFA		X
133	897.22	767281.5	918665.9	TVD/ML	X	
134	916.46	766044.5	919507.4	TFA		X
140R	889.14	767086.4	918134.6	NBT/P001		X
143	884.81	767292.3	917826.1	NBT/P001		X
146	868.04	766637.9	917813.3	NBT/P001		X
147	871.57	766361.6	917695.9	WMA	X	
148	857.87	766085.9	917652.8	WMA	X	
149	834.27	765773.6	917229.3	WMA	X	
154	861.70	766603.6	917601.3	NBT/P001		X
157	854.13	766538.0	917158.9	NBT/P001		X
158	838.28	766293.2	916902.0	WBA	X	
160	824.31	765642.6	916618.6	WBA	X	
161	824.96	765648.6	916615.3	WBA	X	
162	825.50	765798.6	916741.9	WBA	X	
163	825.40	765802.6	916749.6	WBA	X	
165	817.50	765493.3	916873.7	WBA	X	
166	813.71	765164.2	916597.5	WBA	X	
167	813.26	765175.2	916605.7	WBA	X	
178	812.22	765209.7	917421.0	WMA	X	
179	818.32	765297.4	916931.4	WMA	X	
181	894.65	766327.2	917857.1	WMA	X	
183	851.83	765912.9	917704.1	WMA	X	
185	815.54	765206.1	916776.3	WBA	X	
186	820.32	764857.7	917114.0	SBA	X	
194	862.70	766096.0	917750.2	WMA	X	
306	821.04	764912.6	918514.9	TVD/ML	X	
308	876.26	765690.7	919205.9	TVD/ML	X	
309	874.69	765632.1	918611.4	TVD/ML	X	
313	849.79	765577.1	918146.7	TVD/ML	X	
314	813.82	764592.4	916575.0	SBA	X	
316	813.46	765161.3	916608.8	WBA	X	
317	823.00	765642.2	916612.3	WBA	X	
318	814.19	764251.6	916904.6	SBA	X	
319	806.89	764348.5	916622.4	SBA	X	
321	853.72	765315.2	918902.2	TVD/ML	X	
322	806.20	764159.2	916744.3	SBA	X	
323	813.67	764450.0	916768.0	SBA	X	
324	892.67	766906.2	918216.7	NBT/P001		X
325	892.15	766916.7	918213.5	NBT/P001		X
351	805.62	764164.5	916737.6	SBA	X	
352	806.48	764346.6	916619.9	SBA	X	
353	912.87	766807.8	918783.5	TFA		X
354	912.85	766823.0	918775.7	TFA		X
355	813.42	764015.2	917050.3	SBA	X	
356	813.31	764020.7	917054.5	SBA	X	
357	863.91	766720.9	917775.4	NBT/P001		X
358	864.08	766711.3	917781.0	NBT/P001		X
361	868.42	766501.5	917786.6	NBT/P001		X
362	832.69	765146.5	918765.3	TVD/ML	X	
363	855.07	765135.4	919180.1	TVD/ML	X	
364	897.72	767066.3	917771.0	NBT/P001		X
365	898.02	767072.2	917770.3	NBT/P001		X
366	912.48	766711.7	918208.6	NBT/P001		X
367	910.15	766712.8	918032.6	NBT/P001		X
368	910.25	766710.2	918027.1	NBT/P001		X
372	904.96	765064.9	919791.2	TVD/ML	X	
373	832.19	765151.7	918758.2	TVD/ML	X	
374	821.25	764914.9	918527.1	TVD/ML	X	
375	833.00	764705.6	919469.4	TVD/ML	X	

**Table B-2a: Hydraulic Effectiveness Monitoring Wells
for Groundwater Elevation Measurements**

Well	M.P. Elev. (ft amsl)	Planar Coordinates		Site Area	List "A"	List "B"
		Northing	Easting			
378	900.05	766993.8	917794.6	NBT/P001		X
379	899.67	767000.4	917792.4	NBT/P001		X
382	912.59	766704.2	918193.3	NBT/P001		X
383	867.39	766625.0	917810.0	NBT/P001		X
386	822.26	765601.5	917106.5	WMA	X	
387	817.59	765481.8	916866.0	WBA	X	
391	833.75	764709.2	919481.7	TVD/ML	X	
392	896.07	766805.5	917961.4	NBT/P001		X
393	892.69	766967.9	917932.7	NBT/P001		X
394	892.51	766972.3	917934.2	NBT/P001		X
395	890.07	767015.6	918162.0	NBT/P001		X
397	865.79	766554.2	917409.1	NBT/P001		X
398	865.37	766561.0	917406.4	NBT/P001		X
399	867.38	766826.6	917750.8	NBT/P001		X
412	890.34	767010.9	918152.3	NBT/P001		X
413	889.28	767086.5	918127.5	NBT/P001		X
414	893.23	766889.8	918195.1	NBT/P001		X
415	914.38	766989.0	918841.0	TFA		X
521	863.78	766813.4	917531.5	MT		X
522	864.46	766922.5	917616.3	MT		X
524	866.28	766671.0	917748.5	MT		X
529	863.93	766807.5	917532.6	MT		X
532	866.34	766678.4	917750.1	MT		X
534	862.88	766876.5	917684.3	MT		X
540	810.55	763910.4	916233.3	SBA	X	
541	812.11	753614.5	916380.7	SBA	X	
542	806.40	763435.0	916624.5	SBA	X	
543	823.64	763621.1	916951.9	SBA	X	
601	862.08	766597.3	917599.5	NBT/P001		X
602	862.15	766485.9	917557.5	NBT/P001		X
603	864.18	766585.3	917334.9	NBT/P001		X
604	885.48	767135.5	917876.0	NBT/P001		X
605	885.23	767139.6	917874.6	NBT/P001		X
606	900.10	766911.5	917826.6	NBT/P001		X
607	900.64	766901.8	917830.3	NBT/P001		X
608	861.51	766614.6	917449.8	NBT/P001		X
609	895.16	767176.0	918342.1	NBT/P001		X
610	909.10	766978.1	918572.3	NBT/P001		X
611	909.11	766982.3	918579.3	NBT/P001		X
612	903.93	766991.4	918321.7	NBT/P001		X
613	903.94	766986.7	918314.2	NBT/P001		X
614	811.80	764906.7	916538.0	WBA	X	
615	862.69	766479.4	917558.0	NBT/P001		X
616	888.18	767296.7	918241.6	NBT/P001		X
617	895.77	767312.2	918427.0	NBT/P001		X
618	909.29	767604.5	918632.7	TFA		X
619	896.45	765999.4	919160.0	TVD/ML	X	
620	887.16	765775.4	919122.9	TVD/ML	X	
621	841.97	765343.7	918569.7	TVD/ML	X	
622	842.11	765344.6	918560.8	TVD/ML	X	
623	852.67	765292.6	918000.3	TVD/ML	X	
624	853.46	765299.7	918006.4	TVD/ML	X	
625	808.77	764081.1	916908.4	SBA	X	
626	808.60	764076.2	916901.0	SBA	X	
627	812.96	764545.6	916922.9	SBA	X	
628	812.43	764537.3	916914.3	SBA	X	
629	818.39	765410.2	916642.9	WBA	X	
630	817.63	765399.8	916638.6	WBA	X	
631	829.38	766060.3	916906.3	WBA	X	
632	853.24	765667.6	917925.0	WMA	X	
P01	810.62	765207.2	917610.9	WMA	X	
P02	809.61	765162.9	917434.9	WMA	X	
P04	914.73	766897.6	919096.5	TFA		X
P07	894.47	766152.6	919063.9	TVD/ML	X	
P08	894.70	766137.6	919137.3	TVD/ML	X	
P11	895.21	765943.1	919227.8	TVD/ML	X	

Planar coordinates are relative to the New York State grid and are expressed in feet.

Lists "A" and "B" are to be alternated as follows:

In Year 1, List "A" wells shall be measured in the first and third quarters; List "B" wells in the second and fourth quarters. In Year 2, List "A" wells shall be measured in the second and fourth quarters; List "B" wells in the first and third quarters. Years 3, 5, 7, etc. shall be the same as Year 1 and Years 4, 6, 8, etc. shall be the same as Year 2.

**Table B-2b: Contaminant Reduction Monitoring Wells
for Groundwater Sampling**

Well	Site Area	Site Region	Sampling Frequency	List "A"	List "B"
107A*	TFA	North	Q	X	X
110	TFA	North	S		X
124	TFA	North	S		X
125	TFA	North	S		X
127	TFA	North	S		X
128	TFA	North	A		X
129	TFA	North	S		X
132	TFA	North	A		X
134	TFA	North	S		X
353	TFA	North	A		X
354	TFA	North	A		X
618	TFA	North	S		X
P04	TFA	North	A		X
521	MT	North	S		X
522	MT	North	Q	X	X
524	MT	North	S		X
529	MT	North	Q	X	X
532	MT	North	Q	X	X
534	MT	North	Q	X	X
140R	NBT/P001	North	A		X
146	NBT/P001	North	S		X
157	NBT/P001	North	S		X
324	NBT/P001	North	S		X
325	NBT/P001	North	S		X
357	NBT/P001	North	S		X
358	NBT/P001	North	A		X
378	NBT/P001	North	S		X
383	NBT/P001	North	S		X
392	NBT/P001	North	S		X
393	NBT/P001	North	Q	X	X
394	NBT/P001	North	S		X
397	NBT/P001	North	A		X
398	NBT/P001	North	S		X
399	NBT/P001	North	Q	X	X
603	NBT/P001	North	S		X
604	NBT/P001	North	S		X
605	NBT/P001	North	A		X
606	NBT/P001	North	Q	X	X
607	NBT/P001	North	Q	X	X
608	NBT/P001	North	S		X
609	NBT/P001	North	A		X
610	NBT/P001	North	S		X
611	NBT/P001	North	S		X
612	NBT/P001	North	S		X
613	NBT/P001	North	S		X
615	NBT/P001	North	A		X
616	NBT/P001	North	S		X
617	NBT/P001	North	S		X
101	SBA	South	S	X	
186	SBA	South	S	X	
314	SBA	South	A	X	
318	SBA	South	Q	X	X
319	SBA	South	Q	X	X
322	SBA	South	Q	X	X
323	SBA	South	Q	X	X
351	SBA	South	S	X	
352	SBA	South	A	X	
355	SBA	South	A	X	
356	SBA	South	A	X	
625	SBA	South	Q	X	X
626	SBA	South	S	X	
627	SBA	South	S	X	
540	SBA	South	S	X	
541	SBA	South	S	X	

**Table B-2b: Contaminant Reduction Monitoring Wells
for Groundwater Sampling**

Well	Site Area	Site Region	Sampling Frequency	List "A"	List "B"
542	SBA	South	S	X	
543	SBA	South	S	X	
133	TVD/MLA	South	S	X	
306	TVD/MLA	South	A	X	
308	TVD/MLA	South	S	X	
309	TVD/MLA	South	S	X	
313	TVD/MLA	South	A	X	
321	TVD/MLA	South	S	X	
362	TVD/MLA	South	A	X	
363	TVD/MLA	South	A	X	
373	TVD/MLA	South	S	X	
374	TVD/MLA	South	S	X	
619	TVD/MLA	South	A	X	
620	TVD/MLA	South	S	X	
621	TVD/MLA	South	S	X	
622	TVD/MLA	South	S	X	
P08	TVD/MLA	South	A	X	
P11	TVD/MLA	South	A	X	
158	WBA	South	A	X	
160	WBA	South	S	X	
162	WBA	South	S	X	
163	WBA	South	A	X	
165	WBA	South	S	X	
166	WBA	South	S	X	
167	WBA	South	S	X	
185	WBA	South	S	X	
316	WBA	South	S	X	
317	WBA	South	S	X	
614	WBA	South	A	X	
631	WBA	South	S	X	
120	WMA	South	S	X	
148	WMA	South	S	X	
149	WMA	South	S	X	
178	WMA	South	S	X	
179	WMA	South	S	X	
181	WMA	South	A	X	
183	WMA	South	S	X	
194	WMA	South	S	X	
403	WMA	South	S	X	
632	WMA	South	S	X	

Key:

MT = Moore Tire Area (off-site)
 NBT/P001 = NW Bedrock Trough/P001 Area
 SBA = Southern Boundary Area
 TFA = Tank Farm Area
 TVD/MLA = Tower View Drive/Mirror Lake Area
 WBA = Western Boundary Area
 WMA = Waste Management Area
 A = Annual
 S = Semiannual
 Q = Quarterly
 * Site-wide upgradient well to be sampled quarterly.

X = Analyze all samples for volatile organic compounds by SW846 Method 8021 or Method

Lists "A" and "B" are to be alternated as follows:

In Year 1, List "A" wells shall be sampled in the first and third quarters; List "B" wells in the second and fourth quarters. In Year 2, List "A" wells shall be sampled in the second and fourth quarters; List "B" wells in the first and third quarters. Years 3, 5, 7, etc. shall be the same as Year 1 and Years 4, 6, 8, etc. shall be the same as Year 2.

All listed monitoring wells are hydraulic effectiveness monitoring wells. Refer to Table 2a for a complete list and schedule of groundwater elevation measurements.

APPENDIX C

GROUNDWATER ELEVATION DATA January 1, 2014 - December 31, 2014

2014 WELL INSPECTION SUMMARY WITH DEDICATED EQUIPMENT ASSIGNMENTS

**Former Owego, New York Facility
Groundwater Elevation Data**

Northern Areas (NBT/P001, TFA)				Southern Areas (WMA, WBA, SBA TVD/MLA)				Northern Areas (NBT/P001, TFA)			
Well Number	TOC Elevation	07/24/2014 DTW	07/24/2014 GWE	Well Number	TOC Elevation	10/06/2014 DTW	10/06/2014 GWE	Well Number	TOC Elevation	11/04/2014 DTW	11/04/2014 GWE
106	914.91	6.27	908.64	101	814.01	19.50	794.51	364	897.72	36.23	861.49
107A	961.80	20.14	941.66	120	846.20	25.67	820.53	378	900.05	39.32	860.73
110	946.88	11.77	935.11	133	897.22	27.41	869.81	607	900.64	39.79	860.85
113	914.83	9.41	905.42	147	871.57	18.76	852.81	357	863.91	3.50	860.41
114	916.13	Dry	<899.48	148	857.87	21.60	836.27	393	892.69	31.93	860.76
123	903.96	7.75	896.21	149	834.27	23.32	810.95	367	910.15	48.68	861.47
124	911.43	12.92	898.51	158	838.28	12.16	826.12	140R	889.14	34.18	854.96
125	905.36	10.36	895.00	160	824.31	21.02	803.29	395	890.07	29.91	860.16
126	908.95	11.60	897.35	161	824.96	21.72	803.24	324	892.67	35.43	857.24
127	909.65	9.56	900.09	162	825.50	13.45	812.05	412	890.34	30.30	860.04
128	914.23	18.72	895.51	163	825.40	13.96	811.44	413	889.28	36.62	852.66
129	912.10	3.66	908.44	165	817.50	22.76	794.74	414	893.23	38.25	854.98
132	915.31	19.13	896.18	166	813.71	29.12	784.59	325	892.15	32.57	859.58
134	916.46	21.41	895.05	167	813.26	12.50	800.76	604	885.48	17.22	868.26
140R	889.14	32.83	856.31	178	812.22	11.80	800.42	365	898.02	37.64	860.38
143	884.81	9.45	875.36	179	818.32	43.22	775.10	379	899.67	39.66	860.01
146	868.04	6.77	861.27	181	894.65	31.76	862.89	394	892.51	32.57	859.94
154	861.70	2.98	858.72	183	851.83	27.35	824.48	606	900.10	39.96	860.14
157	854.13	10.52	843.61	185	815.54	34.30	781.24	399	867.38	5.42	861.96
324	892.67	31.08	861.59	186	820.32	44.27	776.05	392	896.07	32.32	863.75
325	892.15	29.40	862.75	194	862.70	30.94	831.76	368	910.25	48.16	862.09
353	912.87	14.78	898.09	306	821.04	8.75	812.29				
354	912.85	12.88	899.97	308	876.26	18.78	857.48				
357	863.91	2.96	860.95	309	874.69	29.52	845.17				
358	864.08	2.95	861.13	313	849.79	34.31	815.48				
361	868.42	8.04	860.38	314	813.82	21.63	792.19				
364	897.72	35.02	862.70	316	813.46	28.43	785.03				
365	898.02	36.56	861.46	317	823.00	19.62	803.38				
366	912.48	39.28	873.20	318	814.19	19.98	794.21				
367	910.15	46.83	863.32	319	806.89	12.53	794.36				
368	910.25	45.84	864.41	321	853.72	27.80	825.92				
378	900.05	38.10	861.95	322	806.20	12.08	794.12				
379	899.67	38.61	861.06	323	813.67	19.27	794.40				
382	912.59	12.08	900.51	351	805.62	13.25	792.37				
383	867.39	6.20	861.19	352	806.48	13.23	793.25				
392	896.07	32.27	863.80	355	813.42	19.86	793.56				
393	892.69	30.47	862.22	356	813.31	18.99	794.32				
394	892.51	31.20	861.31	362	832.69	18.66	814.03				
395	890.07	28.52	861.55	363	855.07	37.72	817.35				
397	865.79	11.40	854.39	372	904.96	46.24	858.72				
398	865.37	11.06	854.31	373	832.19	17.70	814.49				
399	867.38	4.96	862.42	374	821.25	8.93	812.32				
412	890.34	29.00	861.34	375	833.00	16.73	816.27				
413	889.28	35.87	853.41	386	822.26	17.02	805.24				
414	893.23	39.00	854.23	387	817.59	DRY	<802.2				
415	914.38	19.32	895.06	391	833.75	17.54	816.21				
521	863.78	2.67	861.11	540	810.55	18.34	792.21				
522	864.46	2.68	861.78	541	812.11	20.33	791.78				
524	866.28	5.38	860.90	542	806.40	14.24	792.16				
529	863.93	3.54	860.39	543	823.64	29.99	793.65				
532	866.34	5.43	860.91	614	811.80	21.77	790.03				
534	862.88	1.91	860.97	619	896.45	10.37	886.08				
601	862.08	3.47	858.61	620	887.16	DRY	<869.6				
602	862.15	7.03	855.12	621	841.97	25.28	816.69				
603	864.18	10.57	853.61	622	842.11	24.47	817.64				
604	885.48	16.89	868.59	623	852.67	44.27	808.40				
605	885.23	18.47	866.76	624	853.46	45.55	807.91				
606	900.10	38.92	861.18	625	808.77	14.56	794.21				
607	900.64	38.83	861.81	626	808.60	16.61	791.99				
608	861.51	4.80	856.71	627	812.96	18.55	794.41				
609	895.83	25.70	870.13	628	812.43	24.77	787.66				
610	909.10	16.87	892.23	629	818.39	33.48	784.91				
611	909.11	11.60	897.51	630	817.63	33.00	784.63				
612	903.93	33.11	870.82	631	829.38	8.56	820.82				
613	903.94	31.60	872.34	632	853.24	34.80	818.44				
615	862.69	8.76	853.93	P01	810.62	5.50	805.12				
616	888.18	7.67	880.51	P02	809.61	8.82	800.79				
617	895.77	5.86	889.91	P07	894.47	4.73	889.74				
618	909.29	10.42	898.87	P08	894.70	5.70	889.00				
P04	914.73	6.67	908.06	P11	895.21	11.43	883.78				
540	810.55	17.13	793.42	DRY = Water level less than bottom elevation							
541	812.11	19.30	792.81	TOC = Top of casing or measuring point							
542	806.40	13.26	793.14	DTW = Depth to water from top of casing (ft)							
543	823.64	28.95	794.69	GWE = Groundwater elevation (ft amsl)							

2014 Well Inspection Summary with Dedicated Equipment Assignments

Well ID	Reference DTB	2014 Measured DTB	Depth Differential	Well Tag Condition?	Reference Point Visible?	Standpipe Paint Condition?	Sanitary Seal Condition?	Dedicated Equipment
101	40.95	40.89	0.06	Good	Yes	Repaint	Good	PDB@37.9'
106	13.12	13.18	-0.06	Good	Yes	Repaint	Good	PDB@10.9'
107A	64.96	64.64	0.32	Good	Yes	Repaint	Good	PDB@~60'
110	20.11	21.12	-1.01	Good	Yes	Manhole	Good	PDB@15.9'
113	12.72	12.66	0.06	Good	Yes	Repaint	Good	None
114	14.70	13.32	1.38	Good	Yes	Repaint	Good	None
120	39.58	39.40	0.18	Good	Yes	Repaint	Good	PDB@24.0'
123	21.89	21.83	0.06	Good	Yes	Manhole	Good	None
124	25.14	25.26	-0.12	Good	Yes	Repaint	Good	PDB@23.9'
125	24.86	24.14	0.72	Good	Yes	Manhole	Good	PDB@23.6'
126	23.90	23.97	-0.07	Good	Yes	Manhole	Good	None
127	19.54	19.10	0.44	Good	Yes	Manhole	Good	PDB@18.8'
128	24.86	24.68	0.18	Good	Yes	Repaint	Good	PDB@22.2'
129	8.35	7.43	0.92	Good	Yes	Manhole	Good	PDB@5.4'
132	21.20	21.25	-0.05	Good	Yes	Repaint	Good	PDB@19.3'
133	31.50	31.44	0.06	Good	Yes	Repaint	Good	PDB@28.9'
134	42.89	42.85	0.04	Good	Yes	Repaint	Good	PDB@39.6'
140R	45.14	45.04	0.10	Good	Yes	Repaint	Good	PDB@42.6'
143	29.05	28.86	0.19	Good	Yes	Repaint	Good	None
146	25.86	25.85	0.01	Good	Yes	Repaint	Good	PDB@24.4'
147	27.28	27.27	0.01	Replaced	Yes	Repaint	Good	None
148	34.91	34.90	0.01	Good	Yes	Repaint	Good	PDB@34.8'
149	33.57	33.09	0.48	Good	Yes	Repaint	Good	PDB@31.7'
154	25.56	25.36	0.20	Good	Yes	Repaint	Good	None
157	20.02	19.88	0.14	Good	Yes	Repaint	Good	PDB@15.5'
158	39.76	39.37	0.39	Good	Yes	Repaint	Good	PDB@35.1'
160	58.46	58.44	0.02	Good	Yes	Repaint	Good	PDB@57.2'
161	22.74	22.60	0.14	Good	Yes	Repaint	Good	None
162	50.43	50.43	0.00	Good	Yes	Repaint	Good	PDB@45.8'
163	25.49	25.27	0.22	Good	Yes	Repaint	Good	PDB@21.6'
165	44.21	43.86	0.35	Good	Yes	Repaint	Good	PDB@38.0'
166	90.56	90.47	0.09	Good	Yes	Repaint	Good	PDB@84.7'
167	25.52	25.28	0.24	Good	Yes	Repaint	Good	PDB@20.5'
178	36.38	36.27	0.11	Good	Yes	Repaint	Good	PDB@35.6'
179	71.51	71.42	0.09	Good	Yes	Repaint	Good	PDB@70.7'
181	40.60	40.60	0.00	Good	Yes	Repaint	Good	PDB@38.0'
183	30.50	30.64	-0.14	Good	Yes	Repaint	Good	PDB@27.5'
185	94.20	94.15	0.05	Good	Yes	Repaint	Good	Ded. 2" SP
186	96.27	95.73	0.54	Good	Yes	Repaint	Good	Ded. 2" SP
194	113.37	112.37	1.00	Good	Yes	Repaint	Good	Ded. 2" SP
306	62.50	62.25	0.25	Good	Yes	Repaint	Good	Ded. 2" SP
308	29.99	29.98	0.01	Good	Yes	Repaint	Good	PDB@25.1'
309	32.17	32.10	0.07	Good	Yes	Repaint	Good	PDB@26.8'
313	39.50	39.85	-0.35	Good	Yes	Repaint	Good	PDB@36.0'
314	100.43	100.07	0.36	Good	Yes	Repaint	Good	PDB@98.2'
316	48.99	48.93	0.06	Good	Yes	Repaint	Good	PDB@44.5'
317	47.16	47.08	0.08	Good	Yes	Repaint	Good	PDB@42.4'
318	47.32	47.25	0.07	Good	Yes	Repaint	Good	PDB@43.3'
319	45.23	44.56	0.67	Good	Yes	Repaint	Good	PDB@40.6'
321	39.56	39.57	-0.01	Good	Yes	Repaint	Good	PDB@35.6'
322	45.74	45.18	0.56	Good	Yes	Repaint	Good	PDB@41.5'
323	47.35	47.02	0.33	Good	Yes	Repaint	Good	PDB@42.1'
324	53.43	53.64	-0.21	Good	Yes	Repaint	Good	PDB@48.4'
325	42.61	42.51	0.10	Good	Yes	Repaint	Good	PDB@39.1'
351	90.40	90.15	0.25	Good	Yes	Repaint	Good	Ded. 2" SP
352	87.41	87.19	0.22	Good	Yes	Repaint	Good	Ded. 2" SP
353	28.57	28.42	0.15	Good	Yes	Manhole	Good	PDB@26.1'
354	17.25	17.16	0.09	Good	Yes	Manhole	Good	Bailer-3'
355	97.90	97.89	0.01	Good	Yes	Repaint	Good	PDB@95.1'

2014 Well Inspection Summary with Dedicated Equipment Assignments

Well ID	Reference DTB	2014 Measured DTB	Depth Differential	Well Tag Condition?	Reference Point Visible?	Standpipe Paint Condition?	Sanitary Seal Condition?	Dedicated Equipment
356	70.32	70.08	0.24	Good	Yes	Repaint	Good	PDB@67.5'
357	34.53	34.40	0.13	Good	Yes	Repaint	Good	PDB@32.1'
358	17.64	17.07	0.57	Good	Yes	Repaint	Good	PDB@14.3'
361	35.39	35.23	0.16	Good	Yes	Repaint	Good	PDB@33.1'
362	66.64	66.47	0.17	Good	Yes	Repaint	Good	PDB@63.9'
363	45.53	45.35	0.18	Good	Yes	Repaint	Good	PDB@43.6'
364	65.27	65.10	0.17	Good	Yes	Repaint	Good	PDB@62.7'
365	45.86	45.66	0.20	Good	Yes	Repaint	Good	PDB@43.3'
366	42.99	42.80	0.19	Good	Yes	Repaint	Good	Bailer-3'
367	72.55	72.30	0.25	Good	Yes	Repaint	Good	PDB@69.8'
368	49.42	48.67	0.75	Good	Yes	Repaint	Good	Bailer-3'
372	65.82	65.39	0.43	Good	Yes	Repaint	Good	None
373	45.70	45.62	0.08	Good	Yes	Repaint	Good	PDB@40.7'
374	20.54	20.78	-0.24	Good	Yes	Repaint	Good	PDB@15.7'
375	45.58	45.58	0.00	Good	Yes	Repaint	Good	None
378	77.22	77.14	0.08	Good	Yes	Repaint	Good	PDB@74.0'
379	51.92	52.56	-0.64	Good	Yes	Repaint	Good	PDB@49.4'
382	22.58	22.36	0.22	Good	Yes	Repaint	Good	PDB@19.7'
383	16.99	16.70	0.29	Good	Yes	Repaint	Good	PDB@14.3'
386	17.46	17.30	0.16	Good	Yes	Repaint	Good	PDB@14.9'
387	15.52	15.39	0.13	Good	Yes	Repaint	Good	PDB@12.5'
391	30.18	30.20	-0.02	Good	Yes	Repaint	Good	None
392	45.07	46.12	-1.05	Good	Yes	Repaint	Good	PDB@40.1'
393	65.19	64.91	0.28	Good	Yes	Repaint	Good	Ded. 2" SP
394	47.01	47.25	-0.24	Good	Yes	Repaint	Good	PDB@42.0'
395	65.10	64.90	0.20	Good	Yes	Repaint	Good	PDB@62.0'
397	39.69	39.84	-0.15	Good	Yes	Repaint	Good	PDB@37.2'
398	18.07	18.58	-0.51	Good	Yes	Repaint	Good	PDB@13.1'
399	16.59	16.55	0.04	Good	Yes	Repaint	Good	PDB@11.1'
404	Extraction Well - Inaccessible			Good	Yes	Repaint	NA	None
405	Extraction Well - Inaccessible			Good	Yes	Repaint	NA	None
412	Extraction Well - Inaccessible			Good	Yes	Repaint	NA	Bailer-3'
413	Extraction Well - Inaccessible			Good	Yes	Repaint	NA	None
414	Extraction Well - Inaccessible			Good	Yes	Repaint	NA	Bailer-3'
415	Extraction Well - Inaccessible			Good	Yes	Repaint	NA	None
521	39.55	39.48	0.07	Good	Yes	Manhole	Good	PDB@38.2'
522	34.08	33.93	0.15	Good	Yes	Repaint	Good	PDB@31.2'
524	36.17	36.10	0.07	Good	Yes	Repaint	Good	PDB@33.2'
529	13.76	13.75	0.01	Good	Yes	Manhole	Good	PDB@11.4'
532	16.58	17.17	-0.59	Good	Yes	Repaint	Good	PDB@12.3'
534	13.34	13.14	0.20	Good	Yes	Manhole	Good	PDB@8.5'
540	51.03	50.90	0.13	Good	Yes	Repaint	None	PDB@46.3'
541	55.03	54.88	0.15	Good	Yes	Repaint	None	PDB@50.1'
542	44.64	44.52	0.12	Good	Yes	Repaint	None	PDB@39.4'
543	54.27	54.10	0.17	Good	Yes	Repaint	None	PDB@49.0'
601	15.56	15.38	0.18	Good	Yes	Repaint	Good	PDB@10.1'
602	19.54	19.30	0.24	Good	Yes	Repaint	Good	PDB@13.1'
603	17.95	17.76	0.19	Good	Yes	Repaint	Good	PDB@13.0'
604	22.14	22.02	0.12	Good	Yes	Manhole	Good	PDB@21.5'
605	46.50	46.31	0.19	Good	Yes	Manhole	Good	PDB@47.7'
606	47.40	47.38	0.02	Good	Yes	Manhole	Good	PDB@44.9'
607	59.74	59.65	0.09	Good	Yes	Manhole	Good	PDB@57.7'
608	16.77	16.60	0.17	Good	Yes	Repaint	Good	PDB@11.4'
609	51.66	52.31	-0.65	Good	Yes	Manhole	Good	PDB@49.2'
610	32.40	32.07	0.33	Good	Yes	Manhole	Good	PDB@29.9'
611	13.41	13.30	0.11	Good	Yes	Manhole	Good	Peristaltic
612	56.64	56.91	-0.27	Good	Yes	Manhole	Good	PDB@55.9'
613	41.63	41.40	0.23	Good	Yes	Manhole	Good	PDB@36.4'
614	105.42	105.04	0.38	Good	Yes	Repaint	Good	PDB@102.6'

2014 Well Inspection Summary with Dedicated Equipment Assignments

Well ID	Reference DTB	2014 Measured DTB	Depth Differential	Well Tag Condition?	Reference Point Visible?	Standpipe Paint Condition?	Sanitary Seal Condition?	Dedicated Equipment
615	46.07	45.90	0.17	Good	Yes	Repaint	Good	PDB@42.7'
616	31.56	31.35	0.21	Good	Yes	Repaint	Good	PDB@28.0'
617	37.34	37.12	0.22	Good	Yes	Manhole	Good	PDB@34.7'
618	28.86	28.65	0.21	Good	Yes	Repaint	Good	PDB@26.6'
619	15.07	14.90	0.17	Good	Yes	Manhole	Good	PDB@12.2'
620	17.56	17.42	0.14	Good	Yes	Repaint	Good	Peristaltic
621	37.41	37.19	0.22	Good	Yes	Repaint	Good	PDB@32.0'
622	46.53	46.35	0.18	Good	Yes	Repaint	Good	PDB@43.6'
623	54.59	54.40	0.19	Good	Yes	Repaint	Good	PDB@49.0'
624	64.39	64.15	0.24	Replace	Yes	Repaint	Good	PDB@61.5'
625	44.58	44.33	0.25	Good	Yes	Repaint	Good	PDB@39.0'
626	92.41	92.14	0.27	Good	Yes	Repaint	Good	PDB@91.1'
627	50.91	50.82	0.09	Good	Yes	Repaint	Good	PDB@44.8'
628	100.50	100.60	-0.10	Good	Yes	Repaint	Good	PDB@97.0'
629	51.45	51.25	0.20	Good	Yes	Repaint	Good	PDB@45.2'
630	93.55	93.35	0.20	Good	Yes	Repaint	Good	PDB@90.1'
631	31.53	31.32	0.21	Good	Yes	Repaint	Good	PDB@27.9'
632	39.34	39.10	0.24	Good	Yes	Repaint	Good	PDB@35.9'
P01	11.23	11.10	0.13	Good	Yes	Repaint	Good	None
P02	10.49	10.32	0.17	Good	Yes	Repaint	Good	None
P04	20.31	20.37	-0.06	Good	Yes	Repaint	Good	PDB@17.6'
P07	5.55	5.15	0.40	Good	Yes	Manhole	Good	None
P08	8.73	8.67	0.06	Good	Yes	Manhole	Good	PDB@~6.7'
P11	14.84	14.61	0.23	Good	Yes	Manhole	Good	PDB@11'

Key:

DTB = Depth to Bottom

Ded. 2" SP = Dedicated 2-inch diameter submersible pump

Length of bailer in feet is indicated where a bailer is used.

PDB@X = Polyethylene diffusion bag sampling device set at indicated depth below top of casing.

All measurements in feet.

APPENDIX D

2014 SAMPLING PLAN

GROUNDWATER MONITORING PROGRAM

**Former Owego, New York Facility
2014 Groundwater Monitoring Plan**

Well	Site Area	Site Region	Northern Areas (Semiannual)	Southern Areas (Semiannual)	Northern Areas (Annual)	Southern Areas (Annual)	Sampling Frequency	Program	Unit Monitored
			1st Quarter 2014	2nd Quarter 2014	3rd Quarter 2014	4th Quarter 2014			
101	SBA	South		X		X	S	GMP	Outwash Sand
106	TFA	North	X	X	X	X	Q	V	Till?
107A	TFA	North	X	X	X	X	Q	GMP	Bedrock
110	TFA	North	X		X		S	GMP	Till/Bedrock
120	WMA	South		X		X	S	GMP	Till/Bedrock
124	TFA	North	X		X		S	GMP	Till/Bedrock
125	TFA	North	X		X		S	GMP	Sand & Gravel/Bedrock
127	TFA	North	X		X		S	GMP	Sand & Gravel/Bedrock
128	TFA	North			X		A	GMP	Till/Bedrock
129	TFA	North	X		X		S	GMP	Till/Bedrock
132	TFA	North			X		A	GMP	Bedrock
133	TVD/MLA	South		X		X	S	GMP	Till/Bedrock
134	TFA	North	X		X		S	GMP	Till/Bedrock
140R	NBT/P001	North			X		A	GMP	Till/Bedrock
146	NBT/P001	North	X		X		S	GMP	Till/Bedrock
148	WMA	South		X		X	S	GMP	Till/Bedrock
149	WMA	South		X		X	S	GMP	Till/Bedrock
157	NBT/P001	North	X		X		S	GMP	Till/Bedrock
158	WBA	South				X	A	GMP	Till/Bedrock
160	WBA	South		X		X	S	GMP	Basal Till
162	WBA	South		X		X	S	GMP	Till/Bedrock
163	WBA	South				X	A	GMP	Alluvial Silt and Gravel
165	WBA	South		X		X	S	GMP	Till/Bedrock
166	WBA	South		X		X	S	GMP	Till/Bedrock
167	WBA	South		X		X	S	GMP	Silt
178	WMA	South		X		X	S	GMP	Gravel/Bedrock
179	WMA	South		X		X	S	GMP	Outwash Sand
181	WMA	South				X	A	GMP	Till/Bedrock
183	WMA	South		X		X	S	GMP	Till/Bedrock
185	WBA	South		X		X	S	GMP	Sand & Gravel/Bedrock
186	SBA	South		X		X	S	GMP	Sand & Gravel/Bedrock
194	WMA	South		X		X	S	GMP	Bedrock
306	TVD/MLA	South				X	A	GMP	Sand & Gravel/Bedrock
308	TVD/MLA	South		X		X	S	GMP	Till/Bedrock
309	TVD/MLA	South		X		X	S	GMP	Till
313	TVD/MLA	South				X	A	GMP	Till/Bedrock?
314	SBA	South				X	A	GMP	Basal Till
316	WBA	South		X		X	S	GMP	Glaciolac., vf sand, silt, clay
317	WBA	South		X		X	S	GMP	Outwash Sand & Gravel
318	SBA	South	X	X	X	X	Q	GMP	Outwash Sand & Gravel
319	SBA	South	X	X	X	X	Q	GMP	Outwash Sand
321	TVD/MLA	South		X		X	S	GMP	Sand & Gravel/Till
322	SBA	South	X	X	X	X	Q	GMP	Outwash Sand & Gravel
323	SBA	South	X	X	X	X	Q	GMP	Outwash Sand
324	NBT/P001	North	X		X		S	GMP	Till/Bedrock
325	NBT/P001	North	X		X		S	GMP	Alluvial Gravel
351	SBA	South		X		X	S	GMP	Till/Bedrock
352	SBA	South				X	A	GMP	Basal Till
353	TFA	North			X		A	GMP	Bedrock
354	TFA	North			X		A	GMP	Till
355	SBA	South				X	A	GMP	Bedrock
356	SBA	South				X	A	GMP	Outwash Sand & Gravel
357	NBT/P001	North	X		X		S	GMP	Bedrock
358	NBT/P001	North			X		A	GMP	Alluvial Sand & Gravel
361	NBT/P001	North			X		A	V	Bedrock
362	TVD/MLA	South				X	A	GMP	Bedrock
363	TVD/MLA	South				X	A	GMP	Bedrock
364	NBT/P001	North			X		A	V	Till/Bedrock
365	NBT/P001	North			X		A	V	Alluvial Sand & Gravel
366	NBT/P001	North			X		A	V	Till/Bedrock
367	NBT/P001	North	X		X		S	V	Till/Bedrock
368	NBT/P001	North	X		X		S	V	Alluvial Silt, Sand, Gravel
373	TVD/MLA	South		X		X	S	GMP	Outwash Sand & Gravel
374	TVD/MLA	South		X		X	S	GMP	Sand & Gravel
378	NBT/P001	North	X		X		S	GMP	Bedrock
379	NBT/P001	North			X		A	V	Till
382	NBT/P001	North			X		A	V	Fill
383	NBT/P001	North	X		X		S	GMP	Alluvial Silt & f. Sand
386	WMA	South				X	A	V	Alluvial Sand & Gravel

**Former Owego, New York Facility
2014 Groundwater Monitoring Plan**

Well	Site Area	Site Region	Northern Areas (Semiannual)	Southern Areas (Semiannual)	Northern Areas (Annual)	Southern Areas (Annual)	Sampling Frequency	Program	Unit Monitored
			1st Quarter 2014	2nd Quarter 2014	3rd Quarter 2014	4th Quarter 2014			
387	WBA	South				X	A	V	Alluvial Silt, Sand, Gravel
392	NBT/P001	North	X		X		S	GMP	Alluvial Silt, Sand, Gravel
393	NBT/P001	North	X	X	X	X	Q	GMP	Till/Bedrock
394	NBT/P001	North	X		X		S	GMP	Alluvial Silt, Sand, Gravel
395	NBT/P001	North			X		A	V	Till/Bedrock
397	NBT/P001	North			X		A	GMP	Till/Bedrock
398	NBT/P001	North	X		X		S	GMP	Alluvial Silt, Sand, Gravel
399	NBT/P001	North	X	X	X	X	Q	GMP	Alluvial Silt, Sand, Gravel
404	WMA	South	X	X	X	X	Q	V	Silt, Sand & Gravel
405	WMA	South	X	X	X	X	Q	V	Sand & Gravel/Till/Bedrock
412	NBT/P001	North	X	X	X	X	Q	V	Till/Bedrock
413	NBT/P001	North	X	X	X	X	Q	V	Alluvial Sand & Gravel/Till/Bedrock
414	NBT/P001	North	X	X	X	X	Q	V	Till/Bedrock
AP Wells*	NBT/P001	North	X	X	X	X	Q	V	Not applicable
415	TFA	North	X	X	X	X	Q	V	Till/Bedrock
521	MT	North	X		X		S	GMP	Till/Bedrock
522	MT	North	X	X	X	X	Q	GMP	Till/Bedrock
524	MT	North	X		X		S	GMP	Till/Bedrock
529	MT	North	X	X	X	X	Q	GMP	Alluvial Silt, Sand, Gravel
532	MT	North	X	X	X	X	Q	GMP	Alluvial Silt, Sand, Gravel
534	MT	North	X	X	X	X	Q	GMP	Alluvial Silt, Sand, Gravel
540	SBA	South		X		X	S	GMP	Outwash Sand & Gravel
541	SBA	South		X		X	S	GMP	Outwash Sand & Gravel
542	SBA	South		X		X	S	GMP	Outwash Sand & Gravel
543	SBA	South		X		X	S	GMP	Outwash Sand & Gravel
601	NBT/P001	North	X		X		S	V	Alluvial Silt, Sand, Gravel
602	NBT/P001	North	X		X		S	V	Alluvial Silt & Sand
603	NBT/P001	North	X		X		S	GMP	Alluvial Sand & Gravel
604	NBT/P001	North	X		X		S	GMP	Alluvial Silt & Sand
605	NBT/P001	North			X		A	GMP	Till/Bedrock
606	NBT/P001	North	X	X	X	X	Q	GMP	Alluvial Silt, Sand, Gravel
607	NBT/P001	North	X	X	X	X	Q	GMP	Till/Bedrock
608	NBT/P001	North	X		X		S	GMP	Alluvial Silt, Sand, Gravel
609	NBT/P001	North			X		A	GMP	Till/Bedrock
610	NBT/P001	North	X		X		S	GMP	Till/Bedrock
611	NBT/P001	North	X		X		S	GMP	Fill/Alluvial Sand & Silt
612	NBT/P001	North	X		X		S	GMP	Till/Bedrock
613	NBT/P001	North	X		X		S	GMP	Alluvial Silt, Sand, Gravel
614	WBA	South				X	A	GMP	Till/Bedrock
615	NBT/P001	North			X		A	GMP	Bedrock
616	NBT/P001	North	X		X		S	GMP	Till/Bedrock
617	NBT/P001	North	X		X		S	GMP	Till/Bedrock
618	TFA	North	X		X		S	GMP	Till/Bedrock
619	TVD/MLA	South				X	A	GMP	Till/Bedrock
620	TVD/MLA	South		X		X	S	GMP	Alluvial Sand & Gravel/Till
621	TVD/MLA	South		X		X	S	GMP	Outwash Sand & Gravel
622	TVD/MLA	South		X		X	S	GMP	Till/Bedrock
623	TVD/MLA	South				X	A	V	Fill/Alluvial Sand & Silt
624	TVD/MLA	South				X	A	V	Till/Bedrock
625	SBA	South	X	X	X	X	Q	GMP	Outwash Sand & Gravel
626	SBA	South		X		X	S	GMP	Till/Bedrock
627	SBA	South		X		X	S	GMP	Outwash Sand & Gravel
628	SBA	South				X	A	V	Till/Bedrock
629	WBA	South				X	A	V	Outwash Silt, Sand, Gravel
630	WBA	South				X	A	V	Till/Bedrock
631	WBA	South		X		X	S	GMP	Outwash Sand & Gravel
632	WMA	South		X		X	S	GMP	Till/Bedrock
P04	TFA	North			X		A	GMP	Till
P08	TVD/MLA	South				X	A	GMP	Till?
P11	TVD/MLA	South				X	A	GMP	Till?
Sample Count:			54	57	72	79	Total:	262	

Key:

X	Collect sample	MT: Moore Tire Area (off-site)
Q	Quarterly frequency	NBT/P001: NW Bedrock Trough/P001 Area
S	Semiannual frequency	SBA: Southern Boundary Area (some off-site)
A	Annual frequency	TFA: Tank Farm Area
*	Combined flow from wells 412, 413, 414	TVD/MLA: Tower View Drive/Mirror Lake Area
GMP	Groundwater Monitoring Program Well	WBA: Western Boundary Area
V	Voluntary Sampling Well	WMA: Waste Management Area

APPENDIX E

CHAINS OF CUSTODY

THIRD AND FOURTH QUARTERS 2014

Client Information				Matrix		Preservation Code												For Lab Use Only	
Client IBM - Chicago		Acct # 0911		☐ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Soil ☐ Water ☐ Oil		SCR#												Preservation Codes H = HCl T = Thiocyanate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
Project Name# 3rd CH GW Sample		SSOW # 93004.30																	
IBM PM K. Whelan		Project State NJ																	
P.O.# CAR 93004.09		Sampler J. Ronis																	
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M																		Remarks	
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs OU: <u>Routine</u> (Endicott Non-Routine only)																			
(2)		Collected		Composite															
Sample Identification		Date Time		Grab		Total # of Containers SCOW from 1B-1030													
00013 14 0708P		7/29/14 9:11		X															
000617 14 0708P		9:27		Gw															
00124 14 0708P		9:57		 															
00133 14 0708P		10:12		 															
00129 14 0708P		10:25		 															
05001 14 0708P		10:42		 															
000P4 14 0708P		10:50		 															
00107A 14 0708P		11:14		 															
00110 14 0708P		11:34		 															
00106 14 0708P		12:37		 															
(7) Turnaround Time Requested (TAT) (please circle)				Reinquired by		Date		Time		Received by		Date		Time		(9)			
Standard Rush				[Signature]		7/29/14		1800											
(Rush TAT is subject to Lancaster Laboratories approval and surcharges.)				Reinquired by		Date		Time		Received by		Date		Time					
Date results are needed: 10 Days				Reinquired by		Date		Time		Received by		Date		Time					
Rush results requested by (please circle) E-mail Phone				Reinquired by		Date		Time		Received by		Date		Time					
E-mail: Phone:				Reinquired by		Date		Time		Received by		Date		Time					
(8) Data Package Options (please circle if required)				Reinquired by		Date		Time		Received by		Date		Time					
Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A										[Signature]		7.30.14		0815					
Type III (Reduced NJ) MA MCP NY ASP B																			
Type VI (Raw Data Only) CT RCP																			
SDG Complete? Yes No				Site-specific QC (MS/MSD/Dup)? Yes No						Temperature upon receipt 3.1 °C									
* NY DEC B				Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 The white copy should accompany many samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.															

IBM Chain of Custody



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Laboratories

Acct. # 6911 For Eurofins Lancaster Laboratories use only
Group # 1492371 Sample # 7548247-76
Instructions on reverse side correspond with circled numbers.

COC # 17077

1 Client Information				4 Matrix				5 Analyses Requested				For Lab Use Only	
Client: <u>IBM - Owego</u> Acct. # <u>6911</u>				☐ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Total # of Containers: <u>83400 Plus 1030</u>				Preservation Code				SCR#	
Project Name: <u>3rd Qtr Gw Sampling</u> SOW # <u>93004.30</u>								H					
IBM PM: <u>R. Whalen</u> Project State: <u>NY</u>													
P.O. # <u>CAR93004.39</u> Sample: <u>JRoni's</u>													
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M ☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs OU: <u>Routine</u> (Endicott Non-Routine only)												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
2 Sample Identification				3 Composite								6 Remarks	
		Collected		Grab		Soil		Water		Oil		Total # of Containers	
		Date	Time										
0010414 0708P		7/28/14	1253	X		Gw				X			
0041514 0708P			1304										
0012814 0708P			1335										
0061814 0708P			1357										
0061614 0708P			1408										
0038914 0708P			1437										
0036614 0708P			1445										
0036814 0708P			1507										
0036714 0708P			1518										
0039314 0708P			1550										
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by				Date				Time	
(Standard) Rush				7/29/14				1800					
(Rush TAT is subject to Lancaster Laboratories approval and surcharges.)				Relinquished by				Date				Time	
Date results are needed: <u>10/13/15</u>				Relinquished by				Date				Time	
Rush results requested by (please circle) E-mail Phone				Relinquished by				Date				Time	
E-mail: Phone:				Relinquished by				Date				Time	
8 Data Package Options (please circle if required)				Site-specific QC (MS/MSD/Dup)?				Temperature upon receipt					
Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A				Yes No				7.30.14 0815					
Type III (Reduced NJ) MA MCP NY ASP B													
Type VI (Raw Data Only) CT RCP													
SDG Complete? Yes (No)				(If yes, indicate QC sample and submit triplicate volume.)									

X NYSDEC 'B

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Acct. # 6911 For Eurofins Lancaster Laboratories use only
Group # 1492371 Sample # 7556252-81
Instructions on reverse side correspond with circled numbers.

COC # 17078

1 Client Information				4 Matrix				5 Analyses Requested				For Lab Use Only	
Client: <u>IBM - Owego</u> Acct. # <u>6911</u>				☐ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Total # of Containers: <u>83400 Plus 1030</u>				Preservation Code				SCR#	
Project Name: <u>3rd Qtr Gw Sampling</u> SOW # <u>93004.30</u>								H					
IBM PM: <u>R. Whalen</u> Project State: <u>NY</u>													
P.O. # <u>CAR93004.39</u> Sample: <u>JRoni's</u>													
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M ☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs OU: <u>Routine</u> (Endicott Non-Routine only)												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
2 Sample Identification				3 Composite								6 Remarks	
		Collected		Grab		Soil		Water		Oil		Total # of Containers	
		Date	Time										
001314 0708P		7/28/14	1310	X		Gw				X			
0039414 0708P			1607										
0060414 0708P			1653										
0060514 0708P			704										
00614 0708P			718										
0062514 0708P			757										
0031814 0708P			822										
0032914 0708P			835										
0031914 0708P			850										
0039314 0708P			904										
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by				Date				Time	
(Standard) Rush				7/29/14				1800					
(Rush TAT is subject to Lancaster Laboratories approval and surcharges.)				Relinquished by				Date				Time	
Date results are needed: <u>10/13/15</u>				Relinquished by				Date				Time	
Rush results requested by (please circle) E-mail Phone				Relinquished by				Date				Time	
E-mail: Phone:				Relinquished by				Date				Time	
8 Data Package Options (please circle if required)				Site-specific QC (MS/MSD/Dup)?				Temperature upon receipt					
Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A				Yes No				7.31.14 825					
Type III (Reduced NJ) MA MCP NY ASP B													
Type VI (Raw Data Only) CT RCP													
SDG Complete? Yes (No)				(If yes, indicate QC sample and submit triplicate volume.)									

X NYSDEC 'B

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Acct. # 6911

For Eurofins Lancaster Laboratories use only
Group # 1492817 Sample # 7550252-81
Instructions on reverse side correspond with circled numbers.

COC # 17081

1 Client Information				4 Matrix		5 Analyses Requested		For Lab Use Only	
Client: <u>IBM Atego</u> Acct. # <u>6911</u>						Preservation Code		SCR#	
Project Name: <u>3rd GTGw Supply</u> SOW # <u>93004.30</u>									
IBM PM: <u>R. Whalen</u> Project State: <u>NY</u>									
P.O. # <u>CAR93004.39</u> Sampler: <u>J. Ronis</u>									
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M									
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs									
OU: <u>Routine</u> (Endicott Non-Routine only)									
2 Sample Identification				3 Composite				6 Remarks	
		Collected		Grab					
		Date	Time						
Sample Identification				Soil	Water	Oil	Total # of Containers		
<u>00607140739P</u>		<u>7/31/14</u>	<u>1309</u>	☒	☒	☐	<u>6</u>		
<u>001402140739P</u>		<u>7/31/14</u>	<u>1331</u>	☐	☐	☐	<u>1</u>		
<u>00395140739P</u>		<u>7/31/14</u>	<u>1334</u>	☐	☐	☐	<u>1</u>		
<u>00412140739P</u>		<u>7/31/14</u>	<u>1347</u>	☐	☐	☐	<u>1</u>		
<u>00413140739P</u>		<u>7/31/14</u>	<u>1357</u>	☐	☐	☐	<u>1</u>		
<u>00414140739P</u>		<u>7/31/14</u>	<u>1412</u>	☐	☐	☐	<u>1</u>		
<u>00324140739P</u>		<u>7/31/14</u>	<u>1431</u>	☐	☐	☐	<u>1</u>		
<u>00335140739P</u>		<u>7/31/14</u>	<u>1442</u>	☐	☐	☐	<u>1</u>		
<u>00395140739P</u>		<u>7/31/14</u>	<u>1452</u>	☐	☐	☐	<u>1</u>		
<u>00395140739P</u>		<u>7/31/14</u>	<u>1508</u>	☐	☐	☐	<u>1</u>		
7 Turnaround Time Requested (TAT) (please circle)				8 Data Package Options (please circle if required)		9			
(Standard) Rush				Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A		Date results are needed: <u>10/1/14</u>			
Date results are needed: <u>10/1/14</u>				Type III (Reduced NJ) MA MCP NY ASP B		Rush results requested by (please circle) E-mail Phone			
E-mail: _____ Phone: _____				Type VI (Raw Data Only) CT RCP		E-mail: _____ Phone: _____			
SDG Complete? Yes ☐ No ☒				Site-specific QC (MS/MSD/Dup)? Yes ☐ No ☒		Temperature upon receipt <u>14</u> °C			
				(If yes, indicate QC sample and submit triplicate volume.)					

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Acct. # 6911

For Eurofins Lancaster Laboratories use only
Group # 1492817 Sample # 7550252-81
Instructions on reverse side correspond with circled numbers.

COC # 17079

1 Client Information				4 Matrix		5 Analyses Requested		For Lab Use Only	
Client: <u>IBM Atego</u> Acct. # <u>6911</u>						Preservation Code		SCR#	
Project Name: <u>3rd GTGw Supply</u> SOW # <u>93004.30</u>									
IBM PM: <u>R. Whalen</u> Project State: <u>NY</u>									
P.O. # <u>CAR93004.39</u> Sampler: <u>J. Ronis</u>									
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M									
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs									
OU: <u>Routine</u> (Endicott Non-Routine only)									
2 Sample Identification				3 Composite				6 Remarks	
		Collected		Grab					
		Date	Time						
Sample Identification				Soil	Water	Oil	Total # of Containers		
<u>00534140739P</u>		<u>7/31/14</u>	<u>934</u>	☒	☒	☐	<u>6</u>		
<u>00399140739P</u>		<u>7/31/14</u>	<u>952</u>	☐	☐	☐	<u>1</u>		
<u>00529140739P</u>		<u>7/31/14</u>	<u>1038</u>	☐	☐	☐	<u>1</u>		
<u>00521140739P</u>		<u>7/31/14</u>	<u>1040</u>	☐	☐	☐	<u>1</u>		
<u>00522140739P</u>		<u>7/31/14</u>	<u>1056</u>	☐	☐	☐	<u>1</u>		
<u>00364140739P</u>		<u>7/31/14</u>	<u>1116</u>	☐	☐	☐	<u>1</u>		
<u>00365140739P</u>		<u>7/31/14</u>	<u>1127</u>	☐	☐	☐	<u>1</u>		
<u>00378140739P</u>		<u>7/31/14</u>	<u>1144</u>	☐	☐	☐	<u>1</u>		
<u>00379140739P</u>		<u>7/31/14</u>	<u>1200</u>	☐	☐	☐	<u>1</u>		
<u>00606140739P</u>		<u>7/31/14</u>	<u>1348</u>	☐	☐	☐	<u>1</u>		
7 Turnaround Time Requested (TAT) (please circle)				8 Data Package Options (please circle if required)		9			
(Standard) Rush				Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A		Date results are needed: <u>10/1/14</u>			
Date results are needed: <u>10/1/14</u>				Type III (Reduced NJ) MA MCP NY ASP B		Rush results requested by (please circle) E-mail Phone			
E-mail: _____ Phone: _____				Type VI (Raw Data Only) CT RCP		E-mail: _____ Phone: _____			
SDG Complete? Yes ☐ No ☒				Site-specific QC (MS/MSD/Dup)? Yes ☐ No ☒		Temperature upon receipt <u>14</u> °C			
				(If yes, indicate QC sample and submit triplicate volume.)					

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Acct. # 6911

For Eurofins Lancaster Laboratories use only
Group # 1493348 Sample # 7552637-56
Instructions on reverse side correspond with circled numbers.

COC # 17080

1 Client Information			4 Matrix			5 Analyses Requested			For Lab Use Only		
Client: IBM Oswego			Matrix: ☐ Sediment ☒ Ground ☐ Surface			Analyses Requested: Preservation Code			SCR#		
Project Name: 3rd GW Sampling			Potable ☐ NPDES ☐ Air ☐						Preservation Codes		
IBM PM: R. Whalen			Oil ☐						H = HCl T = Thiosulfate		
P.O.#: CAR 93004.09			Total # of Containers: 8360L Plus 13/1034						N = HNO ₃ B = NaOH		
Project State: NY									S = H ₂ SO ₄ O = Other		
Sampler: J. Ronis									Remarks		
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M											
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs											
OU: Routine (Endicott Non-Routine only)											
2 Sample Identification			3 Collected								
Date			Time								
Grab			Composite								
OTB 140731 JAR			7/31/14 1010						Trip Blank		
OCP 140731 JAR			7/31/14 1538								
OCP 140731 JAR			7/31/14 1538								
OTB 140731 JAR			7/31/14 6200						Trip Blank		
OCP 140731 P			7/31/14 7007								
OCP 140731 P			7/31/14 7200								
OCP 140731 W&D			7/31/14 7311						Fgmp Blank		
OCP 140731 P			7/31/14 7477								
OCP 140731 P			7/31/14 7559								
OCP 140731 P			7/31/14 8188								
7 Turnaround Time Requested (TAT) (please circle)			Relinquished by			Date			Time		
Standard			8/1/14			1400P			Received by		
Rush			Relinquished by			Date			Time		
(Rush TAT is subject to Lancaster Laboratories approval and surcharges.)			Relinquished by			Date			Time		
Date results are needed: 10 Days			Relinquished by			Date			Time		
Rush results requested by (please circle) E-mail Phone			Relinquished by			Date			Time		
E-mail: Phone:			Relinquished by			Date			Time		
8 Data Package Options (please circle if required)			Site-specific QC (MS/MSD/Dup)?			Temperature upon receipt			0.8 °C		
Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A			Yes			0.8 °C					
Type III (Reduced NJ) MA MCP NY ASP B			No								
Type VI (Raw Data Only) CT RCP			(If yes, indicate QC sample and submit triplicate volume.)								
SDG Complete? Yes No											

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Acct. # 6911

For Eurofins Lancaster Laboratories use only
Group # 1493348 Sample # 7552637-56
Instructions on reverse side correspond with circled numbers.

COC # 17082

1 Client Information			4 Matrix			5 Analyses Requested			For Lab Use Only		
Client: IBM Oswego			Matrix: ☐ Sediment ☒ Ground ☐ Surface			Analyses Requested: Preservation Code			SCR#		
Project Name: 3rd GW Sampling			Potable ☐ NPDES ☐ Air ☐						Preservation Codes		
IBM PM: R. Whalen			Oil ☐						H = HCl T = Thiosulfate		
P.O.#: CAR 93004.09			Total # of Containers: 8360L Plus 13/1034						N = HNO ₃ B = NaOH		
Project State: NY									S = H ₂ SO ₄ O = Other		
Sampler: J. Ronis									Remarks		
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M											
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs											
OU: Routine (Endicott Non-Routine only)											
2 Sample Identification			3 Collected								
Date			Time								
Grab			Composite								
OCP 140731 P			7/31/14 8477								
OCP 140731 P			7/31/14 8538								
OCP 140731 P			7/31/14 9113								
OCP 140731 P			7/31/14 9320								
OCP 140731 P			7/31/14 10009								
OCP 140731 P			7/31/14 9300								
OCP 140731 P			7/31/14 10039								
OCP 140731 P			7/31/14 1024								
OCP 140731 P			7/31/14 9413								
OCP 140731 P			7/31/14 1050								
7 Turnaround Time Requested (TAT) (please circle)			Relinquished by			Date			Time		
Standard			8/1/14			1400P			Received by		
Rush			Relinquished by			Date			Time		
(Rush TAT is subject to Lancaster Laboratories approval and surcharges.)			Relinquished by			Date			Time		
Date results are needed: 10 Days			Relinquished by			Date			Time		
Rush results requested by (please circle) E-mail Phone			Relinquished by			Date			Time		
E-mail: Phone:			Relinquished by			Date			Time		
8 Data Package Options (please circle if required)			Site-specific QC (MS/MSD/Dup)?			Temperature upon receipt			0.8 °C		
Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A			Yes			0.8 °C					
Type III (Reduced NJ) MA MCP NY ASP B			No								
Type VI (Raw Data Only) CT RCP			(If yes, indicate QC sample and submit triplicate volume.)								
SDG Complete? Yes No											

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Client Information				Matrix		Preservation Code												For Lab Use Only			
Client: <u>DM Crego</u>		Acct # <u>6911</u>		☐ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Water ☐ Oil ☐ Air	Total # of Containers <u>3 X</u>													SCR#	Preservation Codes H = HC T = Thiou sulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		
Project Name: <u>LHGT GW Supply</u>		SSOW # <u>93004.30</u>																Remarks			
IBM PM: <u>Kevin Whalen</u>		Project State: <u>NJ</u>																			
P.O. #: <u>CAR93004.39</u>		Shipper: <u>JToni's</u>																			
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M																					
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs																					
OU: <u>Pentre</u> (Endicott Non-Routine only)																					
Sample Identification		Collected		Grab	Composite																
		Date	Time																		
GTS14100067AR		10/6/14	1600	X		GW	3	X													Tap Blank
O0306141006			1639																		
O0374141006P			1649																		
O0363141006P			1703																		
O0373141006P			1713																		
O0363141006P			1724																		
OEG141006WLID			1747																		Egwp Blank
O0625141007P		10/7/14	0653																		
O0626141007P			703																		
O0355141007P			715																		
7 Turnaround Time Requested (TAT) (please circle) ☒ Standard ☐ Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharges.)				Relinquished by: <u>[Signature]</u>		Date: <u>10/8/14</u>	Time: <u>1800</u>	Received by:		Date:	Time:	9									
Data results are needed: <u>10 days</u>				Relinquished by:		Date:	Time:	Received by:		Date:	Time:										
Rush results requested by (please circle) E-mail Phone				Relinquished by:		Date:	Time:	Received by:		Date:	Time:										
E-mail: Phone:				Relinquished by:		Date:	Time:	Received by: <u>[Signature]</u>		Date: <u>10-9-14</u>	Time: <u>810</u>										
8 Data Package Options (please circle if required) Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A Type III (Reduced NJ) MA MCP NY ASP B Type VI (Raw Data Only) CT RCP				Site-specific QC (MS/MSD/Dup)? Yes ☐ No ☒				Temperature upon receipt: <u>22.1</u> °C													
SDG Complete? Yes ☐ No ☒				(If yes, indicate QC sample and submit triplicate volume.)																	

*** NYSDEC B**

Client Information				Analyses Requested		For Lab Use Only					
Client IBM Oswego		Project # 611		Preservation Code		SCR#					
Project Manager HKT Gw Supply		SSOW # 93004.30				Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other					
IBM PM Kevin Whalen		Project State NY				Remarks					
P.O.# CAR93004.09		Sample Name JT Ronis									
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M											
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs (Endicott Non-Routine only)											
OU: Routine											
Sample Identification		Collected		Grab	Composite	Soil	Water	Oil	Total # of Containers	5	6
		Date	Time								
00352141007P		10/9/14	733	X							
00391211007P			740								
00308141007P			754								
00133141007P			809								
00309141007P			806								
00313141007P			838								
00631141007P			853								
00622141007P			901								
00611141007P			939								
00619141007P			951								
7 Turnaround Time Requested (TAT) (please circle) Standard Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharges.)				Relinquished by		Date	Time	Received by	Date	Time	9
Date results are needed: 10/20/14				Relinquished by		Date	Time	Received by	Date	Time	
Rush results requested by (please circle) E-mail Phone				Relinquished by		Date	Time	Received by	Date	Time	
E-mail: Phone:				Relinquished by		Date	Time	Received by	Date	Time	
8 Data Package Options (please circle if required) Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A Type III (Reduced NJ) MA MCP NY ASP B Type VI (Raw Data Only) CT RCP				Site-specific QC (MS/MSD/Dup)? Yes No		Temperature upon receipt		Date		Time	
SDG Complete? Yes (No)				(If yes, indicate QC sample and submit triplicate volume.)		10/9/14 810		10/9/14 810			

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Acct. # 0911 For Eurofins Lancaster Laboratories use only
Group # 1509710 Sample # 763082655
Instructions on reverse side correspond with circled numbers.

COC # 17222

1 Client Information				4 Matrix		5 Analyses Requested		For Lab Use Only																																															
Client: <u>IBM Oswego</u> Project Name: <u>Hot Spot Gw Supply</u> IBM ID: <u>Kevin Whalen</u> P.O. # <u>CAR93004 29</u> Account # <u>0911</u> SSOW # <u>93004 30</u> Project State: <u>NY</u> Supplier: <u>V7 Conis</u>				☐ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air		Preservation Code H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		SCR# Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																															
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M ☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs OU: <u>Routine</u> (Endicott Non-Routine only)				☐ Composite ☐ Soil ☐ Water ☐ Oil		Total # of Containers <u>13/13</u>		Remarks																																															
2 Sample Identification <table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Grab</th> <th>Composite</th> </tr> </thead> <tbody> <tr><td>07/14/10</td><td>10:07</td><td>1</td><td>X</td></tr> <tr><td>07/14/10</td><td>10:37</td><td>2</td><td></td></tr> <tr><td>07/14/10</td><td>10:49</td><td>3</td><td></td></tr> <tr><td>07/14/10</td><td>11:01</td><td>4</td><td></td></tr> <tr><td>07/14/10</td><td>11:11</td><td>5</td><td></td></tr> <tr><td>07/14/10</td><td>11:23</td><td>6</td><td></td></tr> <tr><td>07/14/10</td><td>11:35</td><td>7</td><td></td></tr> <tr><td>07/14/10</td><td>11:50</td><td>8</td><td></td></tr> <tr><td>07/14/10</td><td>12:14</td><td>9</td><td></td></tr> <tr><td>07/14/10</td><td>12:47</td><td>10</td><td></td></tr> <tr><td>07/14/10</td><td>13:00</td><td>11</td><td></td></tr> </tbody> </table>				Date	Time	Grab	Composite	07/14/10	10:07	1	X	07/14/10	10:37	2		07/14/10	10:49	3		07/14/10	11:01	4		07/14/10	11:11	5		07/14/10	11:23	6		07/14/10	11:35	7		07/14/10	11:50	8		07/14/10	12:14	9		07/14/10	12:47	10		07/14/10	13:00	11		Date: <u>10/8/14</u> Time: <u>1800</u> Received by: <u>[Signature]</u>		Date: <u>10-9-14</u> Time: <u>810</u> Received by: <u>[Signature]</u>	
Date	Time	Grab	Composite																																																				
07/14/10	10:07	1	X																																																				
07/14/10	10:37	2																																																					
07/14/10	10:49	3																																																					
07/14/10	11:01	4																																																					
07/14/10	11:11	5																																																					
07/14/10	11:23	6																																																					
07/14/10	11:35	7																																																					
07/14/10	11:50	8																																																					
07/14/10	12:14	9																																																					
07/14/10	12:47	10																																																					
07/14/10	13:00	11																																																					
7 Turnaround Time Requested (TAT) (please circle) (Standard) Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharges.) Date results are needed: <u>10/20/14</u> Rush results requested by (please circle) E-mail Phone E-mail: _____ Phone: _____				Site-specific QC (MS/MSD/Dup) Yes No (If yes, indicate QC sample and submit triplicate volume.)		Temperature upon receipt <u>27.1</u> °C <u>1094</u> 7052.02																																																	
8 Data Package Options (please circle if required) Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A Type III (Reduced NJ) MA MCP NY ASP B Type VI (Raw Data Only) CT RCP SDG Complete? Yes ☐ No ☒				Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.		Issued by Dept. 40 Management 1094 7052.02																																																	

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Acct. # 0911 For Eurofins Lancaster Laboratories use only
Group # 1509710 Sample # 7630858-87
Instructions on reverse side correspond with circled numbers.

COC # 17220

1 Client Information				4 Matrix		5 Analyses Requested		For Lab Use Only																																															
Client: <u>IBM Oswego</u> Project Name: <u>Hot Spot Gw Supply</u> IBM ID: <u>Kevin Whalen</u> P.O. # <u>CAR93004 29</u> Account # <u>0911</u> SSOW # <u>93004 30</u> Project State: <u>NY</u> Supplier: <u>V7 Conis</u>				☐ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Air		Preservation Code H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		SCR# Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																															
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M ☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs OU: <u>Routine</u> (Endicott Non-Routine only)				☐ Composite ☐ Soil ☐ Water ☐ Oil		Total # of Containers <u>13/13</u>		Remarks																																															
2 Sample Identification <table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Grab</th> <th>Composite</th> </tr> </thead> <tbody> <tr><td>07/14/10</td><td>10:07</td><td>1</td><td>X</td></tr> <tr><td>07/14/10</td><td>10:30</td><td>2</td><td></td></tr> <tr><td>07/14/10</td><td>13:35</td><td>3</td><td></td></tr> <tr><td>07/14/10</td><td>13:34</td><td>4</td><td></td></tr> <tr><td>07/14/10</td><td>13:47</td><td>5</td><td></td></tr> <tr><td>07/14/10</td><td>14:01</td><td>6</td><td></td></tr> <tr><td>07/14/10</td><td>14:18</td><td>7</td><td></td></tr> <tr><td>07/14/10</td><td>14:34</td><td>8</td><td></td></tr> <tr><td>07/14/10</td><td>14:50</td><td>9</td><td></td></tr> <tr><td>07/14/10</td><td>15:03</td><td>10</td><td></td></tr> <tr><td>07/14/10</td><td>15:17</td><td>11</td><td></td></tr> </tbody> </table>				Date	Time	Grab	Composite	07/14/10	10:07	1	X	07/14/10	10:30	2		07/14/10	13:35	3		07/14/10	13:34	4		07/14/10	13:47	5		07/14/10	14:01	6		07/14/10	14:18	7		07/14/10	14:34	8		07/14/10	14:50	9		07/14/10	15:03	10		07/14/10	15:17	11		Date: <u>10/8/14</u> Time: <u>1800</u> Received by: <u>[Signature]</u>		Date: <u>10-9-14</u> Time: <u>810</u> Received by: <u>[Signature]</u>	
Date	Time	Grab	Composite																																																				
07/14/10	10:07	1	X																																																				
07/14/10	10:30	2																																																					
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07/14/10	14:01	6																																																					
07/14/10	14:18	7																																																					
07/14/10	14:34	8																																																					
07/14/10	14:50	9																																																					
07/14/10	15:03	10																																																					
07/14/10	15:17	11																																																					
7 Turnaround Time Requested (TAT) (please circle) (Standard) Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharges.) Date results are needed: <u>10/20/14</u> Rush results requested by (please circle) E-mail Phone E-mail: _____ Phone: _____				Site-specific QC (MS/MSD/Dup) Yes No (If yes, indicate QC sample and submit triplicate volume.)		Temperature upon receipt <u>27.1</u> °C <u>1094</u> 7052.02																																																	
8 Data Package Options (please circle if required) Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A Type III (Reduced NJ) MA MCP NY ASP B Type VI (Raw Data Only) CT RCP SDG Complete? Yes ☐ No ☒				Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.		Issued by Dept. 40 Management 1094 7052.02																																																	

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Acc't. # 6911 For Eurofins Lancaster Laboratories use only
Group # 1509712 Sample # 1630858-87
Instructions on reverse side correspond with circled numbers.

COC # 17224

1 Client Information			4 Matrix			5 Analyses Requested			For Lab Use Only		
Client: <u>IBM Owego</u> Acct #: <u>6911</u>			Matrix: ☐ Sediment ☒ Ground ☐ Surface			Analyses Requested: <u>H</u>			SCR#: <u>13/1334</u>		
Project Name: <u>HWGW Sample</u> SSOW #: <u>93004.30</u>			Potable: ☐ NPDES: ☐ Air: ☐			Preservation Code: <u>H</u>			Preservation Codes: H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		
IBM PM: <u>Kevin Whalen</u> Project State: <u>NY</u>			Oil: ☐						Remarks:		
P.O. #: <u>CA93004.09</u> Sampler: <u>JT Ronis</u>			Total # of Containers: <u>13/1334</u>								
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M											
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs											
OU: <u>Routine</u> (Endicott Non-Routine only)											
2 Sample Identification			3 Collected								
Date			Time			Grab					
00155141007P			10/7/14			1540			X		
00386141007P			1550								
00631141007P			1637								
0012141008W ID			10/8/14			747					
00178141008P			801								
00543141008P			836								
00540141008P			843								
00541141008P			857								
00540141008P			914								
00317141008P			949								
7 Turnaround Time Requested (TAT) (please circle)			Relinquished by			Date			Time		
Standard			10/8/14			1800			Received by		
Rush			Date			Time			Date		
(Rush TAT is subject to Lancaster Laboratories approval and surcharges.)			Date			Time			Date		
Date results are needed: <u>10 Days</u>			Date			Time			Date		
Rush results requested by (please circle) E-mail Phone			Date			Time			Date		
E-mail: _____ Phone: _____			Date			Time			Date		
8 Data Package Options (please circle if required)			Site-specific QC (MS/MSD/Dup)?			Yes			Temperature upon receipt <u>0.7</u> °C		
Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A			Yes			No					
Type III (Reduced NJ) MA MCP NY ASP B			(If yes, indicate QC sample and submit triplicate volume.)								
Type VI (Raw Data Only) CT RCP											
SDG Complete? Yes ☐ No ☒											

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Acc't. # 6911 For Eurofins Lancaster Laboratories use only
Group # 1509712 Sample # 1630858-87
Instructions on reverse side correspond with circled numbers.

COC # 17226

1 Client Information			4 Matrix			5 Analyses Requested			For Lab Use Only		
Client: <u>IBM Owego</u> Acct #: <u>6911</u>			Matrix: ☐ Sediment ☒ Ground ☐ Surface			Analyses Requested: <u>H</u>			SCR#: <u>13/1334</u>		
Project Name: <u>HWGW Sample</u> SSOW #: <u>93004.30</u>			Potable: ☐ NPDES: ☐ Air: ☐			Preservation Code: <u>H</u>			Preservation Codes: H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		
IBM PM: <u>Kevin Whalen</u> Project State: <u>NY</u>			Oil: ☐						Remarks:		
P.O. #: <u>CA93004.09</u> Sampler: <u>JT Ronis</u>			Total # of Containers: <u>13/1334</u>								
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M											
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs											
OU: <u>Routine</u> (Endicott Non-Routine only)											
2 Sample Identification			3 Collected								
Date			Time			Grab					
00160141008P			10/8/14			1000			X		
00318141008P			1033								
00322141008P			1036								
00319141008P			1050								
00333141008P			1104								
00101141008P			1131								
00314141008P			1131								
00614141008P			1147								
00622141008P			1244								
00628141008P			1253								
7 Turnaround Time Requested (TAT) (please circle)			Relinquished by			Date			Time		
Standard			10/8/14			1800			Received by		
Rush			Date			Time			Date		
(Rush TAT is subject to Lancaster Laboratories approval and surcharges.)			Date			Time			Date		
Date results are needed: <u>10 Days</u>			Date			Time			Date		
Rush results requested by (please circle) E-mail Phone			Date			Time			Date		
E-mail: _____ Phone: _____			Date			Time			Date		
8 Data Package Options (please circle if required)			Site-specific QC (MS/MSD/Dup)?			Yes			Temperature upon receipt <u>0.7</u> °C		
Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A			Yes			No					
Type III (Reduced NJ) MA MCP NY ASP B			(If yes, indicate QC sample and submit triplicate volume.)								
Type VI (Raw Data Only) CT RCP											
SDG Complete? Yes ☐ No ☒											

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Acct. # 6911

For Eurofins Lancaster Laboratories use only
Group # 1510347 Sample # 7634052-80
Instructions on reverse side correspond with circled numbers.

COC # 17225

1 Client Information			4 Matrix			5 Analyses Requested			For Lab Use Only	
Client: IBM Owego			Matrix: ☐ Sediment ☒ Ground ☐ Surface			Analyses Requested: H			SCR#	
Project Name: H&M Gw Sampling			Ground: ☐ Potable ☐ NPDES ☐ Air			Preservation Code			Preservation Codes	
SSOW #: 93004.30			Water: ☐ Oil: ☐ Total # of Containers: 3			H = HCl T = Thiosulfate			N = HNO ₃ B = NaOH	
Project State: NY			Composites: ☐ Soil ☐ Water ☐ Oil			S = H ₂ SO ₄ O = Other			Remarks	
P.O. # CAR 93004.30			Grab: ☐ Composite: ☐			Date: 10/10/14			Time: 14:00	
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
OU: Routine (Endicott Non-Routine only)			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Sample Identification			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 10:15			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 13:08			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 7:19			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 7:30			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 7:44			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 7:56			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 8:10			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 8:19			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 8:37			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 9:07			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Turnaround Time Requested (TAT) (please circle)			Site-specific QC (MS/MSD/Dup)?			Temperature upon receipt			14 °C	
Standard Rush			Yes No			Received by: [Signature]			Date: 10/14/14	
(Rush TAT is subject to Lancaster Laboratories approval and surcharges.)			(If yes, indicate QC sample and submit triplicate volume.)			Received by: [Signature]			Date: 10/14/14	
Date results are needed: 10 Days			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Rush results requested by (please circle) E-mail Phone			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
E-mail: Phone:			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Data Package Options (please circle if required)			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Type III (Reduced NJ) MA MCP NY ASP B			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Type VI (Raw Data Only) CT RCP			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
SDG Complete? Yes No			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	

NYSDEC B

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Acct. # 6911

For Eurofins Lancaster Laboratories use only
Group # 1510347 Sample # 7634052-80
Instructions on reverse side correspond with circled numbers.

COC # 17228

1 Client Information			4 Matrix			5 Analyses Requested			For Lab Use Only	
Client: IBM Owego			Matrix: ☐ Sediment ☒ Ground ☐ Surface			Analyses Requested: H			SCR#	
Project Name: H&M Gw Sampling			Ground: ☐ Potable ☐ NPDES ☐ Air			Preservation Code			Preservation Codes	
SSOW #: 93004.30			Water: ☐ Oil: ☐ Total # of Containers: 3			H = HCl T = Thiosulfate			N = HNO ₃ B = NaOH	
Project State: NY			Composites: ☐ Soil ☐ Water ☐ Oil			S = H ₂ SO ₄ O = Other			Remarks	
P.O. # CAR 93004.30			Grab: ☐ Composite: ☐			Date: 10/10/14			Time: 14:00	
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
OU: Routine (Endicott Non-Routine only)			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Sample Identification			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 9:19			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 9:33			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 9:43			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 9:58			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 10:10			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 10:33			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 10:46			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 11:07			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 11:18			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Date: 10/10/14 Time: 11:36			Total # of Containers: 3			Received by: [Signature]			Date: 10/14/14	
Turnaround Time Requested (TAT) (please circle)			Site-specific QC (MS/MSD/Dup)?			Temperature upon receipt			14 °C	
Standard Rush			Yes No			Received by: [Signature]			Date: 10/14/14	
(Rush TAT is subject to Lancaster Laboratories approval and surcharges.)			(If yes, indicate QC sample and submit triplicate volume.)			Received by: [Signature]			Date: 10/14/14	
Date results are needed: 10 Days			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Rush results requested by (please circle) E-mail Phone			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
E-mail: Phone:			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Data Package Options (please circle if required)			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Type III (Reduced NJ) MA MCP NY ASP B			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
Type VI (Raw Data Only) CT RCP			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	
SDG Complete? Yes No			Received by: [Signature]			Received by: [Signature]			Date: 10/14/14	

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1 Client Information			4 Matrix			5 Analyses Requested										6 For Lab Use Only																															
Client IBM Owego Project Name# WROH GW Sample IBM PM Kevin Wahlen P.O.# CR 93004, 29			Acct# 6911 SSOW# 93004, 29 Project State NY Sample J Ronis			☐ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Oil ☐ Air			Preservation Code H = HCl N = HNO₃ S = H₂SO₄ T = Thiosulfate B = NaOH O = Other										SCR# Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																												
Check One: ☒ Routine Lab GW ☐ Routine GTF O&M ☐ Non-Routine Investigation ☐ Non-Routine Upgrades/Installs OU: <u>Routine</u> (Endicott Non-Routine only)			Composite ☐ Soil ☐ Water ☐ Oil			Total # of Containers 10/10/14 1400										Remarks																															
2 Sample Identification			3 Collected																																												
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Grab</th> </tr> </thead> <tbody> <tr><td>10/14/14</td><td>1150</td><td>X</td></tr> <tr><td>10/14/14</td><td>1400</td><td>X</td></tr> <tr><td>10/14/14</td><td>834</td><td></td></tr> <tr><td>10/14/14</td><td>911</td><td></td></tr> <tr><td>10/14/14</td><td>9300</td><td></td></tr> <tr><td>10/14/14</td><td>10023</td><td></td></tr> <tr><td>10/14/14</td><td>10419</td><td></td></tr> <tr><td>10/14/14</td><td>1104</td><td></td></tr> <tr><td>10/14/14</td><td>1134</td><td></td></tr> </tbody> </table>			Date	Time	Grab	10/14/14	1150	X	10/14/14	1400	X	10/14/14	834		10/14/14	911		10/14/14	9300		10/14/14	10023		10/14/14	10419		10/14/14	1104		10/14/14	1134																
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10/14/14	1150	X																																													
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7 Turnaround Time Requested (TAT) (please circle) ☒ Standard ☐ Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharges.) Date results are needed: <u>10/15/14</u> Rush results requested by (please circle) E-mail Phone E-mail: Phone:			Relinquished by <u>[Signature]</u> Date <u>10/10/14</u> Time <u>1400</u> Relinquished by Date Time Relinquished by Date Time Relinquished by Date Time			Received by Date Time Received by Date Time Received by Date Time Received by <u>[Signature]</u> Date <u>10/11/14</u> Time <u>10:30</u>										8 Data Package Options (please circle if required) Type I (Validation/NJ Reg) TX TRRP-13 NY ASP A Type II (Reduced NJ) MA MCP NY ASP B Type VI (Raw Data Only) CT RCP SDG Complete? Yes ☐ No ☒																															
			Site-specific QC (MS/MSD/Dup)? Yes ☐ No ☒			Temperature upon receipt <u>1.4</u> °C																																									

~~X~~ NYS DEC 'B

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APPENDIX F

**GROUNDWATER ANALYTICAL CHEMISTRY DATA
FOR EXTRACTION AND MONITORING WELLS
January 1, 2014 – December 31, 2014**

Groundwater Analytical Chemistry Data

Owego, New York

January 1, 2014 - December 31, 2014

Sample Location		101	101	106	106	106	106
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		04/10/2014	10/08/2014	01/08/2014	04/09/2014	07/28/2014	10/07/2014
Laboratory Sample I.D.		7428869	7630883	7331557	7427533	7548266	7630854
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	7.03	7.47	8.28	7.55	7.27	7.23
SPECIFIC CONDUCTANCE	umhos/cm	290	280	411	407	373	404
TEMPERATURE	C	8.1	10.2	3.8	6.7	16.4	14.8
TURBIDITY	NTU	1.72	3.72	0.087	1.28	2.39	4.73
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	0.3 J	0.6	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		107A	107A	107A	107A	110	110
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		01/08/2014	04/09/2014	07/28/2014	10/07/2014	01/08/2014	07/28/2014
Laboratory Sample I.D.		7331558	7427532	7548264	7630853	7331559	7548265
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	8.37	7.77	7.52	7.35	7.49	6.73
SPECIFIC CONDUCTANCE	umhos/cm	473	306	265	277	3740	3740
TEMPERATURE	C	7.4	10.5	12.3	11.3	9.4	14.6
TURBIDITY	NTU	0.76	2.18	6.02	4.75	0.62	5.92
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.2 J	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Groundwater Analytical Chemistry Data
Owego, New York
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Sample Location	120	120	124	124	125	125	
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	
Sample Date	04/09/2014	10/07/2014	01/07/2014	07/28/2014	01/07/2014	07/28/2014	
Laboratory Sample I.D.	7427526	7630866	7331548	7548267	7331549	7548249	
Sample Comment Codes	P	P	P	P	P	P	
Parameter	Units						
Indicator Parameters							
PH	SU	7.12	7.07	7.44	6.24	6.89	7.05
SPECIFIC CONDUCTANCE	umhos/cm	900	870	750	1190	7090	7900
TEMPERATURE	C	11.1	12.4	8.1	13.2	11.1	17.5
TURBIDITY	NTU	1.84	4.17	1.16	6.82	0.79	1.4
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	2.3	2.4	0.1 J	0.5 J	1.3	3.2
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	2.4	2.3	ND@0.5	ND@0.5	16	25
1,1-DICHLOROETHENE	ug/L	0.2 J	0.3 J	ND@0.5	ND@0.5	0.4 J	1.1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.4 J
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	1.3	2.9
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.2 J	0.3 J
TRICHLOROETHENE	ug/L	0.6	0.6	0.9	0.2 J	5.2	9.7
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.7

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Sample Location	127	127	128	129	129	132	
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	
Sample Date	01/08/2014	07/28/2014	07/28/2014	01/07/2014	07/28/2014	07/28/2014	
Laboratory Sample I.D.	7331561	7548248	7548269	7331556	7548261	7548260	
Sample Comment Codes	P	P	P	P	P	P	
Parameter	Units						
Indicator Parameters							
PH	SU	6.78	7.04	6.2	7.43	8.84	7
SPECIFIC CONDUCTANCE	umhos/cm	2730	6610	7610	31390	1840	502
TEMPERATURE	C	9.1	18	16.6	6.2	21.6	15.6
TURBIDITY	NTU	1.05	4.3	1.04	0.65	2.05	1.11
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	65	64	900	0.1 J	0.4 J	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	62	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	6.7	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	4.1	3.2	180	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	5.1	5.5	550	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	2.1 J	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	0.1 J	0.1 J	ND@5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	1.1	1.5	430	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	0.3 J	0.3 J	8.8	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	72	77	270	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	24	ND@0.5	ND@0.5	ND@0.5

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Sample Location	133	133	134	134	140R	146
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	04/10/2014	10/07/2014	01/07/2014	07/28/2014	07/29/2014	01/08/2014
Laboratory Sample I.D.	7427539	7630839	7331555	7548259	7550263	7332755
Sample Comment Codes	P	P	P	P	P	P

Parameter	Units						
Indicator Parameters							
PH	SU	6.57	6.83	7.78	7.38	6.51	NA
SPECIFIC CONDUCTANCE	umhos/cm	7250	7770	364	348	1910	NA
TEMPERATURE	C	13.2	14.1	16	17.5	13.1	NA
TURBIDITY	NTU	1.73	5.78	1.23	0.93	0.88	NA
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	160	99	ND@0.5	ND@0.5	200	0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	6.2	4.2	ND@0.5	ND@0.5	21	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	100	100	0.2 J	0.1 J	690	1.4
1,1-DICHLOROETHENE	ug/L	23	17	ND@0.5	ND@0.5	39	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	1.7	1.4	ND@0.5	ND@0.5	9.7	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	0.3 J	0.3 J	ND@0.5	ND@0.5	ND@2.5	ND@0.5
CHLOROETHANE	ug/L	0.2 J	0.2 J	ND@0.5	ND@0.5	4.1	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	0.2 J	0.1 J	ND@0.5	ND@0.5	ND@2.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	0.2 J	0.1 J	ND@0.5	ND@0.5	14	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@0.5
TRICHLOROETHENE	ug/L	4.7	2.6	0.2 J	ND@0.5	3.4	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	8.1	ND@0.5

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Sample Location	146	148	148	149	149	157
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	07/31/2014	04/09/2014	10/07/2014	04/09/2014	10/07/2014	01/09/2014
Laboratory Sample I.D.	7552847	7427524	7630867	7427523	7630865	7332765
Sample Comment Codes	P	P	P	P	P	P

Parameter	Units						
Indicator Parameters							
PH	SU	6.77	6.84	6.46	7.22	7.38	7.09
SPECIFIC CONDUCTANCE	umhos/cm	2920	900	720	850	800	447
TEMPERATURE	C	12.3	10.5	13.7	9.8	12.1	7
TURBIDITY	NTU	18.4	1.36	3.75	1.42	3.64	1.23
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	0.2 J	190	180	3.1	4.6	0.3 J
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	3.4	3.2	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	1.2	1.1	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	0.7	2.2	2.3	12	18	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	17	18	3.5	5.9	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	0.1 J	0.1 J	ND@0.5	0.1 J	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	0.2 J	0.2 J	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	0.8	0.8	11	23	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	3	3.3	15	22	0.2 J
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		157	158	160	160	162	162
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		07/31/2014	10/07/2014	04/09/2014	10/08/2014	04/09/2014	10/09/2014
Laboratory Sample I.D.		7552846	7630868	7427567	7630878	7427531	7634062
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.94	6.94	7.77	8.49	7.45	7.06
SPECIFIC CONDUCTANCE	umhos/cm	1000	623	527	437	406	362
TEMPERATURE	C	12.6	12.5	8	13.2	9.8	15
TURBIDITY	NTU	1.19	4.39	1.4	3.85	1.41	4.31
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	1.3	0.1 J	41	47	11	27
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	0.3 J
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	0.2 J	ND@0.5	2.8	4.6	0.8	2.7
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	10	14	2.8	8.7
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	18	27	5	18
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	0.2 J	0.3 J	0.3 J	0.3 J
TRICHLOROETHENE	ug/L	0.9	ND@0.5	150	180	66	100
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@1	ND@1	ND@0.5	ND@0.5

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Sample Location		163	165	165	166	166	167
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		10/09/2014	04/09/2014	10/09/2014	04/09/2014	10/09/2014	04/09/2014
Laboratory Sample I.D.		7634061	7427530	7634064	7427528	7634056	7427529
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.64	7.37	6.79	7.55	7.27	6.86
SPECIFIC CONDUCTANCE	umhos/cm	370	268	307	477	450	284
TEMPERATURE	C	16.4	5.4	11.9	10.7	10.7	8.3
TURBIDITY	NTU	3.93	1.39	3.89	1	3.68	1.08
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	24	42	0.4 J	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	0.2 J	0.6	1.1	0.4 J	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	2.2	12	1.7	2	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	4.2	18	0.3 J	0.3 J	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	1.3	1.8	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	7.2	24	7.5	9.2	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	0.1 J	0.2 J	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	50	170	2.3	1.3	4.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	0.7	0.4 J	1.2	ND@0.5

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Sample Location		167	178	178	179	179	181
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		10/09/2014	04/10/2014	10/08/2014	04/10/2014	10/08/2014	10/07/2014
Laboratory Sample I.D.		7634057	7428870	7630872	7428871	7634053	7630863
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.38	6.23	6.23	7.28	6.6	7.25
SPECIFIC CONDUCTANCE	umhos/cm	257	1810	1470	505	363	545
TEMPERATURE	C	11.5	8.6	14	7.2	11.3	12.2
TURBIDITY	NTU	4.16	1.07	3.91	1.15	3.35	4.9
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	29	30	23	25	2.1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	0.7	0.7	2.9	2.9	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	14	17	2.6	2.8	0.1 J
1,1-DICHLOROETHENE	ug/L	ND@0.5	3.5	3.9	6.6	6.8	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	0.3 J	0.3 J	0.2 J	0.2 J	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	6.1	6.4	9.8	11	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	0.5 J	0.5 J	0.2 J	0.1 J	ND@0.5
TRICHLOROETHENE	ug/L	5.4	77	82	68	73	0.2 J
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		183	183	185	185	186	186
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		04/09/2014	10/07/2014	04/11/2014	10/10/2014	04/11/2014	10/10/2014
Laboratory Sample I.D.		7427570	7630862	7428878	7634077	7428877	7634078
Sample Comment Codes		P	P				
Parameter	Units						
Indicator Parameters							
PH	SU	6.87	7.07	7.06	7.04	6.8	6.96
SPECIFIC CONDUCTANCE	umhos/cm	536	660	1070	910	1680	1450
TEMPERATURE	C	9.3	11.6	11	11	11.3	12.3
TURBIDITY	NTU	1.38	4.27	1.59	27.4	2.2	9.02
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	11	8.6	3.3	2.9	10	8.9
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@1	ND@0.5	5.2	4.6	31	29
1,1,2-TRICHLOROETHANE	ug/L	ND@1	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	1.1	1.1	1.9	1.8	5.9	5.7
1,1-DICHLOROETHENE	ug/L	0.4 J	0.4 J	0.4 J	0.4 J	1.3	1.2
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@1	ND@0.5	1.1	1	3	2.6
1,2-DICHLOROETHANE (EDC)	ug/L	ND@1	ND@0.5	0.2 J	0.2 J	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@1	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	1.7	1.4	0.2 J	0.2 J	0.4 J	0.4 J
CIS-1,2-DICHLOROETHENE	ug/L	57	51	2	2.5	13	12
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@1	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@1	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@1	ND@0.5	ND@0.5	ND@0.5	0.1 J	0.1 J
TRICHLOROETHENE	ug/L	200	170	46	45	120	120
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@1	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	0.2 J	0.2 J	0.1 J	0.1 J	ND@0.5	ND@0.5

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Sample Location	194	194	306	308	308	309
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	04/11/2014	10/09/2014	10/06/2014	04/10/2014	10/07/2014	04/10/2014
Laboratory Sample I.D.	7428876	7634073	7630827	7427537	7630838	7427540
Sample Comment Codes				P	P	P
Parameter	Units					
Indicator Parameters						
PH	SU	7.54	7.15	7.48	6.85	6.61
SPECIFIC CONDUCTANCE	umhos/cm	870	670	1260	2140	2400
TEMPERATURE	C	11.8	11.6	14.7	10.4	13.9
TURBIDITY	NTU	277	179	8.26	1.56	5.41
Volatile Organics						
1,1,1-TRICHLOROETHANE	ug/L	2.5	1.9	ND@0.5	45	67
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	1.1	1.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	6.3	8	ND@0.5	24	50
1,1-DICHLOROETHENE	ug/L	3.5	1.6	ND@0.5	3.9	7.4
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.4 J	0.7
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
CHLOROETHANE	ug/L	0.7	ND@0.5	ND@0.5	ND@0.5	0.1 J
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	0.4 J	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	0.2 J	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	ND@0.5	0.3 J	0.3 J	0.4 J
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location	309	313	314	316	316	317
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	10/07/2014	10/07/2014	10/08/2014	04/09/2014	10/09/2014	04/09/2014
Laboratory Sample I.D.	7630840	7630841	7630884	7427527	7634054	7427568
Sample Comment Codes	P	P	P	P	P	P
Parameter	Units					
Indicator Parameters						
PH	SU	5.99	5.85	7.19	7.69	7.3
SPECIFIC CONDUCTANCE	umhos/cm	9400	7710	202	405	385
TEMPERATURE	C	12.2	13	9.9	10.4	10.6
TURBIDITY	NTU	4.99	4.8	3.82	1.21	4.35
Volatile Organics						
1,1,1-TRICHLOROETHANE	ug/L	2.7	5.2	0.3 J	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	1.4	0.3 J	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	0.5 J	0.2 J	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	0.1 J	0.1 J	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	0.7	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	11	16	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		317	318	318	318	318	319
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		10/08/2014	01/09/2014	04/10/2014	07/29/2014	10/08/2014	01/09/2014
Laboratory Sample I.D.		7630877	7332768	7427544	7550258	7630879	7332770
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	10.67	6.87	6.75	7.25	6.99	7.06
SPECIFIC CONDUCTANCE	umhos/cm	331	452	496	248	250	464
TEMPERATURE	C	14.6	8.9	9.1	11.4	10.3	8.2
TURBIDITY	NTU	3.77	1.48	1.85	2.76	4.83	0.95
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	37	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	0.4 J	3	4.7	3.8	3.9	0.7
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	3.7	3.3	3.8	3.5	3.5	3.5
1,1-DICHLOROETHENE	ug/L	13	0.8	1	0.8	0.8	0.3 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	10	11	11	9.7	2.2
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	22	83	85	73	71	10
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	0.5 J	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	0.3 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	150	1.3	1.5	1.4	1.2	1.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	0.3 J	0.3 J	0.3 J	0.2 J	0.8

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Sample Location		319	319	319	321	321	322
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		04/10/2014	07/29/2014	10/08/2014	04/10/2014	10/07/2014	01/09/2014
Laboratory Sample I.D.		7428867	7550260	7630881	7427535	7630837	7332769
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	7.31	7.07	7.5	6.59	6.02	7.47
SPECIFIC CONDUCTANCE	umhos/cm	417	433	379	1230	1360	357
TEMPERATURE	C	8.2	11	10.9	11.3	12.2	8.7
TURBIDITY	NTU	0.97	7.04	3.79	1.68	4.82	0.71
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	2.5	3.1	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	0.7	0.9	1	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	1.7	1	1.3	1.2	1.5	0.2 J
1,1-DICHLOROETHENE	ug/L	0.3 J	0.2 J	0.2 J	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	2.2	1.2	1.4	ND@0.5	ND@0.5	0.7
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	12	6.7	9.3	ND@0.5	ND@0.5	0.2 J
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	1.8	2.5	2.7	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	0.9	0.1 J	0.4 J	ND@0.5	ND@0.5	ND@0.5

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Sample Location		322	322	322	323	323	323
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		04/10/2014	07/29/2014	10/08/2014	01/09/2014	04/10/2014	07/29/2014
Laboratory Sample I.D.		7427545	7550259	7630880	7332771	7428868	7550261
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.98	7.08	6.8	5.94	6.04	5.93
SPECIFIC CONDUCTANCE	umhos/cm	378	354	355	285	284	242
TEMPERATURE	C	9.1	11.4	11.5	8.2	8.7	10.9
TURBIDITY	NTU	1.47	3.98	4.58	0.74	1.4	2.04
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	0.2 J	0.5 J	0.3 J	0.9
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	0.1 J	0.4 J	0.9	0.4 J	0.6
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.2 J	ND@0.5	3.7
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	0.4 J	1.1	0.7	0.7	1
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	0.2 J	0.5	1	0.4 J	23
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	15	5.2	49
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	0.2 J	0.6	0.6	0.1 J

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Sample Location		323	324	324	325	325	351
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		10/08/2014	01/08/2014	07/29/2014	01/08/2014	07/29/2014	04/10/2014
Laboratory Sample I.D.		7630882	7332750	7550269	7332751	7550270	7428873
Sample Comment Codes		P	P	P	P	P	
Parameter	Units						
Indicator Parameters							
PH	SU	5.67	6.16	5.87	5.25	5.24	7.39
SPECIFIC CONDUCTANCE	umhos/cm	209	5750	5110	6210	6140	475
TEMPERATURE	C	9.9	10.3	12.8	10	12.6	10.4
TURBIDITY	NTU	3.07	1.04	7.82	1.09	1.34	762
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	260	260	140	130	0.1 J
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	1.2	7.6	17	6.4	6.7	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	1.4 J	1.4 J	1.1 J	0.9 J	ND@0.5
1,1-DICHLOROETHANE	ug/L	4	87	220	71	69	0.1 J
1,1-DICHLOROETHENE	ug/L	0.7	110	120	84	77	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	1.2	ND@2.5	4.1	1.1 J	ND@2.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	0.6 J	0.7 J	0.6 J	0.6 J	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	0.7 J	0.8 J	0.6 J	ND@2.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	0.7 J	0.6 J	ND@2.5	ND@2.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	7.9	51	54	45	44	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@2.5	ND@2.5	ND@2.5	ND@2.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	1.2 J	1.3 J	2.5	2.5 J	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	1.7 J	2 J	6.3	6.7	ND@0.5
TRICHLOROETHENE	ug/L	64	640	580	370	360	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@2.5	ND@2.5	ND@2.5	ND@2.5	ND@0.5
VINYL CHLORIDE	ug/L	0.1 J	2.8	3.7	3.8	3	0.1 J

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Sample Location	351	352	353	354	355	356
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	10/10/2014	10/10/2014	07/28/2014	07/28/2014	10/07/2014	10/07/2014
Laboratory Sample I.D.	7634074	7634075	7548250	7548251	7630835	7630836
Sample Comment Codes			P		P	P

Parameter	Units						
Indicator Parameters							
PH	SU	7.27	7.2	6.55	7.46	8.03	7.72
SPECIFIC CONDUCTANCE	umhos/cm	459	376	850	346	227	126
TEMPERATURE	C	10.6	10.8	16.4	18.5	12.1	11.3
TURBIDITY	NTU	179	18.1	3.84	340	5.28	5.06
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	0.3 J	0.2 J	4900	81	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	6.4 J	0.1 J	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	0.2 J	0.1 J	2200	0.2 J	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	2300	7.4	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	0.1 J	0.1 J	190	0.1 J	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@25	0.1 J	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	0.2 J	ND@0.5	4600	11	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	0.1 J	ND@0.5	15 J	ND@0.5	ND@0.5	ND@0.5

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Sample Location	357	357	358	361	362	363
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	01/08/2014	07/31/2014	07/31/2014	07/31/2014	10/06/2014	10/06/2014
Laboratory Sample I.D.	7332754	7552844	7552845	7552848	7630829	7630831
Sample Comment Codes	P	P	P	P	P	P

Parameter	Units						
Indicator Parameters							
PH	SU	7.07	7.22	6.77	6.33	7.37	5.91
SPECIFIC CONDUCTANCE	umhos/cm	1940	1520	2300	2310	433	6130
TEMPERATURE	C	7.9	12.3	14.4	11.7	12.1	12.5
TURBIDITY	NTU	0.56	1.98	1.41	12	4.86	4.93
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	14	0.9	ND@0.5	0.9
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	0.6	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	1.3	1.4	11	2.3	ND@0.5	0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	2.4	0.3 J	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	0.8	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	0.3 J	0.2 J	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	ND@0.5	2.6	0.6	ND@0.5	0.2 J
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		364	365	366	367	367	368
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		07/29/2014	07/29/2014	07/28/2014	01/08/2014	07/28/2014	01/08/2014
Laboratory Sample I.D.		7550277	7550278	7548273	7332758	7548275	7332759
Sample Comment Codes		P	P		P	P	
Parameter	Units						
Indicator Parameters							
PH	SU	6.23	6.08	6.08	6.74	5.91	6.41
SPECIFIC CONDUCTANCE	umhos/cm	1580	1770	1390	1890	1800	3260
TEMPERATURE	C	12.9	12.5	14.3	9.7	13.6	10.5
TURBIDITY	NTU	0.96	0.97	2.73	1.09	4.36	79.9
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	28	79	76	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	0.5 J	3	3.4	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.1 J	0.1 J	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	ND@0.5	12	9.9	11	7.4
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	7	21	21	0.2 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	1.2	1.1	1.2	0.2 J
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.1 J	ND@0.5	0.5 J
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	0.3 J	0.5	0.6	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	6.9	3.6	3.8	1.8
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	1	20	7.7	8.7	0.3 J
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.8	0.9	1.2

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Sample Location		368	373	373	374	374	378
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		07/28/2014	04/09/2014	10/06/2014	04/09/2014	10/06/2014	01/07/2014
Laboratory Sample I.D.		7548274	7427554	7630830	7427555	7630828	7331544
Sample Comment Codes			P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.27	6.33	7	7.23	7.37	6.7
SPECIFIC CONDUCTANCE	umhos/cm	2880	1080	780	710	790	1730
TEMPERATURE	C	14.1	10.1	11.7	8.8	13.5	10.5
TURBIDITY	NTU	550	2.09	5.62	1.61	5.69	0.77
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	4	4	ND@0.5	0.1 J	5.8
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.4 J
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	12	0.5	0.8	ND@0.5	ND@0.5	50
1,1-DICHLOROETHENE	ug/L	0.6	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.7
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	0.4 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	1.8
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	0.4 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.6
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	3.6	ND@0.5	ND@0.5	ND@0.5	ND@0.5	3
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	1.7	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.2 J
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	1.3	ND@0.5	ND@0.5	ND@0.5	ND@0.5	7.9

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Sample Location	378	379	382	383	383	386
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	07/29/2014	07/29/2014	07/28/2014	01/08/2014	07/31/2014	10/07/2014
Laboratory Sample I.D.	7550279	7550280	7548272	7332756	7552849	7630869
Sample Comment Codes	P	P	P	P	P	P

Parameter	Units						
Indicator Parameters							
PH	SU	6.35	6.59	6.92	7.17	6.62	NA
SPECIFIC CONDUCTANCE	umhos/cm	1590	1570	630	2560	3280	NA
TEMPERATURE	C	12.5	12	14.5	6.8	13.3	NA
TURBIDITY	NTU	0.95	1.2	1.92	0.68	7.79	3.99
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	200	1.2	0.2 J	2.3	1.9	18
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	19	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.8
1,1,2-TRICHLOROETHANE	ug/L	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	520	5.4	ND@0.5	0.6	0.6	28
1,1-DICHLOROETHENE	ug/L	50	0.4 J	ND@0.5	0.3 J	0.2 J	11
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	18	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.9
1,2-DICHLOROETHANE (EDC)	ug/L	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
CHLOROETHANE	ug/L	1.3	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
CIS-1,2-DICHLOROETHENE	ug/L	69	0.4 J	ND@0.5	0.1 J	0.1 J	45
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	3.4	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
TRICHLOROETHENE	ug/L	41	0.1 J	0.1 J	3.4	3	140
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	15	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location	387	392	392	393	393	393
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	10/09/2014	01/08/2014	07/29/2014	01/09/2014	04/10/2014	07/28/2014
Laboratory Sample I.D.	7634063	7332757	7550271	7332760	7428872	7548276
Sample Comment Codes	P	P	P			

Parameter	Units						
Indicator Parameters							
PH	SU	NA	6.95	6.86	7	6.87	6.83
SPECIFIC CONDUCTANCE	umhos/cm	NA	7030	2390	2380	2470	2230
TEMPERATURE	C	NA	8.8	12.3	10.7	12.2	13.7
TURBIDITY	NTU	3.97	0.67	1.61	22.8	127	156
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	0.4 J	1	740	680	920
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	91	85	100
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@5	ND@5	ND@5
1,1-DICHLOROETHANE	ug/L	ND@0.5	0.4 J	0.8	1000	960	1200
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	89	75	100
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	18	15	22
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@5	ND@5	ND@5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	1.5 J	ND@5	1.1 J
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@5	ND@5	ND@5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	110	98	120
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@5	ND@5	ND@5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@5	ND@5	ND@5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@5	ND@5	ND@5
TRICHLOROETHENE	ug/L	ND@0.5	0.4 J	1.2	150	140	180
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@5	ND@5	ND@5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	16	12	14

Groundwater Analytical Chemistry Data Owego, New York January 1, 2014 - December 31, 2014							
Sample Location	393	394	394	395	397	398	
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	
Sample Date	10/10/2014	01/09/2014	07/28/2014	07/29/2014	07/31/2014	01/09/2014	
Laboratory Sample I.D.	7634080	7332761	7550253	7550264	7552850	7332772	
Sample Comment Codes		P	P	P	P	P	
Parameter	Units						
Indicator Parameters							
PH	SU	6.7	6.65	6.39	6.83	7.89	6.2
SPECIFIC CONDUCTANCE	umhos/cm	2380	3230	2830	1980	636	960
TEMPERATURE	C	12.3	9.7	13.3	12.6	11.9	6.5
TURBIDITY	NTU	61.9	0.61	15.7	0.95	9.68	0.61
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	900	ND@0.5	ND@0.5	970	ND@0.5	8.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	110	ND@0.5	ND@0.5	110	ND@0.5	0.3 J
1,1,2-TRICHLOROETHANE	ug/L	ND@5	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	1300	ND@0.5	ND@0.5	1300	ND@0.5	7.2
1,1-DICHLOROETHENE	ug/L	110	ND@0.5	ND@0.5	110	ND@0.5	3.6
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	21	ND@0.5	ND@0.5	23	ND@0.5	0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@5	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	1.4 J	ND@0.5	ND@0.5	1.9 J	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@5	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	130	ND@0.5	ND@0.5	120	ND@0.5	1
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@5	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@5	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@5	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	190	ND@0.5	ND@0.5	190	ND@0.5	7.6
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@5	ND@0.5	ND@0.5	ND@5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	17	ND@0.5	ND@0.5	19	ND@0.5	ND@0.5

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Groundwater Analytical Chemistry Data Owego, New York January 1, 2014 - December 31, 2014							
Sample Location	398	399	399	399	399	404	
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW EXTR WELL	
Sample Date	07/31/2014	01/08/2014	04/09/2014	07/29/2014	10/07/2014	01/10/2014	
Laboratory Sample I.D.	7552851	7331563	7427564	7550273	7630848	7333633	
Sample Comment Codes	P	P	P	P	P		
Parameter	Units						
Indicator Parameters							
PH	SU	6.44	7	6.67	6.83	6.45	7.55
SPECIFIC CONDUCTANCE	umhos/cm	1250	1710	1940	2360	2030	1090
TEMPERATURE	C	13.3	5.4	4.6	16.2	14.5	9.1
TURBIDITY	NTU	13.4	0.85	1.76	1.89	4.86	0.55
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	8.3	ND@0.5	ND@0.5	ND@0.5	ND@0.5	6.3
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	0.3 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	32
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	7.7	ND@0.5	ND@0.5	ND@0.5	ND@0.5	4.5
1,1-DICHLOROETHENE	ug/L	3.9	ND@0.5	ND@0.5	ND@0.5	ND@0.5	1.1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	0.6	ND@0.5	ND@0.5	ND@0.5	ND@0.5	6.4
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.5
CIS-1,2-DICHLOROETHENE	ug/L	1.1	ND@0.5	0.1 J	0.3 J	0.2 J	23
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
TRICHLOROETHENE	ug/L	8	ND@0.5	0.5 J	0.2 J	ND@0.5	130
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.1 J	ND@0.5	0.2 J

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Sample Location		404	404	404	405	405	405
Sample Description		GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL
Sample Date		04/11/2014	07/29/2014	10/09/2014	01/10/2014	04/11/2014	07/29/2014
Laboratory Sample I.D.		7428874	7552838	7634065	7333634	7428875	7552839
Sample Comment Codes							
Parameter	Units						
Indicator Parameters							
PH	SU	7.34	7.23	6.59	7.38	7.56	7.32
SPECIFIC CONDUCTANCE	umhos/cm	1080	950	1040	780	660	564
TEMPERATURE	C	11.2	11.7	11	9.9	8.8	11.5
TURBIDITY	NTU	2.28	3.28	12	0.93	2.22	3.25
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	6.6	7.3	6	23	18	19
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	33	49	39	70	71	57
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	4.9	5.1	4.7	5.5	4.9	4.5
1,1-DICHLOROETHENE	ug/L	1.2	1.4	1.1	4.9	4.3	4.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	6.8	8.1	5.4	3.2	3.3	3.3
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	0.6	1	0.3 J	0.2 J	0.2 J	0.2 J
CIS-1,2-DICHLOROETHENE	ug/L	22	25	23	19	20	19
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	0.2 J	0.2 J	0.2 J	0.4 J	0.4 J	0.4 J
TRICHLOROETHENE	ug/L	130	140	120	100	97	84
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	0.2 J	0.2 J	0.3 J	ND@0.5	ND@0.5	ND@0.5

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Sample Location		405	412	412	412	412	412,413,414
Sample Description		GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	COMBINED
Sample Date		10/09/2014	01/10/2014	04/08/2014	07/29/2014	10/09/2014	01/10/2014
Laboratory Sample I.D.		7634066	7333639	7427547	7550265	7634071	7333637
Sample Comment Codes							
Parameter	Units						
Indicator Parameters							
PH	SU	6.82	6.93	7.25	7	6.81	6.34
SPECIFIC CONDUCTANCE	umhos/cm	850	2200	2540	1930	2210	2690
TEMPERATURE	C	11.1	10.6	12.3	13	13.9	11.7
TURBIDITY	NTU	6.11	29.5	38.7	28.7	28.3	1.7
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	22	850	650	340	230	130
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	92	84	75	32	24	18
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@5	ND@5	ND@5	ND@5	0.1 J
1,1-DICHLOROETHANE	ug/L	7.1	950	740	380	340	170
1,1-DICHLOROETHENE	ug/L	6.5	91	76	41	36	24
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	3.8	17	13	6.1	4.2 J	3.6
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@5	ND@5	ND@5	ND@5	0.2 J
CHLOROETHANE	ug/L	ND@0.5	2 J	1.3 J	ND@5	ND@5	0.6
CHLOROFORM (TRICHLOROMETHANE)	ug/L	0.2 J	ND@5	1.5 J	ND@5	ND@5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	22	98	77	39	37	22
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@5	ND@5	ND@5	ND@5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@5	ND@5	ND@5	ND@5	ND@0.5
TETRACHLOROETHENE	ug/L	0.5	ND@5	ND@5	ND@5	ND@5	0.2 J
TRICHLOROETHENE	ug/L	110	160	140	88	81	68
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@5	ND@5	ND@5	ND@5	ND@0.5
VINYL CHLORIDE	ug/L	0.1 J	16	11	8	4.3 J	3.1

Groundwater Analytical Chemistry Data

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Sample Location	412,413,414	412,413,414	412,413,414	413	413	413
Sample Description	COMBINED	COMBINED	COMBINED	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL
Sample Date	04/08/2014	07/29/2014	10/09/2014	01/10/2014	04/08/2014	07/29/2014
Laboratory Sample I.D.	7427549	7550267	7634069	7333636	7427548	7550266
Sample Comment Codes						

Parameter	Units
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Indicator Parameters

PH	SU	6.47	6.37	6.3	6.38	6.45	6.36
SPECIFIC CONDUCTANCE	umhos/cm	3060	2460	2790	2710	3050	2290
TEMPERATURE	C	12.5	14.3	14	11.6	12	13
TURBIDITY	NTU	5.25	3.24	5.84	9.04	3.3	8.59

Volatile Organics

1,1,1-TRICHLOROETHANE	ug/L	150	350	260	96	130	100
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	23	29	28	12	21	13
1,1,2-TRICHLOROETHANE	ug/L	0.1 J	ND@2.5	0.4 J	0.1 J	0.1 J	0.1 J
1,1-DICHLOROETHANE	ug/L	200	760	570	140	180	160
1,1-DICHLOROETHENE	ug/L	28	47	41	20	25	23
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	4.2	11	11	2.6	3.9	3.2
1,2-DICHLOROETHANE (EDC)	ug/L	0.1 J	ND@2.5	0.3 J	0.1 J	0.1 J	0.2 J
CHLOROETHANE	ug/L	0.5	0.9 J	0.9	0.4 J	0.5	0.4 J
CHLOROFORM (TRICHLOROMETHANE)	ug/L	0.1 J	ND@2.5	0.3 J	ND@0.5	0.2 J	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	26	64	57	22	23	25
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	0.2 J	1.2 J	1.2	0.1 J	0.2 J	0.2 J
TRICHLOROETHENE	ug/L	79	230	180	53	71	60
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	3.2	4.1	4.3	2.1	2.9	1.9

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Sample Location	413	414	414	414	414	415
Sample Description	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	GW EXTR WELL
Sample Date	10/09/2014	01/10/2014	04/08/2014	07/29/2014	10/09/2014	01/10/2014
Laboratory Sample I.D.	7634070	7333640	7427550	7550268	7634072	7333635
Sample Comment Codes						

Parameter	Units
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Indicator Parameters

PH	SU	6.22	6.25	6.34	6.47	6.18	6.14
SPECIFIC CONDUCTANCE	umhos/cm	2490	2980	3570	2780	3210	5220
TEMPERATURE	C	12.8	11.3	12	13.8	12.7	14.8
TURBIDITY	NTU	4.69	139	187	130	51.4	5.34

Volatile Organics

1,1,1-TRICHLOROETHANE	ug/L	130	430	560	560	590	1900
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	15	76	95	79	110	170
1,1,2-TRICHLOROETHANE	ug/L	0.1 J	0.8 J	0.8 J	0.7 J	0.7 J	10 J
1,1-DICHLOROETHANE	ug/L	190	530	1000	1100	1100	1400
1,1-DICHLOROETHENE	ug/L	24	96	99	90	100	1300
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	3.2	11	24	24	26	ND@50
1,2-DICHLOROETHANE (EDC)	ug/L	0.2 J	ND@2.5	ND@2.5	ND@2.5	ND@2.5	ND@50
CHLOROETHANE	ug/L	0.4 J	0.9 J	0.9 J	1.1 J	1 J	ND@50
CHLOROFORM (TRICHLOROMETHANE)	ug/L	0.1 J	0.7 J	0.8 J	0.6 J	0.6 J	ND@50
CIS-1,2-DICHLOROETHENE	ug/L	24	97	93	96	100	2900
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@2.5	ND@2.5	ND@2.5	ND@2.5	ND@50
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@2.5	1.2 J	ND@2.5	ND@2.5	ND@50
TETRACHLOROETHENE	ug/L	0.2 J	3.8	3.7	3.6	3.9	29 J
TRICHLOROETHENE	ug/L	64	470	490	440	490	1600
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@2.5	ND@2.5	ND@2.5	ND@2.5	ND@50
VINYL CHLORIDE	ug/L	2.3	2.6	4.7	4.2	5.5	200

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Sample Location		415	415	415	521	521	522
Sample Description		GW EXTR WELL	GW EXTR WELL	GW EXTR WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		04/11/2014	07/28/2014	10/09/2014	01/07/2014	07/29/2014	01/08/2014
Laboratory Sample I.D.		7428881	7548268	7634068	7331542	7550275	7331562
Sample Comment Codes					P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.56	6.7	6.54	6.52	7.17	7.04
SPECIFIC CONDUCTANCE	umhos/cm	6360	4250	3690	2160	1330	2180
TEMPERATURE	C	15.8	16.8	16.5	11.9	14.4	10.9
TURBIDITY	NTU	1.53	3.4	7.54	0.52	3.02	1.03
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	2000	2500	2800	ND@0.5	22	82
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	210	220	270	0.6	4.6	8.4
1,1,2-TRICHLOROETHANE	ug/L	ND@50	ND@50	10 J	ND@0.5	ND@0.5	ND@1
1,1-DICHLOROETHANE	ug/L	1400	1700	2000	74	48	270
1,1-DICHLOROETHENE	ug/L	1300	1500	1900	2.7	6.1	17
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@50	ND@50	ND@50	3	1	4.3
1,2-DICHLOROETHANE (EDC)	ug/L	ND@50	ND@50	ND@50	ND@0.5	ND@0.5	ND@1
CHLOROETHANE	ug/L	ND@50	ND@50	ND@50	51	0.6	1.1
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@50	ND@50	ND@50	ND@0.5	ND@0.5	ND@1
CIS-1,2-DICHLOROETHENE	ug/L	3200	4200	4700	6.4	4.2	17
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@50	ND@50	ND@50	ND@0.5	ND@0.5	ND@1
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@50	ND@50	ND@50	ND@0.5	ND@0.5	ND@1
TETRACHLOROETHENE	ug/L	28 J	32 J	37 J	ND@0.5	ND@0.5	ND@1
TRICHLOROETHENE	ug/L	1700	2200	2700	0.1 J	1.2	6.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@50	ND@50	ND@50	ND@0.5	ND@0.5	ND@1
VINYL CHLORIDE	ug/L	180	250	280	6.2	2.4	5.2

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Sample Location		522	522	522	524	524	529
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		04/09/2014	07/29/2014	10/07/2014	01/08/2014	07/31/2014	01/07/2014
Laboratory Sample I.D.		7427563	7550276	7630850	7332752	7552841	7331541
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.68	6.95	6.67	7.07	6.91	6.44
SPECIFIC CONDUCTANCE	umhos/cm	2280	2040	2080	2090	1770	740
TEMPERATURE	C	9.9	13.6	15.9	10.2	13.1	8.3
TURBIDITY	NTU	1.6	7.28	4.4	0.75	1.64	0.75
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	100	140	120	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	14	16	15	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@1	ND@1	ND@1	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	320	400	390	0.1 J	0.2 J	ND@0.5
1,1-DICHLOROETHENE	ug/L	26	31	29	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	6.1	7.2	6.9	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@1	ND@1	ND@1	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	1.1	1.1	1	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@1	ND@1	ND@1	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	24	31	28	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@1	ND@1	ND@1	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@1	ND@1	ND@1	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@1	ND@1	ND@1	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	10	16	12	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@1	ND@1	ND@1	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	6.4	7.9	7.5	ND@0.5	ND@0.5	ND@0.5

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Owego, New York
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Sample Location		529	529	529	532	532	532
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		04/09/2014	07/29/2014	10/07/2014	01/08/2014	04/09/2014	07/31/2014
Laboratory Sample I.D.		7427562	7550274	7630849	7332753	7427522	7552842
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	7.29	6.7	6.42	6.92	6.76	6.79
SPECIFIC CONDUCTANCE	umhos/cm	1300	1040	1290	1400	2130	1440
TEMPERATURE	C	6.4	19.3	18.5	7.9	8.2	14.1
TURBIDITY	NTU	1.66	2.11	4.63	0.55	1.22	1.22
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	1.5	1.7	1.9
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	0.4 J	1.1	0.9	0.8	1.3
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5

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Sample Location		532	534	534	534	534	540
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		10/07/2014	01/07/2014	04/09/2014	07/29/2014	10/07/2014	04/09/2014
Laboratory Sample I.D.		7630864	7331543	7427561	7550272	7630847	7427557
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.53	7.05	7.25	7.14	6.57	7.55
SPECIFIC CONDUCTANCE	umhos/cm	1410	1950	3430	1740	228	860
TEMPERATURE	C	14.4	8.8	7.5	17.2	18.5	10.6
TURBIDITY	NTU	3.78	1.31	7.02	1.46	3.75	1.42
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		540	541	541	542	542	543
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		10/08/2014	04/09/2014	10/08/2014	04/09/2014	10/08/2014	04/09/2014
Laboratory Sample I.D.		7630874	7427558	7630875	7427559	7630876	7427556
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	7.37	6.96	7.36	7.13	7	6.55
SPECIFIC CONDUCTANCE	umhos/cm	680	940	374	1080	780	2380
TEMPERATURE	C	11.6	10.4	11.5	10.4	13	11.1
TURBIDITY	NTU	4.24	1.78	3.63	1.97	3.44	1.56
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	1.8
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.2 J
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	2.2
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	2.1
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	1.7	1.6	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.9	0.9	ND@0.5

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Sample Location		543	601	601	602	602	603
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		10/08/2014	01/09/2014	07/31/2014	01/09/2014	07/31/2014	01/09/2014
Laboratory Sample I.D.		7630873	7333629	7552852	7333630	7552853	7333631
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	7.11	6.29	6.39	6.53	6.09	6.19
SPECIFIC CONDUCTANCE	umhos/cm	1390	2560	2500	1650	2500	760
TEMPERATURE	C	11.7	6.5	14.9	7.2	13.3	6.9
TURBIDITY	NTU	3.1	0.63	5.07	0.56	14.7	0.77
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	1.7	9.2	0.4 J
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.3 J	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	0.1 J	0.5 J	0.2 J	0.5	2.6	0.5 J
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.3 J	1.8	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	1.8	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	1.3	ND@0.5	ND@0.5	0.3 J	1.3	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	0.1 J	0.2 J	6.6	17	0.8
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location

Sample Description

Sample Date

Laboratory Sample I.D.

Sample Comment Codes

	603	604	604	605	606	606
	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
	07/31/2014	01/09/2014	07/29/2014	07/29/2014	01/07/2014	04/09/2014
	7552854	7332762	7550254	7550255	7331546	7427565
	P	P	P	P	P	P

Parameter

Units

Indicator Parameters

PH	SU	6.59	6.16	6.13	6.3	7.96	6.17
SPECIFIC CONDUCTANCE	umhos/cm	1370	3090	2990	1180	395	638
TEMPERATURE	C	13.7	11.4	14.9	13.8	10.5	10.5
TURBIDITY	NTU	6.67	7.95	5.6	1.97	0.86	1.29

Volatile Organics

1,1,1-TRICHLOROETHANE	ug/L	0.4 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	0.6	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	0.8	ND@0.5	ND@0.5	0.3 J	ND@0.5	0.2 J
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location

Sample Description

Sample Date

Laboratory Sample I.D.

Sample Comment Codes

	606	606	607	607	607	607
	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
	07/29/2014	10/07/2014	01/07/2014	04/09/2014	07/29/2014	10/07/2014
	7550281	7630851	7331547	7427566	7550262	7630852
	P	P	P	P	P	P

Parameter

Units

Indicator Parameters

PH	SU	6.57	6.57	6.93	6.76	6.81	6.77
SPECIFIC CONDUCTANCE	umhos/cm	526	860	1430	1820	1470	486
TEMPERATURE	C	12.5	12.5	10.5	11	12.3	12.7
TURBIDITY	NTU	1.02	4.35	0.64	1.23	1.18	4.31

Volatile Organics

1,1,1-TRICHLOROETHANE	ug/L	0.4 J	0.4 J	3.2	3.2	3.1	2.2
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	0.7	0.8	6	6.5	7.5	8.3
1,1-DICHLOROETHENE	ug/L	0.4 J	0.4 J	2.1	2.2	2.1	1.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	0.4 J	0.4 J	0.5	0.6	0.6	0.5 J
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	0.6	0.6	4.7	4.5	4.2	2.8
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	0.1 J	0.2 J	0.5	0.6	0.8	0.6

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Sample Location		608	608	609	610	610	611
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		01/09/2014	07/31/2014	07/28/2014	01/07/2014	07/28/2014	01/07/2014
Laboratory Sample I.D.		7332773	7552855	7548252	7331553	7548254	7331552
Sample Comment Codes		P	P	P	P	P	
Parameter	Units						
Indicator Parameters							
PH	SU	6.55	6.58	6.89	5.2	5.39	6.53
SPECIFIC CONDUCTANCE	umhos/cm	1780	2130	2090	33450	12140	16090
TEMPERATURE	C	6.2	14.2	14.8	14.1	15.1	11.3
TURBIDITY	NTU	0.85	6.12	1.94	13	2.69	1000
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	7.2	1.1	3400	150	170	0.1 J
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	0.4 J	0.2 J	480	8.8	10	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@25	2.4	2.7	ND@0.5
1,1-DICHLOROETHANE	ug/L	8.2	7.9	2600	52	54	1.1
1,1-DICHLOROETHENE	ug/L	4.3	2.1	140	92	100	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	0.6	0.5 J	69	0.7	0.8	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@25	0.7	0.7	ND@0.5
CHLOROETHANE	ug/L	0.2 J	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@25	0.6	0.7	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	1.8	3.4	130	61	59	0.4 J
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@25	2.2	2.6	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@25	19	22	ND@0.5
TRICHLOROETHENE	ug/L	24	10	200	230	250	0.8
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@25	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	0.7	2.4	16 J	0.4 J	0.5 J	0.1 J

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Sample Location	611		612		612		613		613		614	
Sample Description	GW MON WELL		GW MON WELL		GW MON WELL		GW MON WELL		GW MON WELL		GW MON WELL	
Sample Date	07/28/2014		01/07/2014		07/28/2014		01/07/2014		07/28/2014		10/08/2014	
Laboratory Sample I.D.	7548255		7331550		7548256		7331551		7548257		7630885	
Sample Comment Codes			P		P		P		P		P	
Parameter	Units											
Indicator Parameters												
PH	SU	6.52	5.36	5.55	5.06	5.26	7.33					
SPECIFIC CONDUCTANCE	umhos/cm	27920	8690	9530	9110	9990	203					
TEMPERATURE	C	19.5	11.7	14.3	12.2	15.2	10.3					
TURBIDITY	NTU	3.74	0.82	0.75	0.65	0.96	3.29					
Volatile Organics												
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	290	300	170	190	ND@0.5					
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	7.2	7.8	4.8	5.3	ND@0.5					
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	2.4 J	2.3 J	1.6	1.5	ND@0.5					
1,1-DICHLOROETHANE	ug/L	0.7	130	130	84	86	0.3 J					
1,1-DICHLOROETHENE	ug/L	ND@0.5	110	110	67	70	ND@0.5					
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@5	ND@5	1.2	1.5	ND@0.5					
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	2.3 J	2 J	1.3	1.2	ND@0.5					
CHLOROETHANE	ug/L	ND@0.5	2.5 J	1.8 J	2	1.9	ND@0.5					
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@5	ND@5	0.5 J	0.5 J	ND@0.5					
CIS-1,2-DICHLOROETHENE	ug/L	0.4 J	140	130	96	94	0.6					
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@5	ND@5	ND@1	ND@1	ND@0.5					
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	9.6	9.9	4.6	4.7	ND@0.5					
TETRACHLOROETHENE	ug/L	ND@0.5	3 J	4.3 J	7.4	11	ND@0.5					
TRICHLOROETHENE	ug/L	0.1 J	730	690	370	360	ND@0.5					
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@5	ND@5	ND@1	ND@1	ND@0.5					
VINYL CHLORIDE	ug/L	0.3 J	9.1	10	7.6	8.9	ND@0.5					

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Sample Location		615	616	616	617	617	618
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		07/31/2014	01/09/2014	07/28/2014	01/07/2014	07/28/2014	01/08/2014
Laboratory Sample I.D.		7552856	7332763	7548271	7331554	7548258	7331560
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.96	7.17	6.17	7.09	6.99	7.65
SPECIFIC CONDUCTANCE	umhos/cm	2030	582	564	1050	1120	474
TEMPERATURE	C	11.4	12.3	14	12.6	14.8	6.4
TURBIDITY	NTU	5.39	2.02	1.56	2.14	0.86	1.26
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	0.1 J	0.2 J	0.2 J	0.2 J	0.2 J	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	0.5 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	0.6	0.4 J	ND@0.5	ND@0.5	18
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		618	619	620	621	621	622
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		07/28/2014	10/07/2014	04/10/2014	04/10/2014	10/07/2014	04/10/2014
Laboratory Sample I.D.		7548270	7630845	7427538	7427541	7630842	7427542
Sample Comment Codes		P	P		P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	6.48	7.36	6.92	6.27	6.15	6.27
SPECIFIC CONDUCTANCE	umhos/cm	567	1790	365	2650	3680	2350
TEMPERATURE	C	11	16.9	9.4	11.9	12.7	12
TURBIDITY	NTU	12.8	4.29	5.16	1.62	4.76	1.6
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	420	1.9	63	80	52
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	42	ND@0.5	3.7	4.8	2.1
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	530	ND@0.5	77	110	80
1,1-DICHLOROETHENE	ug/L	ND@0.5	90	ND@0.5	7.9	11	5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	4.8 J	ND@0.5	1.6	2.2	1.8
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	1.8 J	ND@0.5	0.2 J	0.2 J	0.2 J
CHLOROETHANE	ug/L	ND@0.5	1.2 J	ND@0.5	0.1 J	0.2 J	0.2 J
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@5	ND@0.5	0.2 J	0.1 J	0.1 J
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	1 J	ND@0.5	0.1 J	0.1 J	0.1 J
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	15	7.4	ND@0.5	2.2	2.7	1.7
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	1.5 J	ND@0.5	ND@0.5	ND@0.5	0.2 J

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Sample Location	622	623	624	625	625	625
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	10/07/2014	10/07/2014	10/07/2014	01/09/2014	04/09/2014	07/29/2014
Laboratory Sample I.D.	7630843	7630859	7630860	7332767	7427552	7550257
Sample Comment Codes	P	P	P	P	P	P
Parameter	Units					
Indicator Parameters						
PH	SU	6.93	6.66	6.53	7.37	7.15
SPECIFIC CONDUCTANCE	umhos/cm	2420	3090	1280	628	750
TEMPERATURE	C	12.1	11.2	11	8.9	10.7
TURBIDITY	NTU	5.09	3.91	4.2	1.13	4.13
2.55						
Volatile Organics						
1,1,1-TRICHLOROETHANE	ug/L	64	26	52	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	3.9	0.7	1.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	96	18	47	2.6	2.9
1,1-DICHLOROETHENE	ug/L	8.9	1.7	5.6	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	1.9	0.3 J	0.7	1	1
1,2-DICHLOROETHANE (EDC)	ug/L	0.2 J	ND@0.5	0.1 J	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	0.1 J	ND@0.5	0.1 J	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	0.1 J	ND@0.5	ND@0.5	0.2 J	0.2 J
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	3	1.1	2.8	0.2 J	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	3.8	2.7
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Sample Location		625	626	626	627	627	628
Sample Description		GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date		10/07/2014	04/09/2014	10/07/2014	04/10/2014	10/08/2014	10/08/2014
Laboratory Sample I.D.		7630833	7427553	7630834	7427543	7630886	7630887
Sample Comment Codes		P	P	P	P	P	P
Parameter	Units						
Indicator Parameters							
PH	SU	7.83	7.02	7.25	6.01	5.74	6.36
SPECIFIC CONDUCTANCE	umhos/cm	730	492	750	338	266	0.89
TEMPERATURE	C	12.6	10.1	11.2	9.4	9.9	9.5
TURBIDITY	NTU	5.26	2.02	5.51	3.55	3.84	3.89
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/L	0.1 J	ND@0.5	ND@0.5	0.4 J	0.4 J	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	0.2 J	ND@0.5	ND@0.5	3.2	3.4	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	3.1	ND@0.5	ND@0.5	0.3	0.5	0.3 J
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.1 J	0.1 J	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	3.6	ND@0.5	ND@0.5	1.8	2.7	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	1.6	1.6	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	1.5	ND@0.5	0.1 J	5.1	6.2	1.9
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	0.8	0.8	ND@0.5
TRICHLOROETHENE	ug/L	0.6	ND@0.5	ND@0.5	34	30	ND@0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	19	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.4 J

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Sample Location	629	630	631	631	632	632
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	10/09/2014	10/09/2014	04/09/2014	10/07/2014	04/09/2014	10/07/2014
Laboratory Sample I.D.	7634058	7634059	7427525	7630870	7427569	7630861
Sample Comment Codes	P	P	P	P	P	P

Parameter	Units					
Indicator Parameters						
PH	SU	6.87	6.91	6.93	6.68	6.3
SPECIFIC CONDUCTANCE	umhos/cm	316	616	297	281	2000
TEMPERATURE	C	10.5	10.4	9.6	13.6	9.9
TURBIDITY	NTU	4.2	3.76	1.08	3.6	1.68
Volatile Organics						
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	0.8	0.1 J	0.6	7.7
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	1.2	ND@0.5	0.2 J	0.3 J
1,1-DICHLOROETHENE	ug/L	ND@0.5	0.7	ND@0.5	ND@0.5	0.3 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	2.5	0.1 J	1.6	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	1.4	1.4	4.8	8.2
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location	P04	P08	P11
Sample Description	GW MON WELL	GW MON WELL	GW MON WELL
Sample Date	07/28/2014	10/07/2014	10/07/2014
Laboratory Sample I.D.	7548263	7630855	7630844
Sample Comment Codes	P	P	P

Parameter	Units			
Indicator Parameters				
PH	SU	6.6	7.35	7.16
SPECIFIC CONDUCTANCE	umhos/cm	501	1150	1240
TEMPERATURE	C	16.1	18	15.2
TURBIDITY	NTU	5.59	4.85	5.96
Volatile Organics				
1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	51	30
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	13	2
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	150	36
1,1-DICHLOROETHENE	ug/L	ND@0.5	11	2.6
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	3.4	0.6
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	0.1 J	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	0.6	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	0.5	0.3 J
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	0.2 J	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	ND@0.5	0.1 J	0.6
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	0.2 J	ND@0.5

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Explanation of Reporting Conventions and Key to Comment Codes
Owego, New York
January 1, 2014 - December 31, 2014

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value: the result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).
P	Sampled with a passive diffusion bag (PDB) sampling device.

APPENDIX G

QUALITY CONTROL ANALYTICAL CHEMISTRY DATA FOR ENVIRONMENTAL BLANKS January 1, 2014 – December 31, 2014

Quality Control Analytical Chemistry Data for Environmental Blanks

Owego, New York

January 1, 2014 - December 31, 2014

Sample Location
Sample Description
Sample Date
Laboratory Sample I.D.
Sample Comment Codes

EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
01/07/2014	01/08/2014	01/09/2014	01/10/2014	04/08/2014	04/09/2014
7331545	7331564	7332764	7333638	7427551	7427560

Parameter
Units

Volatile Organics

1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	0.1 J	0.1 J	ND@0.5	0.1 J	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	0.4 J	0.4 J	0.4 J	0.4 J	ND@0.5	ND@0.5
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHENE	ug/L	0.5	0.6	0.5	0.5	0.5	0.5
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Quality Control Analytical Chemistry Data for Environmental Blanks

Owego, New York

January 1, 2014 - December 31, 2014

Sample Location
Sample Description
Sample Date
Laboratory Sample I.D.
Sample Comment Codes

EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
04/10/2014	04/11/2014	07/28/2014	07/29/2014	07/31/2014	10/06/2014
7427536	7428880	7548253	7550256	7552843	7630832

Parameter
Units

Volatile Organics

1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	0.2 J	0.1 J	0.1 J	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	0.2 J	0.2 J	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	ND@0.5	0.2 J	0.2 J	0.2 J	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	0.1 J	0.1 J	0.1 J	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	0.3 J	0.3 J	0.3 J	0.1 J
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.3 J
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
TRICHLOROETHENE	ug/L	0.5	0.5 J	1.3	1.5	1.2	0.6
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Quality Control Analytical Chemistry Data for Environmental Blanks

Owego, New York

January 1, 2014 - December 31, 2014

Sample Location

Sample Description

Sample Date

Laboratory Sample I.D.

Sample Comment Codes

EQ RINSE BLK

EQ RINSE BLK

EQ RINSE BLK

EQ RINSE BLK

TRIP BLANK

TRIP BLANK

WTR LVL IND

WTR LVL IND

WTR LVL IND

WTR LVL IND

1/7-1/9

1/8-1/10

10/07/2014

10/08/2014

10/09/2014

10/10/2014

01/07/2014

01/08/2014

7630846

7630871

7634060

7634079

7331540

7332749

Parameter

Units

Volatile Organics

1,1,1-TRICHLOROETHANE

ug/L

ND@0.5

0.1 J

ND@0.5

ND@0.5

0.1 J

ND@0.5

1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,1,2-TRICHLOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,1-DICHLOROETHANE

ug/L

ND@0.5

0.3 J

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,1-DICHLOROETHENE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,2-DICHLORO-1,2,2-TRIFLUOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,2-DICHLOROETHANE (EDC)

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

CHLOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

CHLOROFORM (TRICHLOROMETHANE)

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

CIS-1,2-DICHLOROETHENE

ug/L

0.1 J

0.4 J

0.1 J

0.1 J

0.1 J

0.1 J

DICHLORODIFLUOROMETHANE (FREON 12)

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

METHYLENE CHLORIDE (DICHLOROMETHANE)

ug/L

0.3 J

ND@0.5

0.3 J

0.3 J

0.4 J

0.4 J

TETRACHLOROETHENE

ug/L

0.1 J

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

TRICHLOROETHENE

ug/L

0.6

1.1

0.6

0.6

0.6

0.6

TRICHLOROFLUOROMETHANE (FREON 11)

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

VINYL CHLORIDE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

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Quality Control Analytical Chemistry Data for Environmental Blanks

Owego, New York

January 1, 2014 - December 31, 2014

Sample Location

Sample Description

Sample Date

Laboratory Sample I.D.

Sample Comment Codes

TRIP BLANK

TRIP BLANK

TRIP BLANK

TRIP BLANK

TRIP BLANK

TRIP BLANK

1/9-1/10

1/10-1/11

4/8-4/11

4/9-4/11

4/10-4/12

4/11-4/12

01/09/2014

01/10/2014

04/08/2014

04/09/2014

04/10/2014

04/11/2014

7332766

7333641

7427546

7427521

7428866

7428879

Parameter

Units

Volatile Organics

1,1,1-TRICHLOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,1,2-TRICHLOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,1-DICHLOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,1-DICHLOROETHENE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,2-DICHLORO-1,2,2-TRIFLUOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

1,2-DICHLOROETHANE (EDC)

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

CHLOROETHANE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

CHLOROFORM (TRICHLOROMETHANE)

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

CIS-1,2-DICHLOROETHENE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

DICHLORODIFLUOROMETHANE (FREON 12)

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

METHYLENE CHLORIDE (DICHLOROMETHANE)

ug/L

0.4 J

0.3 J

ND@0.5

ND@0.5

ND@0.5

ND@0.5

TETRACHLOROETHENE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

TRICHLOROETHENE

ug/L

0.5

0.4 J

0.5

0.6

0.5

0.5

TRICHLOROFLUOROMETHANE (FREON 11)

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

VINYL CHLORIDE

ug/L

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

ND@0.5

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Quality Control Analytical Chemistry Data for Environmental Blanks

Owego, New York

January 1, 2014 - December 31, 2014

Sample Location	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description	7/28-7/30	7/28-7/31	7/29-8/2	7/31-8/2	10/6-10/9	10/7-10/11
Sample Date	07/28/2014	07/28/2014	07/29/2014	07/31/2014	10/06/2014	10/07/2014
Laboratory Sample I.D.	7548247	7550252	7552837	7552840	7630826	7634052
Sample Comment Codes						

Parameter	Units
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Volatile Organics

1,1,1-TRICHLOROETHANE	ug/L	0.1 J	0.2 J	0.2 J	0.2 J	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	0.2 J	0.2 J	0.2 J	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	0.2 J	0.2 J	0.2 J	0.2 J	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	0.1 J	0.1 J	0.1 J	0.1 J	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	0.3 J	0.3 J	0.3 J	0.3 J	0.1 J	0.1 J
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.3 J	0.3 J
TETRACHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J	0.1 J
TRICHLOROETHENE	ug/L	1.3	1.4	1.4	1.3	0.6	0.6
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Quality Control Analytical Chemistry Data for Environmental Blanks

Owego, New York

January 1, 2014 - December 31, 2014

Sample Location	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description	10/7-10/9	10/9-10/11	10/10-10/11
Sample Date	10/07/2014	10/09/2014	10/10/2014
Laboratory Sample I.D.	7630858	7634055	7634076
Sample Comment Codes			

Parameter	Units
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Volatile Organics

1,1,1-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5
1,1-DICHLOROETHENE	ug/L	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLOROETHANE (EDC)	ug/L	ND@0.5	ND@0.5	ND@0.5
CHLOROETHANE	ug/L	ND@0.5	ND@0.5	ND@0.5
CHLOROFORM (TRICHLOROMETHANE)	ug/L	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHENE	ug/L	0.1 J	0.1 J	0.1 J
DICHLORODIFLUOROMETHANE (FREON 12)	ug/L	ND@0.5	ND@0.5	ND@0.5
METHYLENE CHLORIDE (DICHLOROMETHANE)	ug/L	0.3 J	0.3 J	0.3 J
TETRACHLOROETHENE	ug/L	0.1 J	ND@0.5	0.1 J
TRICHLOROETHENE	ug/L	0.6	0.6	0.6
TRICHLOROFLUOROMETHANE (FREON 11)	ug/L	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/L	ND@0.5	ND@0.5	ND@0.5

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Explanation of Reporting Conventions and Key to Comment Codes
Owego, New York
January 1, 2014 - December 31, 2014

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value: the result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).
P	Sampled with a passive diffusion bag (PDB) sampling device.