

**FINAL REPORT**

# **Supplemental Ground Water Investigation Summary Report**

**Old Erie Canal Site  
Clyde, New York**

**Parker Hannifin Corporation  
Cleveland, Ohio**

**General Electric Company  
Albany, New York**

**March 29, 2007**



**O'BRIEN & GERE**

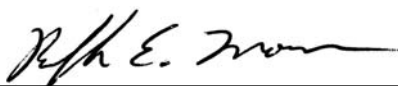
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March 29, 2007



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## **1. Introduction**

### **1.1. General**

This Supplemental Ground Water Investigation Summary Report (Summary Report) has been developed by O'Brien & Gere on behalf of the Parker Hannifin Corporation (Parker-Hannifin) and the General Electric Company (GE) for the Old Erie Canal Site (Site) in Clyde, New York. This summary report presents the results of additional investigations performed in response to comments of the New York State Department of Environmental Conservation (NYSDEC) dated March 1, 2006, regarding the "Feasibility Study (FS), Old Erie Canal Site, Clyde, New York," dated November 2005. This Supplemental Ground Water Investigation was conducted in accordance with the NYSDEC-approved Supplemental Ground Water Investigation Work Plan prepared by Conestoga-Rovers & Associates dated June 2006. This Work Plan was approved by the NYSDEC in an electronic mail correspondence dated October 16, 2006.

### **1.2. Project objectives and scope**

The objective of the Supplemental Ground Water Investigation was to gather additional data to further define the nature and extent of Site-related chemical presence in the ground water beneath the Site to the extent necessary to complete the FS. The scope of work for this additional investigation is described in the Supplemental Ground Water Investigation Work Plan prepared by Conestoga-Rovers & Associates dated June 2006 and included the following:

- Installation of eleven soil borings, nine permanent monitoring wells and two temporary monitoring wells to further define the nature and extent of ground water impact at the Site. and,
- Completion of one round of ground water sampling following completion of the installation and development of the additional monitoring wells. Samples were collected from all new and existing monitoring wells.
- Collection of one soil sample for laboratory analysis for volatile organic compounds (VOCs).

A complete description of the investigation methodology is included as Section 2.

## **2. Supplemental ground water investigation**

### **2.1. General**

This section describes the procedures followed while performing the tasks associated with the Supplemental Ground Water Investigation. Field investigation procedures were conducted in accordance with the NYSDEC-approved Remedial Investigation (RI) Sampling and Analysis Plan (SAP) prepared by O'Brien & Gere, dated February 2000.

### **2.2. Drilling and well installation program**

To further evaluate the hydrogeologic setting at the Site, a monitoring well installation program was implemented. Between November 2 and November 17, a total of four permanent overburden groundwater monitoring wells, two temporary overburden groundwater monitoring wells and five permanent bedrock groundwater monitoring wells, four shallow and one intermediate, were installed on the Site. The monitoring well locations are shown on Figure 1. Parratt-Wolff, Inc. of East Syracuse, New York performed the drilling and well installation activities under the supervision of an O'Brien & Gere geologist.

#### **2.2.1. Shallow unconsolidated unit drilling procedures**

Soil borings were advanced through the unconsolidated deposits to the top of the glacial till unit using 4¼-inch ID hollow stem auger drilling techniques. Continuous split-barrel soil samples were collected at two foot intervals in accordance with American Society for Testing and Materials (ASTM) Method D-1586 during well installation from depth intervals where no previous soil borings existed or samples collected during previously completed phases of the Site investigation.

Following advancement of the hollow-stem auger to the appropriate sampling depth, the split barrel sampler was lowered to the bottom of the boring and driven into the undisturbed soil using a 140-pound hammer with a 30-in drop. A representative sample of the split-spoon was then transferred to a clear glass container, sealed with aluminum foil, and capped for later headspace analysis with a PID for total VOCs.

Upon recovery, soil samples were classified in the field by a supervising geologist using the Modified Burmister and Unified Classification Systems. In addition to logging the geologic descriptions, observations including soil sample texture, composition, color, consistency, moisture content, sample recovery, and the observance of noticeable odors or stains were recorded by the geologist. Samples with a sustained PID reading above 100 parts per million (ppm) were field screened for the presence of NAPL using UV fluorescence and a soil jar shake test.

Table 1 is a summary of the soil boring information, including ground surface elevations, top of till and top of bedrock data. For detailed information, refer to the soil boring logs presented in Appendix A.

### **2.2.2. Shallow bedrock drilling procedures**

Shallow bedrock monitoring wells were installed by initially advancing the soil boring to the top of the bedrock unit using 4¼-inch ID hollow stem augers followed by the installation of a 6-inch temporary casing. The borehole was further advanced a minimum of three feet into the bedrock unit, creating a rock socket, by advancing the augers into the top of the weathered zone or by utilizing rotary drilling techniques. The top of bedrock was identified by split-barrel sampler refusal and/or hollow stem auger refusal. At intermediate bedrock monitoring well MW-4C, the rock socket extended 13.0 feet into the top of bedrock to seal off the shallow bedrock zone prior to drilling and installation of the intermediate bedrock well.

A four-inch ID casing was lowered into the borehole and tapped into place to seat the casing into the bedrock socket. A cement-bentonite grout was tremied into the annulus between the outside of the casing and the borehole. As the grout was pumped into the annulus, the tremie pipe was kept within the grout as it was placed so that a continuous annular seal was achieved. The cement grout was allowed to cure overnight. The shallow bedrock wells were drilled within the four-inch ID casing using a 3-7/8-inch outside diameter (OD) diamond core bit (HX).

Test boring and rock coring logs that describe the subsurface materials encountered in each boring were prepared by the supervising geologist for each of the bedrock wells. Information for these boreholes are presented on the soil boring and core logs in Appendix A.

### **2.2.3. Well installation**

Monitoring wells were constructed of 2-inch ID, flush joint, schedule 40 PVC riser pipe with either a five or ten-foot length of 0.010-in slot PVC well screen. Each new shallow unconsolidated unit monitoring well (MW-13S, MW-14S, MW-15S and MW-16S) has five feet of well screen and was constructed such that the base of the well screen was set just above the top of the glacial till unit. Each new shallow bedrock monitoring well (MW-3B, MW-5B, MW-6B and MW-16B) was completed with ten feet of well screen set from approximately three to thirteen feet below the top of the bedrock surface. Intermediate bedrock monitoring well MW-4C has ten feet of well screen set from approximately 12.7 to 22.7 feet below the top of the bedrock surface. Temporary monitoring wells (TMW-1 and TMW-2) were constructed of either 1-inch or 2-inch ID, flush joint, Schedule 40 PVC riser pipe with a two foot length of 0.010-inch slot well screen set just above the top of the glacial till unit.

A threaded PVC bottom plug was installed at the base of each ground water monitoring well and a vented, non-threaded, locking J-Plug was installed at the top of each riser pipe. A designated measuring point was notched into the top of the PVC riser pipe in each well to provide a permanent reference point for subsequent total depth and depth to water measurements.

After installing the PVC well materials within each borehole, sand was gradually introduced inside the augers to fill the annular space between the well screen and the borehole. The sand pack extended from the bottom of the boring to approximately two-feet above the top of the screen. The sand pack consists of a clean, well-graded, silica sand with grain size distribution matched to the slot size of the screen. A Morie Grade 0 sand was used.

In the permanent monitoring wells, a bentonite seal was placed above the sand pack to form a seal at least two feet thick. A cement-bentonite grout extended from the top of the bentonite seal to the ground surface. The grout material consisted of Type I Portland cement mixed with either a

powdered or granular bentonite prepared in accordance with ASTM D 5092-90. The grout was placed via a tremie pipe that was kept within the grout as it was placed so that a continuous annular seal was achieved. Each of the temporary monitoring wells were backfilled with overburden soils from the top of the sand pack to ground surface.

In most areas, it was necessary to provide flush mounted casings on the monitoring wells. Monitoring wells MW-6B, MW-13S, MW-14S and MW-15S have a steel casing equipped with a locking cap placed over the monitoring well. The protective casing extended at least two feet below ground surface (bgs) and was cemented in place. The shallow bedrock monitoring wells have a lockable cap installed on top of the four-inch casing grouted into place initially. Table 2 is a summary of the monitoring well construction and survey data, including ground surface and measuring point elevations, screened intervals, and sand pack intervals. For detailed information, refer to the well completion logs provided in Appendix B.

#### **2.2.4. Decontamination procedures**

During the drilling program, decontamination procedures as described in the SAP were followed so that potential contaminants were not introduced into the borehole or transferred across the Site. A temporary decontamination pad was constructed at a location approved by Parker-Hannifin. Prior to drilling the first boring, the equipment used for drilling and well installation was steam cleaned to remove possible contaminants that may have been encountered during mobilization of drilling equipment to the Site. Equipment which came into contact with Site soil, as well as drilling tools, augers, drilling rod, hoses, and the rear of the drill rig underwent the initial steam cleaning process. While working at the Site, all drilling equipment coming in contact with soil was decontaminated between drilling locations. At the conclusion of the drilling program, the drilling equipment was decontaminated a final time prior to leaving the Site.

All well construction materials were transported to the Site in factory-sealed plastic. If well construction materials were not sealed, they were decontaminated and maintained in plastic sheeting on-site.

The cleaning process involved the use of a high-pressure steam cleaner. Potable water was used for decontamination and drilling procedures. Decontamination water was collected and stored for subsequent characterization and off-site disposal in accordance with the SAP.

#### **2.2.5. Well development**

Following the completion of the monitoring well installation program, each monitoring well was developed prior to ground water sampling. Each newly-constructed monitoring well was developed to:

- Remove fine-grained materials from the sand pack and formation;
- Reduce the turbidity of ground water samples; and
- Increase the yield of the well to ensure a sufficient volume of water was available during ground water sampling.

The monitoring wells were developed as soon as possible, but not less than 24 hours after installation. All ground water and solids produced during well development were managed as described in the SAP. The wells were developed using the procedures presented in the SAP.

Well development included the removal of ground water from the well to remove residual drilling materials and establish an effective hydraulic connection between the screened interval and the formation. The goals for development was to obtain ground water in which the pH, temperature and specific conductivity had stabilized and exhibited a turbidity of less than or equal to 50 Nephelometric Turbidity Units (NTUs). Independent of the field parameters, a minimum of five well volumes was removed during well development. Due to the required management of Site ground water, if the aforementioned field parameters could not be obtained, well development continued until an amount of ground water equivalent to ten well volumes was removed.

### **2.3. Soil and ground water sampling**

As requested by NYSDEC, one soil sample was collected from boring MW-6B using an encore sampler. The sample was collected from the unsaturated zone from a depth of four to six feet below grade and submitted to the laboratory for VOC analysis using USEPA SW-846 8260B.

Ground water samples were collected between November 28 and December 7, 2006 from each of the accessible monitoring wells in accordance with the RI SAP. Prior to the collection of ground water samples, static water levels were measured to the nearest 0.01-ft in each monitoring well. Care was taken to disturb only the upper portion of the water column to avoid re-suspending settled solids in the wells. Water level measurements were performed as described in Section 2.4 .

Ground water samples were collected using low-flow well purging techniques in accordance with the RI SAP. The ground water samples were analyzed for VOCs using USEPA SW-846 8260B. In addition, the following natural attenuation parameters were also analyzed: methane, ethane, ethene, dissolved organic carbon, alkalinity, chloride, nitrate, nitrite, nitrogen, sodium, sulfate and sulfide. The following field parameters were measured at the time of sample collection and recorded on the field data sheets: iron II (Fe+2); redox potential; temperature; turbidity; dissolved oxygen; and, pH. New nitrile gloves were donned prior to collection of each ground water sample. Chain-of-custody documentation was maintained daily following procedures outlined in the NYSDEC-approved SAP.

The purge water was transferred from each well in 55-gallon steel drums and subsequently containerized in a 1000-gallon polyethylene tank and staged at the Site. The sample containers were labeled with the sample identification, date, time, project identification, and required laboratory analysis. The same information was recorded on the field data sheets. Each ground water sample was then placed in a cooler containing wet ice immediately after sampling.

The ground water samples were submitted to Accutest Laboratories of Dayton New Jersey for analysis. Field QA/QC procedures included the collection of blind field duplicate and MS/MSD samples at a rate of one per twenty environmental samples. Trip blanks were included with each cooler that contained samples for VOC analysis.

## 2.4. Water level monitoring

As discussed above, a synoptic water level round was collected from each of the Site's monitoring wells and staff gauges on November 28, 2006 prior to the ground water sampling event. The water level elevation data are presented in Table 3.

Water level measurements were obtained with an electronic water level indicator. The electronic water level measurement method involves lowering a probe into a well, which, upon contact with the water, completes an electric circuit. At the instant the circuit is closed, the water level indicator provides an audible and/or visual alarm, which indicates that the water has been contacted. The depth to water was measured to the nearest 0.01 foot, using the marked measuring point on the monitoring well riser pipe or casing as a reference. Depth to water measurements were recorded on the field form. Nitrile gloves were worn during water level measurement activities.

## 2.5. Hydraulic conductivity testing

In-situ hydraulic conductivity tests were performed on the newly installed monitoring wells to estimate the hydraulic conductivity of the geologic materials immediately surrounding each well. These tests, commonly referred to as slug tests, involved monitoring the recovery of water levels toward an equilibrium level after an initial perturbation. The perturbation was either a sudden rise or fall in the water level that corresponded to either the addition or removal of a physical slug respectively. During the slug test, either a five foot inert rod or a volume of deionized water was rapidly introduced into the well causing the water level to rise (falling head test). During a rising head test, a five foot inert rod was rapidly removed from the well causing the water level to drop.

Prior to conducting the tests, background water levels were collected manually and digitally using an In-Situ, Inc. mini-troll down-hole pressure transducer equipped with a data logger. The instruments were lowered into the well five to ten feet below the ground water surface and secured by attaching the transducer cable to the well casing using a stainless steel clamp. Since the addition of the data logger displaced water in the 2-in diameter monitoring wells, the water level in each well was allowed to re-equilibrate to static conditions prior to starting the test. Once the ground water recovered to the pre-disturbed level, the data logger was programmed to record the water levels on a logarithmic scale. The hydraulic conductivity tests were not considered complete until a minimum of 90% recovery was achieved. Equipment lowered into the monitoring wells was decontaminated prior to each test using a phosphate-free detergent, distilled water wash and a distilled water rinse.

Interpretation of the slug test data was performed using the Bouwer and Rice (1976) method. The principle behind the Bouwer and Rice method is that a plot of recovery data (So-St) versus time (t) theoretically follows a straight line on a semi-log plot. Horizontal hydraulic conductivity (K) is then calculated as follows:

$$K = [\ln(s_o) - \ln(s_t)] r_w^2 c \ln(r/r_w) / 2Lt$$

where:

K	=	hydraulic conductivity;
L	=	length of well screen/sand pack (intake);
t	=	time since initial displacement;



so = initial displacement in well;  
 st = displacement at time t;  
 re = equivalent radius over which head loss occurs;  
 rc = well casing radius;  
 rw = well radius (borehole);and,

$$rce = [rc^2 + n(rw^2 - rc^2)]^{1/2}$$

The Bouwer and Rice method assumes that the aquifer being evaluated is unconfined, homogeneous and isotropic. This method is most appropriate for shallow wells screened in well sorted sand below the water table, but it is also applicable to aquifers that are not in strict accordance with the assumptions stated above. Additionally, application of the above equations to bedrock wells assumes that sufficient joints and bedding planes intersect the screened interval so as to behave like a porous medium with Darcian flow. Bouwer and Rice recommend computing an equivalent casing radius (rce) to correct for the porosity of the gravel pack when the height of the static water column in the well is less than the screen length.

Table 4 summarizes the results of the hydraulic conductivity testing program. Additional details on data acquisition and analysis are presented in Appendix C.

## 2.6. Handling of Investigation Derived Waste

The supplemental RI activities produced Investigation Derived Materials (IDM) that required appropriate management procedures. The various IDM included drill cuttings, ground water, drilling and sampling equipment decontamination fluids, sediments, and personnel protective equipment (PPE). The handling procedures for the IDM are discussed below.

### 2.4.1. Drill Cuttings

Drill cuttings derived from the overburden and bedrock drilling were placed in 55-gallons steel drums. Each drum was labeled with the appropriate borehole identification(s), the dates on which the cuttings were generated, and a description of the type of waste (i.e., drill cuttings). In accordance with the NYSDEC-approved RI/FS Work Plan, Parker-Hannifin arranged for or will be arranging for the off-site disposal of the drill cuttings at a permitted facility.

### 2.4.2. Ground Water

Ground water produced during purging and sampling activities was containerized in 1000-gallon polyethylene tank located on-site. Based on the analytical results from the investigation, Parker-Hannifin arranged for or will be arranging for the final disposal of the ground water in accordance with the NYSDEC-approved RI/FS Work Plan.

### 2.4.3. Decontamination Fluids, Sediment, PPE and Associated Debris

Liquid/solid mixtures generated during the field investigation were temporarily stored in 55-gallon drums until solids had settled. The water was then transferred into the 1000-gallon polyethylene tank located on Site. The settled solids were also transferred into drums containing similar materials, labeled and temporarily stored on Site. In accordance with the NYSDEC-approved RI/FS Work Plan, Parker-Hannifin arranged for or will be arranging for the characterization and subsequent off-site disposal of this IDM.

Used PPE and other associated debris (polyethylene sheeting, sample tubing, etc.) were containerized in 55-gallon steel drums, labeled and temporarily stored on-site. In accordance with NYSDEC-approved RI/FS Work Plan, Parker-Hannifin performed characterization and subsequent off-site disposal of these materials.



### 3. Geology and hydrogeology

#### 3.1. Geologic conditions

With the exception of fill, unconsolidated deposits of glacial origin overlie the bedrock throughout most of the Site. Based on the soil borings completed during the RI and subsequent supplemental investigations, the combined maximum thickness of the unconsolidated deposits is approximately 31 feet. Three types of unconsolidated deposits have been identified at the Site. These consist of, in descending order: artificial fill material, glaciofluvial channel deposits, and glacial till. The fill material was encountered across the majority of the Site and ranged in thickness from 0.5 to 9 feet. The maximum thickness of the glaciofluvial deposits is 23 feet at location GP-36 which is located near the southern portion of the Site and appears to pinch-out in the area surrounding the manufacturing building and in the southeastern parking lot. The thickness of the glacial till deposit ranges from 3.5 to 27.2 feet across the majority of the Site and is thickest at location MW-7B which is located west of the former Barge Canal turnaround. The glacial till unit appears to be absent beneath the glaciofluvial channel at locations MW-8S, GP-13, GP-25 and GP-34, which are located along the western portion of the Site. The glacial till unit is observed again along the westernmost property boundary. The depths to bedrock observed during the RI and subsequent supplemental investigations ranged from 16.5 to 31 feet bgs.

The three geologic cross-sections previously presented in the RI Report (O'Brien & Gere, November 24, 2003) have been updated based on the results of the supplemental investigations performed at the Site to illustrate the relationship between the unconsolidated glacial deposits and the underlying bedrock. The location and orientation of the cross-sections are shown on Figure 2. Figure 3 illustrates cross-section (A-A') starting at well pair MW-12, located on the south side of the Clyde River, extending north to monitoring well MW-8S located northwest of the manufacturing building. Figure 4 shows cross-section (B-B') starting at soil boring GP-42/monitoring well MW-9S, located in the northwestern portion of the Site, running eastward to monitoring well MW-2S/2B located just east of the manufacturing building. Cross-section (C-C') starting at soil boring GP-35/monitoring well pair MW-5, located in the southwestern portion of the Site, continuing eastward along the southern property line to well EMW-5 is illustrated on Figure 5.

A summary of the stratigraphic information generated during the RI and supplemental investigations at the Site is presented in Table 1. The top of low permeability unit and the top of bedrock unit contour maps have been updated to include the additional stratigraphic information and are presented as Figures 6 and 7, respectively.

#### 3.2. Hydrogeologic conditions

A conceptual hydrogeologic model for the Site has been developed and includes two hydrogeologic units: the shallow unconsolidated unit and the shallow bedrock unit. The shallow unconsolidated unit is composed of fill material and glaciofluvial deposits and has a thickness ranging from 1.0 to 29.2 feet. The shallow bedrock hydrogeologic unit at the Site is part of the Syracuse-Camillus Formation and consists of interbedded shale and limestone. The depth to the top of the shallow bedrock hydrogeologic unit ranges from 16.5 to 31 feet bgs.

As discussed in Section 2.4, prior to the ground water sampling event, ground water and surface water elevation data were obtained from all accessible monitoring locations. Based on the ground water elevation data obtained on November 28, 2006, contour maps of the potentiometric surface in the overburden and shallow bedrock units have been prepared to confirm the general ground water flow direction at the Site. As shown on Figure 8, ground water flow in the western and central portions of the Site is generally to the west toward a buried channel deposit and to the south toward the Clyde River. Ground water in the southeastern margin of the Site flows to the south-southwest toward the Clyde River and does not appear to be influenced by the buried channel. As shown on Figure 9, in the areas north of the Clyde River, ground water flow within the shallow bedrock unit is generally to the southwest and occurs principally through secondary porosity features such as fractures, joints and bedding planes. South of the Clyde River, shallow bedrock ground water flow is generally to the northeast. These ground water flow directions are consistent with historical data presented in previous reports.

## 4. Results

The analytical results for the soil sample and ground water samples collected during this supplemental investigation are presented in the following sections.

### 4.1. Soil Sampling Results

As discussed in Section 2.3, one soil sample, designated as SB6B(4-6), was collected from boring MW-6B using an encore sampler on November 15, 2006. The sample was collected from the unsaturated zone at a depth of 4 to 6 feet below grade and submitted to the laboratory for VOC analysis.

Table 5 presents the results of the laboratory analysis of soil sample SB6B(4-6). As shown on Table 5, VOCs detected in this sample include cis-1,2-DCE at an estimated concentration of 83.0J ug/kg, and toluene at a concentration of 71.5 ug/kg. No other VOCs were detected in the sample obtained from this location. The laboratory reporting forms for the soil analyses are provided in Appendix D.

### 4.2. Ground Water Sampling Results

Ground water samples were collected from twenty-two overburden monitoring wells (twenty permanent and two temporary wells) and eleven bedrock monitoring wells between November 28 and December 7, 2006 and analyzed for VOCs using USEPA Method SW-846 8260B. Ground water samples were also collected and analyzed for the following natural attenuation parameters and inorganic parameters: methane; ethane; ethene; dissolved organic carbon; alkalinity; chloride; nitrate; nitrite; nitrogen; sodium; sulfate; and, sulfide. The following field parameters were also measured at the time of sample collection and recorded on the field data sheets: iron II (Fe+2); redox potential; temperature; turbidity; dissolved oxygen; and, pH.

The results of the laboratory analyzed ground water samples for VOCs and MNA and inorganic parameters are presented on Tables 6 and 7, respectively. The field parameters measured at the time of sample collection are summarized on Table 8. Laboratory reporting forms from the ground water quality analyses are provided in Appendix E.

The results of the ground water sampling conducted at the Site confirm the findings of the RI and support the conclusion that the extent of the dissolved phase VOC contamination has been defined. As shown on Table 6, very low or non-detectable concentrations of VOCs were detected in ground water samples obtained from background locations east of the manufacturing building (MW-2S, MW-2B, TMW-1 and TMW-2), in the southeastern portion of the Site (EMW-3, EMW-5 and MW-3S), in the northwestern portion of the Site (MW-8S and MW-9S) and in the area located west and southwest of the barge canal turnaround (MW-5S, MW-5B, MW-7S and MW-7B). In addition, no contaminants of concern were detected in any of the samples collected from the wells located on the south side of the Clyde River (MW-10B, MW-11S, MW-11B, MW-12S and MW-12B).

Very low concentrations of VOCs were detected in ground water samples obtained from wells located in the area south of the manufacturing building (MW-1, MW-16S and MW-16B). Elevated concentrations of VOCs occur in the areas west of the manufacturing building (MW-1S and MW-13S) and southwest of the manufacturing building, near the acid shed and the former acid tank (MW-

6S and MW-6B), and the filled in portion of the former barge turnaround (MW-14S and MW-15S). Elevated concentrations of VOCs were also detected in shallow bedrock wells MW-3B and MW-4B, located just south of the former barge canal. The vertical extent of VOC concentrations in bedrock were also defined. As shown on Table 6, no contaminants of concern were detected in the ground water sample collected from intermediate bedrock well MW-4C. The highest VOC concentrations were generally detected in the overburden located in the vicinity of the former barge turnaround and in shallow bedrock near the confluence with the Old Erie Canal.

The VOCs most often detected at the Site are cis-1,2-DCE and vinyl chloride. Given that cis-1,2-DCE and vinyl chloride are known biodegradation products of TCE, this data indicates that natural attenuation is actively occurring at the Site. In addition, the concentrations of these degradation products are typically much greater than those of TCE indicating that much of the parent product has already been biodegraded.

## 5. Summary

The Old Erie Canal Site supplemental ground water investigation was implemented to address comments to the FS Report for the Old Erie Canal Site provided by the NYSDEC in a March 1, 2006 letter.

The results of the soil sampling conducted at location MW-6B indicate that low level concentrations of VOCs were detected in shallow unconsolidated soils. However, these data and the results of DNAPL field screening performed during the drilling program indicate that no DNAPL source areas were identified.

The results of the ground water sampling conducted at the Site are consistent with historical sampling events indicating that the primary VOCs detected at the Site are TCE and its degradation products (i.e., cis-1,2-DCE and vinyl chloride), toluene, and xylenes. Other VOCs detected during the RI and supplemental investigations were generally detected at the same locations as the primary VOCs and at lower concentrations.

The results of the supplemental investigation support the conclusions of the RI that the extent of the dissolved phase VOC contamination has been defined and that the lateral migration of VOCs at the Site appears to be controlled by the surface topography of the glacial till unit. Very low or non-detectable concentrations of VOCs were detected in ground water samples obtained from background locations east of the manufacturing building, in the southeastern portion of the Site, in the northwestern portion of the Site and in the area located west and southwest of the barge canal turnaround. In addition, no contaminants of concern were detected in any of the samples collected from the wells located on the south side of the Clyde River.

Very low concentrations of VOCs were detected in ground water samples obtained from wells located in the area south of the manufacturing building. Elevated concentrations of VOCs occur in the areas west and southwest of the manufacturing building, near the acid shed and the former acid tank area and in the filled in portion of the former barge turnaround. Elevated concentrations of VOCs were also detected in two of the three shallow bedrock wells located just south of the former barge canal. The vertical extent of VOCs in bedrock were defined based on the ground water results from intermediate bedrock well MW-4C in which no contaminants of concern were detected. Consistent with historical results, the highest VOC concentrations are observed in the vicinity of the former barge turnaround and its confluence with the Old Erie Canal.

The results of the MNA and inorganic parameter analyses continue to indicate that natural processes are attenuating the VOCs in groundwater at the Site. The primary pathway for natural attenuation appears to be biodegradation. The biological processes involve the transformation of higher chlorinated organic compounds to less chlorinated organic compounds (daughter products) and ultimately to innocuous end products (e.g. ethane and ethene) via reductive dechlorination. In addition, physical processes including advection, dispersion, sorption, and volatilization may also be contributing to the overall attenuation.

Evidence of microbial mediated degradation is supported by the presence of both daughter products and end products. TCE concentrations at the Site are generally low in comparison to the concentrations of DCE and vinyl chloride and ethene and ethane are present in groundwater at the Site.

Geochemical evidence that indicates subsurface conditions amenable for microbially mediated degradation include the following:

- An abundance of dissolved TOC that can be utilized as a carbon source (electron donor) by microbes.
- Depleted dissolved oxygen and nitrate levels and elevated ferrous iron concentrations, indicating that anaerobic conditions exist across the Site.
- The presence of methane, suggesting that highly reducing conditions are present, supportive of the reductive dechlorination of TCE and its daughter compounds to innocuous end products.

## References

- Conestoga-Rovers & Associates (CRA). 2005. *Feasibility Study. Old Erie Canal Site, Clyde, New York*. Prepared for: Parker Hannifin Corporation, Cleveland, Ohio and General Electric Company, Albany, New York.
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- O'Brien & Gere Engineers, Inc. (O'Brien & Gere). 2003. *Remedial Investigation Report. Old Erie Canal Site, Clyde, New York*. Prepared for: Parker Hannifin Corporation, Cleveland, Ohio and General Electric Company, Albany, New York. November 24, 2003.





**Table 1**  
**Soil Boring Summary**

**Old Erie Canal Site**  
**Clyde, New York**

<b>Boring No.</b>	<b>Date Completed</b>	<b>Ground Elevation</b>	<b>Boring Depth</b>	<b>End of Boring Elevation</b>	<b>Depth To Glacial Till</b>	<b>Top of Glacial Till Elevation</b>	<b>Depth To Bedrock</b>	<b>Top of Bedrock Elevation</b>
MW-1S	05/30/02	394.6	8.0	386.6	7.0	387.6	----	----
MW-2S	05/21/02	398.5	11.7	386.8	---	---	----	----
MW-2B	05/29/02	398.4	28.5	369.9	12.3	386.1	16.5	381.9
MW-3S	05/21/02	394.0	11.5	382.5	10.5	383.5	----	----
MW-3B	11/16/06	394.2	39.0	355.2	10.5	383.7	25.0	369.2
MW-4S	05/22/02	393.3	20.3	373.0	20.0	373.3	----	----
MW-4B	05/28/02	393.3	38.9	354.4	20.0	373.3	26.0	367.3
MW-4C	11/17/06	393.3	50.0	343.3	20.0	373.3	26.0	367.3
MW-5S	05/21/02	393.1	11.4	381.7	10.0	383.1	----	----
MW-5B	11/16/06	393.2	39.0	354.2	10.0	383.2	25.9	367.3
MW-6S	05/30/02	395.0	15.0	380.0	15.0	380.0	----	----
MW-6B	11/15/06	395.1	39.0	356.1	10.0	385.1	25.9	369.2
MW-7S	05/24/02	394.9	17.0	377.9	16.3	378.6	----	----
MW-7B	05/28/02	397.4	39.5	357.9	1.0	396.4	28.2	369.2
MW-8S	05/29/02	390.3	22.0	368.3	----	----	21.5	368.8
MW-9S	05/22/02	391.8	17.5	374.3	17.0	374.8	----	----
MW-10B	11/25/02	391.2	42.7	348.5	17.5	373.7	29.0	362.2
MW-11S	11/20/02	390.4	12.0	378.4	11.0	379.4	----	----
MW-11B	11/25/02	389.8	44.0	345.8	11.0	378.8	30.8	359.0
MW-12S	11/22/02	391.1	10.0	381.1	10.0	381.1	----	----
MW-12B	11/22/02	391.4	45.0	346.4	10.0	381.4	31.0	360.4
MW-13S	11/02/06	389.7	20.0	369.7	17.5	372.2	----	----
MW-14S	11/06/06	389.3	22.5	366.8	22.5	366.8	----	----
MW-15S	11/07/06	388.4	14.0	374.4	14.0	374.4	----	----
MW-16S	11/02/06	398.0	10.0	388.0	4.0	394.0	----	----
MW-16B	11/15/06	398.2	44.0	354.2	9.0	389.2	31.0	367.2
EMW-1	10/14/94	394.6	32.0	362.6	10.0	384.6	25.2	369.4
EMW-2	10/17/94	395.0	12.0	383.0	8.0	387.0	----	----
EMW-3	10/14/94	394.2	12.3	381.9	----	----	----	----
EMW-4	10/18/94	392.9	12.0	380.9	8.5	384.4	----	----
EMW-5	10/17/94	393.0	12.0	381.0	10.5	382.5	----	----

**Notes:**

1. All depths in feet below ground surface.
2. All elevations in feet above mean sea level and measured in NGVD 1929.
3. NE indicates not encountered.

**Table 1**  
**Soil Boring Summary**

**Old Erie Canal Site**  
**Clyde, New York**

<b>Boring No.</b>	<b>Date Completed</b>	<b>Ground Elevation</b>	<b>Boring Depth</b>	<b>End of Boring Elevation</b>	<b>Depth To Glacial Till</b>	<b>Top of Glacial Till Elevation</b>	<b>Depth To Bedrock</b>	<b>Top of Bedrock Elevation</b>
GP-1	04/24/02	397.6	6.5	391.1	5.0	392.6	----	----
GP-2	04/24/02	397.7	6.5	391.2	6.3	391.5	----	----
GP-3	04/24/02	397.7	4.0	393.7	3.5	394.2	----	----
GP-4	04/23/02	391.7	18.0	373.7	17.0	374.7	----	----
GP-5	04/24/02	393.7	8.0	385.7	7.0	386.7	----	----
GP-6	04/24/02	396.2	6.0	390.2	5.0	391.2	----	----
GP-7	04/24/02	397.9	4.0	393.9	3.5	394.4	----	----
GP-8	04/23/02	389.5	10.5	379.0	9.8	379.7	----	----
GP-9	04/25/02	395.6	9.0	386.6	6.0	389.6	----	----
GP-10	04/23/02	389.7	18.5	371.2	17.5	372.2	----	----
GP-11	04/26/02	390.5	10.0	380.5	7.5	383.0	----	----
GP-12	04/25/02	396.0	11.0	385.0	7.0	389.0	----	----
GP-13	04/29/02	389.3	20.0	369.3	----	----	19.0	370.3
GP-14	04/25/02	394.6	13.5	381.1	10.5	384.1	----	----
GP-15	04/24/02	396.8	11.0	385.8	7.0	389.8	----	----
GP-16	04/24/02	398.2	12.0	386.2	7.8	390.4	----	----
GP-17	04/24/02	398.0	4.0	394.0	3.5	394.5	----	----
GP-18	04/23/02	391.1	13.0	378.1	12.0	379.1	----	----
GP-19	04/29/02	389.3	20.0	369.3	15.5	373.8	19.0	370.3
GP-20	05/01/02	395.0	16.0	379.0	15.0	380.0	----	----
GP-21	04/25/02	397.4	10.5	386.9	6.0	391.4	----	----
GP-22	04/24/02	397.8	4.0	393.8	3.8	394.0	----	----
GP-23	04/24/02	398.1	8.0	390.1	7.0	391.1	----	----
GP-24	04/23/02	393.7	20.0	373.7	19.0	374.7	----	----
GP-25	04/26/02	389.2	22.0	367.2	----	----	21.0	368.2
GP-26	04/26/02	395.4	16.0	379.4	13.0	382.4	----	----
GP-27	04/25/02	396.6	10.0	386.6	6.5	390.1	----	----
GP-28	04/30/02	394.2	24.0	370.2	22.5	371.7	----	----
GP-29	04/25/02	395.8	12.0	383.8	9.5	386.3	----	----
GP-30	04/25/02	396.9	8.0	388.9	3.7	393.2	----	----
GP-31	04/23/02	394.9	17.0	377.9	16.5	378.4	----	----
GP-32	04/23/02	389.4	22.0	367.4	21.5	367.9	----	----
GP-33	04/30/02	394.4	16.0	378.4	15.0	379.4	----	----
GP-34	05/01/02	395.2	29.2	366.0	----	----	29.2	366.0
GP-35	05/22/02	393.3	11.0	382.3	10.0	383.3	----	----

**Notes:**

1. All depths in feet below ground surface.
2. All elevations in feet above mean sea level and measured in NGVD 1929.
3. NE indicates not encountered.

# Table 1 Soil Boring Summary

## Old Erie Canal Site Clyde, New York

Boring No.	Date Completed	Ground Elevation	Boring Depth	End of Boring Elevation	Depth To Glacial Till	Top of Glacial Till Elevation	Depth To Bedrock	Top of Bedrock Elevation
GP-36	04/22/02	393.2	24.0	369.2	23.0	370.2	----	----
GP-37	04/22/02	393.8	20.0	373.8	16.5	377.3	----	----
GP-38	04/22/02	394.1	12.0	382.1	11.0	383.1	----	----
GP-39	04/22/02	393.5	12.0	381.5	10.2	383.3	----	----
GP-40	05/01/02	398.2	7.0	391.2	3.0	395.2	----	----
GP-41	05/01/02	398.1	4.0	394.1	2.0	396.1	----	----
GP-42	05/01/02	391.8	20.0	371.8	17.0	374.8	----	----
GP-43	05/02/02	391.0	20.5	370.5	----	----	20.5	370.5
GP-44	05/02/02	395.4	8.0	387.4	3.0	392.4	----	----
GP-45	11/19/02	398.0	9.0	389.0	8.6	389.4	----	----
GP-46	11/19/02	398.1	8.5	389.6	8.5	389.6	----	----
GP-47	11/19/02	398.5	5.0	393.5	4.6	393.9	----	----
GP-48	11/20/02	396.2	10.2	386.0	6.5	389.7	----	----
GP-49	11/19/02	397.9	10.5	387.4	5.0	392.9	----	----
GP-50	11/19/02	398.3	6.0	392.3	6.0	392.3	----	----
GP-51	11/20/02	396.2	10.1	386.1	8.0	388.2	----	----
GP-52	11/19/02	397.9	10.5	387.4	4.0	393.9	----	----
GP-53	11/19/02	398.1	7.0	391.1	7.0	391.1	----	----
GP-54	11/19/02	398.0	6.0	392.0	6.0	392.0	----	----
GP-55	11/19/02	398.1	8.2	389.9	4.7	393.4	----	----
GP-56	11/20/02	396.2	12.6	383.6	9.5	386.7	----	----
GP-57	11/20/02	397.7	6.0	391.7	4.0	393.7	----	----
GP-58	11/20/02	398.2	7.5	390.7	5.2	393.0	----	----
GP-59	11/20/02	393.1	10.0	383.1	8.0	385.1	----	----
GP-60	11/20/02	393.3	17.0	376.3	16.8	376.5	----	----
GP-61	11/20/02	393.7	11.5	382.2	6.0	387.7	----	----
GP-1A	08/02/04	390.0	20.0	370.0	15.0	375.0	----	----
GP-2A	08/02/04	391.8	20.0	371.8	----	----	----	----
GP-3A	08/02/04	391.0	12.0	379.0	----	----	----	----
GP-4A	08/02/04	391.7	8.0	383.7	5.0	386.7	----	----
GP-5A	08/02/04	395.4	5.0	390.4	2.0	393.4	----	----
GP-6A	08/02/04	397.6	7.0	390.6	5.5	392.1	----	----
GP-7A	08/02/04	397.7	8.0	389.7	7.8	389.9	----	----

### Notes:

1. All depths in feet below ground surface.
2. All elevations in feet above mean sea level and measured in NGVD 1929.
3. NE indicates not encountered.

# Table 1 Soil Boring Summary

## Old Erie Canal Site Clyde, New York

Boring No.	Date Completed	Ground Elevation	Boring Depth	End of Boring Elevation	Depth To Glacial Till	Top of Glacial Till Elevation	Depth To Bedrock	Top of Bedrock Elevation
SSB-1	1/14/2005	398.11	6	392.1	4.1	394.0	----	----
SSB-2	1/14/2005	398.11	5.7	392.4	4.3	393.8	----	----
SSB-3	1/14/2005	398.11	7.9	390.2	7.9	390.2	----	----
SSB-4	1/14/2005	398.11	5.8	392.3	5.8	392.3	----	----
SSB-5	1/14/2005	398.11	7.3	390.8	4.5	393.6	----	----
SSB-6	1/13/2005	398.11	7.8	390.3	7.1	391.0	----	----
SSB-7	1/12/2005	398.11	9.3	388.8	9.3	388.8	----	----
SSB-8	1/13/2005	398.11	9.3	388.8	9.3	388.8	----	----
SSB-9	1/13/2005	398.11	6.2	391.9	5	393.1	----	----
SSB-10	1/13/2005	398.11	6.8	391.3	4.2	393.9	----	----
SSB-11	1/13/2005	398.11	5.8	392.3	4.2	393.9	----	----
TMW-1	11/3/2006	398.09	14.0	384.1	13.0	385.1	----	----
TMW-2	11/3/2006	398.82	6.0	392.8	5.5	393.3	----	----

### Notes:

1. All depths in feet below ground surface.
2. All elevations in feet above mean sea level and measured in NGVD 1929.
3. "----" indicates not encountered.

## Table 2 Monitoring Well Construction Details

**Old Erie Canal Site  
Clyde, New York**

Well No.	Date Completed	PVC Measuring Point Elev.	Ground Elevation	Screen Length	Screen Depth		Screen Elevation		Sand Pack Depth		Sand Pack Elevation	
					Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
MW-1S	05/30/02	394.16	394.6	5.0	2.3	7.3	392.3	387.3	2.1	8.0	392.5	386.6
MW-2S	05/21/02	397.91	398.5	10.0	1.6	11.6	396.9	386.9	1.6	11.7	396.9	386.8
MW-2B	05/29/02	398.08	398.4	10.0	18.5	28.5	379.9	369.9	16.0	28.5	382.4	369.9
MW-3S	05/21/02	393.64	394.0	10.0	1.3	11.3	392.7	382.7	1.3	11.5	392.7	382.5
MW-3B	11/16/06	393.91	394.2	10.0	28.8	38.8	365.4	355.4	27.0	39.0	367.2	355.2
MW-4S	05/22/02	393.02	393.3	10.0	10.3	20.3	383.0	373.0	8.3	20.3	385.0	373.0
MW-4B	05/28/02	392.97	393.3	10.0	28.9	38.9	364.4	354.4	26.9	38.9	366.4	354.4
MW-4C	11/17/06	392.81	393.3	10.0	38.7	48.7	354.6	344.6	38.0	50.0	355.3	343.3
MW-5S	05/21/02	392.86	393.1	10.0	1.2	11.2	391.9	381.9	1.1	38.9	392.0	354.2
MW-5B	11/16/06	392.85	393.2	10.0	29.3	39.3	363.9	353.9	27.0	39.0	366.2	354.2
MW-6S	05/30/02	394.66	395.0	10.0	5.0	15.0	390.0	380.0	3.0	15.0	392.0	380.0
MW-6B	11/15/06	396.99	395.1	10.0	29.4	39.4	365.7	355.7	27.0	39.4	368.1	355.7
MW-7S	05/24/02	396.92	394.9	10.0	6.5	16.5	388.4	378.4	5.0	17.5	389.9	377.4
MW-7B	05/28/02	399.10	397.4	10.0	28.9	38.9	368.5	358.5	26.9	38.9	370.5	358.5
MW-8S	05/29/02	389.91	390.3	10.0	12.0	22.0	378.3	368.3	10.0	22.0	380.3	368.3
MW-9S	05/22/02	391.39	391.8	10.0	7.4	17.4	384.4	374.4	5.4	17.5	386.4	374.3

**Notes:**

1. All depths in feet below ground surface.
2. All elevations in feet above mean sea level and measured in NGVD 1929.

## Table 2 Monitoring Well Construction Details

**Old Erie Canal Site  
Clyde, New York**

Well No.	Date Completed	PVC Measuring Point Elev.	Ground Elevation	Screen Length	Screen Depth		Screen Elevation		Sand Pack Depth		Sand Pack Elevation	
					Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
MW-10B	11/25/02	390.99	391.2	10.0	32.7	42.7	358.5	348.5	30.2	42.7	361.0	348.5
MW-11S	11/20/02	390.04	390.4	7.0	5.0	12.0	385.4	378.4	4.0	12.0	386.4	378.4
MW-11B	11/25/02	389.75	389.8	10.0	34.0	44.0	355.8	345.8	31.0	44.0	358.8	345.8
MW-12S	11/22/02	390.43	391.1	5.0	5.0	10.0	386.1	381.1	4.0	10.0	387.1	381.1
MW-12B	11/22/02	391.32	391.4	10.0	34.0	44.0	357.4	347.4	31.0	44.0	360.4	347.4
MW-13S	11/02/06	391.53	389.7	5.0	11.9	16.9	377.8	372.8	11.0	17.5	378.7	372.2
MW-14S	11/06/06	391.39	389.3	5.0	16.4	21.4	372.8	367.8	15.0	22.5	374.3	366.8
MW-15S	11/07/06	390.12	388.4	5.0	7.7	12.7	380.7	375.7	6.0	14.0	382.4	374.4
MW-16S	11/02/06	397.30	398.0	5.0	4.6	9.6	393.4	388.4	3.5	10.0	394.5	388.0
MW-16B	11/15/06	397.69	398.2	10.0	33.6	43.6	364.6	354.6	32.0	44.0	366.2	354.2
EMW-1	10/14/94	394.30	394.6	10.0	8.0	18.0	386.6	376.6	6.0	18.5	388.6	376.1
EMW-2	10/17/94	394.72	395.0	5.0	6.0	11.0	389.0	384.0	5.0	12.0	390.0	383.0
EMW-3	10/14/94	396.94	394.2	5.0	6.0	11.0	388.2	383.2	4.0	12.3	390.2	381.9
EMW-4	10/18/94	395.51	392.9	5.0	6.0	11.0	386.9	381.9	5.0	12.0	387.9	380.9
EMW-5	10/17/94	395.53	393.0	5.0	6.0	11.0	387.0	382.0	5.0	12.0	388.0	381.0
TMW-1	11/3/2006	399.11	398.1	2.0	10.1	12.1	388.0	386.0	8.0	14.0	390.1	384.1
TMW-2	11/3/2006	399.91	398.8	2.0	3.8	5.8	395.1	393.1	----	----	----	----

**Notes:**

1. All depths in feet below ground surface.
2. All elevations in feet above mean sea level and measured in NGVD 1929.

**Table 3**  
**Water Level Elevation Data**  
**November 28, 2006**

**Old Erie Canal Site**  
**Clyde, New York**

<b>Well No.</b>	<b>Measuring Point</b>	<b>Depth to Water</b>	<b>Water Elevation</b>
MW-1	401.43	6.86	394.57
MW-1S	394.16	4.42	389.74
MW-2S	397.91	2.93	394.98
MW-2B	398.08	3.82	394.26
MW-3S	393.64	4.34	389.30
MW-3B	393.91	8.19	385.72
MW-4S	393.02	5.20	387.82
MW-4B	392.97	6.52	386.45
MW-4C	392.81	-1.06	393.87
MW-5S	392.86	4.35	388.51
MW-5B	392.85	27.46	365.39
MW-6S	394.66	4.57	390.09
MW-6B	396.99	9.00	387.99
MW-7S	396.92	9.09	387.83
MW-7B	399.10	10.66	388.44
MW-8S	389.91	0.50	389.41
MW-9S	391.39	2.60	388.79
MW-10B	390.99	-1.16	392.15
MW-11S	390.04	3.90	386.14
MW-11B	389.75	-1.37	391.12
MW-12S	390.43	2.42	388.01
MW-12B	391.32	-1.06	392.38
MW-13S	391.53	3.12	388.41
MW-14S	391.39	3.40	387.99
MW-15S	390.12	2.19	387.93
MW-16S	397.30	2.94	394.36
MW-16B	397.69	3.88	393.81

**Notes:**

1. Water level depths in feet below ground surface.
2. All elevations in feet above mean sea level.
3. Measuring point measured in NGVD 1929.

**Table 3**  
**Water Level Elevation Data**  
**November 28, 2006**

**Old Erie Canal Site**  
**Clyde, New York**

EMW-1	394.30	Well decommissioned in 2002	
EMW-2	394.72		
		2.14	392.58
EMW-3	396.94	7.67	389.27
EMW-4	395.51	6.55	388.96
EMW-5	395.53	5.24	390.29
TMW-1	399.11	4.71	394.4
TMW-2	399.91	4.70	395.21
SG-1	390.21	0.30	389.91
SG-2	387.46	0.50	386.96
SG-3	387.99	7.91	380.08
SG-3A	391.04	7.84	383.2

**Notes:**

1. Water level depths in feet below ground surface.
2. All elevations in feet above mean sea level.
3. Measuring point measured in NGVD 1929.



# **Table 4** **Hydraulic Conductivity Testing Results** **Groundwater Monitoring**

## **Old Erie Canal Site** **Clyde, New York**

<b>Well Identification</b>	<b>Bouwer and Rice K</b>		
	<b>Estimate (cm/sec)</b>	<b>Arithmetic Mean</b>	
		<b>(cm/sec)</b>	<b>(ft/day)</b>
<b>Unconsolidated Monitoring Wells</b>			
MW-2S	3.04E-04	2.29E-03	6.48
	4.27E-03		
MW-3S	3.84E-04	5.08E-04	1.44
	6.31E-04		
MW-4S	2.59E-03	2.81E-03	7.96
	3.03E-03		
MW-5S	1.94E-03	6.92E-03	19.62
	1.20E-02		
	6.83E-03		
MW-6S	3.54E-04	3.49E-04	0.99
	3.43E-04		
MW-7S	7.22E-03	6.64E-03	18.82
	6.06E-03		
MW-8S	1.07E-03	1.07E-03	3.03
MW-9S	1.15E-04	1.15E-04	0.33
MW-11S	3.29E-03	3.29E-03	9.32
	3.29E-03		
	3.29E-03		
MW-12S	NA	NA	NA
MW-13S	4.02E-03	3.03E-03	8.59
	2.86E-03		
	2.21E-03		
MW-14S	5.35E-04	4.29E-04	1.22
	3.91E-04		
	3.62E-04		
MW-15S	1.03E-02	9.47E-03	26.84
	9.15E-03		
	8.98E-03		
MW-16S	1.69E-02	1.10E-02	31.08
	7.30E-03		
	8.72E-03		
EMW-2	1.55E-04	1.52E-04	0.43
	1.49E-04		

# **Table 4** **Hydraulic Conductivity Testing Results** **Groundwater Monitoring**

## **Old Erie Canal Site** **Clyde, New York**

Well Identification	Bouwer and Rice K		Arithmetic Mean (ft/day)
	Estimate (cm/sec)	(cm/sec)	
Unconsolidated Monitoring Wells (Continued)			
EMW-3	2.86E-03	2.67E-03	7.55
	2.47E-03		
EMW-4	5.39E-04	6.56E-04	1.86
	7.72E-04		
EMW-5	3.29E-03	3.29E-03	9.32
	3.29E-03		
TMW-1	7.88E-04	7.29E-04	2.07
	6.71E-04		
TMW-2	1.60E-02	1.35E-02	38.12
	1.09E-02		
Bedrock Monitoring Wells			
MW-2B	3.79E-06	3.79E-06	0.01
MW-3B	5.54E-06	6.33E-06	0.02
	9.03E-06		
	4.43E-06		
MW-4B	2.65E-04	3.01E-04	0.85
	3.36E-04		
MW-4C	2.35E-05	2.39E-05	0.07
	2.43E-05		
MW-5B	NA	NA	NA
MW-6B	3.07E-04	3.03E-04	0.86
	3.02E-04		
	2.99E-04		
MW-10B	1.49E-05	1.49E-05	0.04
MW-11B	1.33E-04	1.33E-04	0.38
MW-12B	NA	NA	NA
MW-16B	1.89E-07	1.89E-07	0.001

**Notes:**

1. The geometric mean hydraulic conductivity of the unconsolidated monitoring wells at the Site is 1.70E-03 (4.82 ft/day).
2. The geometric mean hydraulic conductivity of the bedrock monitoring wells at the Site is 1.93E-05 (0.05 ft/day).

## Table 5 Soil Sampling Results

### Old Erie Canal Site Clyde, New York

		Sample Date	11/15/2006
		Sample ID	SB6B(4-6)111506
		Sample Matrix	SO
CAS No	Chemical Name	Unit	
71-55-6	1,1,1-Trichloroethane	ug/kg	200 UJ
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	200 UJ
79-00-5	1,1,2-Trichloroethane	ug/kg	200 UJ
75-34-3	1,1-Dichloroethane	ug/kg	200 UJ
75-35-4	1,1-Dichloroethene	ug/kg	200 UJ
107-06-2	1,2-Dichloroethane	ug/kg	40 UJ
78-87-5	1,2-Dichloropropane	ug/kg	200 UJ
108-10-1	4-Methyl-2-pentanone	ug/kg	200 UJ
67-64-1	Acetone	ug/kg	400 UJ
71-43-2	Benzene	ug/kg	40 UJ
75-27-4	Bromodichloromethane	ug/kg	200 UJ
75-25-2	Bromoform	ug/kg	200 UJ
74-83-9	Bromomethane	ug/kg	200 UJ
75-15-0	Carbon disulfide	ug/kg	200 UJ
56-23-5	Carbon tetrachloride	ug/kg	200 UJ
108-90-7	Chlorobenzene	ug/kg	200 UJ
75-00-3	Chloroethane	ug/kg	200 UJ
67-66-3	Chloroform	ug/kg	200 UJ
74-87-3	Chloromethane	ug/kg	200 UJ
156-59-2	cis-1,2-Dichloroethene	ug/kg	<b>83.0 J</b>
10061-01-5	cis-1,3-Dichloropropene	ug/kg	200 UJ
124-48-1	Dibromochloromethane	ug/kg	200 UJ
100-41-4	Ethylbenzene	ug/kg	40 UJ
591-78-6	Methyl Butyl Ketone	ug/kg	200 UJ
78-93-3	Methyl Ethyl Ketone	ug/kg	400 UJ
75-09-2	Methylene chloride	ug/kg	200 UJ
100-42-5	Styrene	ug/kg	200 UJ
127-18-4	Tetrachloroethene	ug/kg	200 UJ
108-88-3	Toluene	ug/kg	<b>71.5 J</b>
156-60-5	trans-1,2-Dichloroethene	ug/kg	200 UJ
10061-02-6	trans-1,3-Dichloropropene	ug/kg	200 UJ
79-01-6	Trichloroethene	ug/kg	200 UJ
75-01-4	Vinyl chloride	ug/kg	200 UJ
1330-20-7	Xylene (total)	ug/kg	79 UJ

**Notes:**

1. Units expressed in ug/kg.
2. Analyses performed by Accutest Laboratories of Dayton, NJ.
3. Volatile organic compounds quantitated by EPA SW-846 Method 8260B.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.

# Table 6

## Ground Water Sampling Results

### VOCs

#### Old Erie Canal Site

#### Clyde, New York

	11/30/2006	12/1/2006	12/6/2006	12/1/2006
	GW-EMW-2-113006	GW-EMW-3-120106	GW-EMW-4-120606	GW-EMW-5-120106
Acetone	5.0 UR	5.0 UR	5.0 U	5.0 UR
Benzene	<b>0.37 J</b>	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	5.0 UR	5.0 UR	5.0 U	5.0 UR
Carbon disulfide	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	<b>1.4</b>	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	<b>0.71 J</b>	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	<b>1.1</b>	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	<b>5.7</b>	1.0 U	<b>2.2</b>	1.0 U
Xylene (total)	<b>0.57 J</b>	1.0 U	1.0 U	1.0 U
Methane	<b>1440</b>	<b>598</b>	<b>5140</b>	<b>1140</b>
Ethane	<b>340</b>	<b>0.56</b>	<b>226</b>	<b>0.25</b>
Ethene	<b>36.4</b>	0.10 U	0.10 U	0.10 U

#### Notes:

1. Units expressed in ug/L.
2. VOCs quantified using EPA Method 8260B.
3. Methane, ethane and ethene were quantified using EPA Method 8015.
3. Analyses performed by Accutest Laboratories of Dayton, NJ.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.
6. "R" indicates that the result is rejected due to low response factor in the calibration standard..

# Table 6

## Ground Water Sampling Results

### VOCs

Old Erie Canal Site  
Clyde, New York

	11/29/2006	11/29/2006	12/6/2006	11/29/2006
	GW-MW-1S-112906	GW-X-1-112906 Duplicate of MW-1S	GW-MW-1-120606	GW-MW-2S-112906
Acetone	130 UR	50 U	5.0 U	5.0 U
Benzene	25 U	10 U	1.0 U	1.0 U
Bromodichloromethane	25 U	10 U	1.0 U	1.0 U
Bromoform	25 U	10 U	1.0 U	1.0 U
Bromomethane	25 U	10 U	1.0 U	1.0 U
2-Butanone (MEK)	130 UR	50 UR	5.0 U	5.0 UR
Carbon disulfide	25 U	10 U	1.0 UJ	1.0 U
Carbon tetrachloride	25 U	10 U	1.0 U	1.0 U
Chlorobenzene	25 U	10 U	1.0 U	1.0 U
Chloroethane	25 U	10 U	1.0 U	1.0 U
Chloroform	25 U	10 U	1.0 U	1.0 U
Chloromethane	25 U	10 U	1.0 U	1.0 U
Dibromochloromethane	25 U	10 U	1.0 U	1.0 U
1,1-Dichloroethane	25 U	10 U	1.0 U	1.0 U
1,2-Dichloroethane	25 U	10 U	1.0 U	1.0 U
1,1-Dichloroethene	25 U	6.9 J	1.0 U	1.0 U
cis-1,2-Dichloroethene	3690	3240	2.2	1.0 U
trans-1,2-Dichloroethene	32.4	34.2	1.0 U	1.0 U
1,2-Dichloropropane	25 U	10 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	25 U	10 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	25 U	10 U	1.0 U	1.0 U
Ethylbenzene	25 U	10 U	1.0 U	1.0 U
2-Hexanone	130 U	50 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)	130 U	50 U	5.0 U	5.0 U
Methylene chloride	50 U	20 U	2.0 U	2.0 U
Styrene	25 U	10 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	25 U	10 U	1.0 U	1.0 U
Tetrachloroethene	11.0 J	10.6	1.0 U	1.0 U
Toluene	25 U	10 U	1.0 U	1.0 U
1,1,1-Trichloroethane	25 U	10 U	1.0 U	1.0 U
1,1,2-Trichloroethane	25 U	10 U	1.0 U	1.0 U
Trichloroethene	1110	988	0.58 J	1.0 U
Vinyl chloride	147	155	3.3	1.0 U
Xylene (total)	25 U	10 U	1.0 U	1.0 U
Methane	6.88	9.54	897	206
Ethane	7.69	11.0	10.4	0.10 U
Ethene	0.38	0.46	0.10 U	0.10 U

#### Notes:

1. Units expressed in ug/L.
2. VOCs quantified using EPA Method 8260B.
3. Methane, ethane and ethene were quantified using EPA Method 8015.
3. Analyses performed by Accutest Laboratories of Dayton, NJ.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.
6. "R" indicates that the result is rejected due to low response factor in the calibration standard..

# Table 6

## Ground Water Sampling Results

### VOCs

#### Old Erie Canal Site

#### Clyde, New York

	11/29/2006	12/5/2006	12/5/2006	12/5/2006
	GW-MW-2B-112906	GW-MW-3S-120506	GW-MW-3B-120506	GW-MW-4S-120506
Acetone	5.0 UR	5.0 U	5.0 U	5.0 U
Benzene	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	5.0 UR	5.0 UR	5.0 UR	5.0 UR
Carbon disulfide	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	<b>351</b>	<b>6.3</b>
trans-1,2-Dichloroethene	1.0 U	1.0 U	<b>5.9</b>	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	<b>0.48 J</b>	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	<b>1.4</b>	1.0 U
Vinyl chloride	1.0 U	1.0 U	<b>237</b>	<b>2.3</b>
Xylene (total)	1.0 U	1.0 U	1.0 U	1.0 U
Methane	2.98U	<b>6.12</b>	<b>24.4</b>	<b>6.43</b>
Ethane	<b>0.13</b>	0.10 U	<b>2.3</b>	<b>0.12</b>
Ethene	0.10 U	0.10 U	<b>16.2</b>	0.10 U

#### Notes:

1. Units expressed in ug/L.
2. VOCs quantified using EPA Method 8260B.
3. Methane, ethane and ethene were quantified using EPA Method 8015.
3. Analyses performed by Accutest Laboratories of Dayton, NJ.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.
6. "R" indicates that the result is rejected due to low response factor in the calibration standard..

# Table 6

## Ground Water Sampling Results

### VOCs

Old Erie Canal Site  
Clyde, New York

	12/5/2006	12/5/2006	12/5/2006	12/5/2006
	GW-MW-4B-120506	GW-MW-4C-120506	GW-X-2-120506 Duplicate of MW-4C	GW-MW-5S-120506
Acetone	500 U	5.0 U	5.0 UJ	5.0 U
Benzene	100 U	1.0 U	1.0 UJ	1.0 U
Bromodichloromethane	100 U	1.0 U	1.0 UJ	1.0 U
Bromoform	100 U	1.0 U	1.0 UJ	1.0 U
Bromomethane	100 U	1.0 U	1.0 UJ	1.0 U
2-Butanone (MEK)	500 UR	5.0 UR	5.0 UR	5.0 UR
Carbon disulfide	100 U	1.0 U	1.0 UJ	1.0 U
Carbon tetrachloride	100 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	100 U	1.0 U	1.0 UJ	1.0 U
Chloroethane	100 U	1.0 U	1.0 UJ	1.0 U
Chloroform	100 U	1.0 U	1.0 UJ	1.0 U
Chloromethane	100 U	1.0 U	1.0 UJ	1.0 U
Dibromochloromethane	100 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethane	100 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethane	100 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethene	100 U	1.0 U	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	64800	1.0 U	1.0 UJ	1.0 U
trans-1,2-Dichloroethene	130	1.0 U	1.0 UJ	1.0 U
1,2-Dichloropropane	100 U	1.0 U	1.0 UJ	1.0 U
cis-1,3-Dichloropropene	100 U	1.0 U	1.0 UJ	1.0 U
trans-1,3-Dichloropropene	100 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	100 U	1.0 U	1.0 UJ	1.0 U
2-Hexanone	500 U	5.0 U	5.0 UJ	5.0 U
4-Methyl-2-pentanone (MIBK)	500 U	5.0 U	5.0 UJ	5.0 U
Methylene chloride	200 U	2.0 U	2.0 UJ	2.0 U
Styrene	100 U	1.0 U	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	100 U	1.0 U	1.0 UJ	1.0 U
Tetrachloroethene	100 U	1.0 U	1.0 UJ	1.0 U
Toluene	100 U	1.0 U	1.0 UJ	1.0 U
1,1,1-Trichloroethane	100 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloroethane	100 U	1.0 U	1.0 UJ	1.0 U
Trichloroethene	2130	1.0 U	1.0 UJ	1.0 U
Vinyl chloride	8740	1.0 U	1.0 UJ	1.0 U
Xylene (total)	100 U	1.0 U	1.0 UJ	1.0 U
Methane	287	4.16	4.46J	21.8
Ethane	60.0	0.12	0.14J	0.10 U
Ethene	163	0.10 U	0.10 UJ	0.10 U

#### Notes:

1. Units expressed in ug/L.
2. VOCs quantified using EPA Method 8260B.
3. Methane, ethane and ethene were quantified using EPA Method 8015.
3. Analyses performed by Accutest Laboratories of Dayton, NJ.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.
6. "R" indicates that the result is rejected due to low response factor in the calibration standard..

# Table 6

## Ground Water Sampling Results

### VOCs

#### Old Erie Canal Site

#### Clyde, New York

	12/6/2006	12/6/2006	12/6/2006	12/4/2006
	GW-MW-5B-120606	GW-MW-6S-120606	GW-MW-6B-120606	GW-MW-7S-120406
Acetone	4.7 J	2500 UJ	500 U	5.0 U
Benzene	1.0 U	500 UJ	100 U	1.0 U
Bromodichloromethane	1.0 U	500 UJ	100 U	1.0 U
Bromoform	1.0 U	500 UJ	100 U	1.0 U
Bromomethane	1.0 U	500 UJ	100 U	1.0 U
2-Butanone (MEK)	5.0 U	2500 UR	500 UR	5.0 U
Carbon disulfide	1.0 UJ	500 UJ	100 UJ	1.0 UJ
Carbon tetrachloride	1.0 U	500 UJ	100 U	1.0 U
Chlorobenzene	1.0 U	500 UJ	100 U	1.0 U
Chloroethane	1.0 U	500 UJ	100 U	1.0 U
Chloroform	1.0 U	500 UJ	100 U	1.0 U
Chloromethane	1.0 U	500 UJ	100 U	1.0 U
Dibromochloromethane	1.0 U	500 UJ	100 U	1.0 U
1,1-Dichloroethane	1.0 U	500 UJ	100 U	1.0 U
1,2-Dichloroethane	1.0 U	500 UJ	100 U	1.0 U
1,1-Dichloroethene	1.0 U	500 UJ	59.3 J	0.62 J
cis-1,2-Dichloroethene	1.0 U	186000J	50400	414 J
trans-1,2-Dichloroethene	1.0 U	478 J	119	2.5
1,2-Dichloropropane	1.0 U	500 UJ	100 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	500 UJ	100 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	500 UJ	100 U	1.0 U
Ethylbenzene	1.0 U	500 UJ	100 U	1.0 U
2-Hexanone	5.0 U	2500 UJ	500 U	5.0 U
4-Methyl-2-pentanone (MIBK)	5.0 U	2500 UJ	500 U	5.0 U
Methylene chloride	2.0 U	1000 UJ	200 U	2.0 U
Styrene	1.0 U	500 UJ	100 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	500 UJ	100 U	1.0 U
Tetrachloroethene	1.0 U	500 UJ	100 U	1.0 U
Toluene	1.0 U	24900J	100 U	1.0 U
1,1,1-Trichloroethane	1.0 U	500 UJ	100 U	1.0 U
1,1,2-Trichloroethane	1.0 U	500 UJ	100 U	1.0 U
Trichloroethene	1.0 U	500 UJ	95.5 J	0.46 J
Vinyl chloride	1.0 U	73200J	1750	12.4
Xylene (total)	1.0 U	854J	100 U	1.0 U
Methane	6.97	3520J	93.0	6.28
Ethane	0.70	718J	2.0	0.10 U
Ethene	0.35	2710J	41.3	0.10 U

#### Notes:

1. Units expressed in ug/L.
2. VOCs quantified using EPA Method 8260B.
3. Methane, ethane and ethene were quantified using EPA Method 8015.
3. Analyses performed by Accutest Laboratories of Dayton, NJ.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.
6. "R" indicates that the result is rejected due to low response factor in the calibration standard..



# Table 6

## Ground Water Sampling Results

### VOCs

Old Erie Canal Site  
Clyde, New York

	12/4/2006	11/30/2006	11/30/2006	11/30/2006
	GW-MW-7B-120406	GW-MW-8S-113006	GW-MW-9S-113006	GW-MW-10B-113006
Acetone	5.0 U	5.0 UR	5.0 UR	5.0 UR
Benzene	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	5.0 U	5.0 UR	5.0 UR	5.0 UR
Carbon disulfide	1.0 U	1.0 U	0.55 J	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	0.58 J	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	0.35 J	1.0 U	1.0 U	1.0 U
Vinyl chloride	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	1.0 U	1.0 U	1.0 U	1.0 U
Methane	7.1	0.13	4.00	2.27
Ethane	0.30	0.10 U	0.11	0.10 U
Ethene	0.62	0.10 U	0.10 U	0.10 U

#### Notes:

1. Units expressed in ug/L.
2. VOCs quantified using EPA Method 8260B.
3. Methane, ethane and ethene were quantified using EPA Method 8015.
3. Analyses performed by Accutest Laboratories of Dayton, NJ.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.
6. "R" indicates that the result is rejected due to low response factor in the calibration standard..

# Table 6

## Ground Water Sampling Results

### VOCs

#### Old Erie Canal Site

#### Clyde, New York

	11/30/2006	11/30/2006	11/30/2006	11/30/2006
	GW-MW-11S-113006	GW-MW-11B-113006	GW-MW-12S-113006	GW-MW-12B-113006
Acetone	5.0 UR	5.0 UR	5.0 UR	5.0 UR
Benzene	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	5.0 UR	5.0 UR	5.0 UR	5.0 UR
Carbon disulfide	1.0 U	1.0 U	1.0 U	1.0
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	1.0 U	1.0 U	1.0 U	1.0 U
Methane	218	2.87	34.3	2.53
Ethane	0.10 U	0.10 U	0.10 U	0.89
Ethene	0.10 U	0.10 U	0.10 U	0.36

#### Notes:

1. Units expressed in ug/L.
2. VOCs quantified using EPA Method 8260B.
3. Methane, ethane and ethene were quantified using EPA Method 8015.
4. Analyses performed by Accutest Laboratories of Dayton, NJ.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.
6. "R" indicates that the result is rejected due to low response factor in the calibration standard..

# Table 6

## Ground Water Sampling Results

### VOCs

Old Erie Canal Site  
Clyde, New York

	11/30/2006	12/6/2006	12/7/2006	12/6/2006
	GW-MW-13S-113006	GW-MW-14S-120606	GW-MW-15S-120706	GW-MW-16S-120606
Acetone	200 UR	250 U	130 U	5.0 U
Benzene	40 U	50 U	25 U	1.0 U
Bromodichloromethane	40 U	50 U	25 U	1.0 U
Bromoform	40 U	50 U	25 U	1.0 U
Bromomethane	40 U	50 U	25 U	1.0 U
2-Butanone (MEK)	200 UR	250 UR	130 U	5.0 UR
Carbon disulfide	40 U	50 UJ	25 U	1.0 UJ
Carbon tetrachloride	40 U	50 U	25 U	1.0 U
Chlorobenzene	40 U	50 U	25 U	1.0 U
Chloroethane	40 U	50 U	25 U	1.0 U
Chloroform	40 U	50 U	25 U	1.0 U
Chloromethane	40 U	50 U	25 U	1.0 U
Dibromochloromethane	40 U	50 U	25 U	1.0 U
1,1-Dichloroethane	40 U	50 U	25 U	1.0 U
1,2-Dichloroethane	40 U	50 U	25 U	1.0 U
1,1-Dichloroethene	40 U	51.8	13.7 J	1.0 U
cis-1,2-Dichloroethene	6870	28200	20800	5.7
trans-1,2-Dichloroethene	40 U	80.0	30.8	1.0 U
1,2-Dichloropropane	40 U	50 U	25 U	1.0 U
cis-1,3-Dichloropropene	40 U	50 U	25 U	1.0 U
trans-1,3-Dichloropropene	40 U	50 U	25 U	1.0 U
Ethylbenzene	40 U	50 U	25 U	1.0 U
2-Hexanone	200 U	250 U	130 U	5.0 U
4-Methyl-2-pentanone (MIBK)	200 U	250 U	130 U	5.0 U
Methylene chloride	80 U	100 U	50 U	2.0 U
Styrene	40 U	50 U	25 U	1.0 U
1,1,2,2-Tetrachloroethane	40 U	50 U	25 U	1.0 U
Tetrachloroethene	40 U	50 U	25 U	1.0 U
Toluene	40 U	639	98.9	1.0 U
1,1,1-Trichloroethane	40 U	50 U	25 U	1.0 U
1,1,2-Trichloroethane	40 U	50 U	25 U	1.0 U
Trichloroethene	845	254	5.6 J	8.4
Vinyl chloride	348	4610	9040	1.0 U
Xylene (total)	40 U	50 U	25 U	1.0 U
Methane	115	588	6660	2.07
Ethane	13.2	151	426	0.35
Ethene	22.9	215	512	0.13

#### Notes:

1. Units expressed in ug/L.
2. VOCs quantified using EPA Method 8260B.
3. Methane, ethane and ethene were quantified using EPA Method 8015.
3. Analyses performed by Accutest Laboratories of Dayton, NJ.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.
6. "R" indicates that the result is rejected due to low response factor in the calibration standard..

# Table 6

## Ground Water Sampling Results

### VOCs

#### Old Erie Canal Site

#### Clyde, New York

	12/6/2006	11/28/2006	11/29/2006
	GW-MW-16B-120606	GW-TMW-1-112806	GW-TMW-2-112906
Acetone	5.0 U	5.0 UR	5.0 UR
Benzene	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	5.0 UR	5.0 UR	5.0 UR
Carbon disulfide	1.0 UJ	1.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	16.0	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0 U	5.0 U
Methylene chloride	2.0 U	2.0 U	2.0 U
Styrene	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U
Toluene	0.72 J	1.0 U	0.51 J
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U
Vinyl chloride	1.2	1.0 U	1.0 U
Xylene (total)	1.0 U	1.0 U	1.0 U
Methane	6.70	152	8.97
Ethane	0.60	1.7	1.2
Ethene	0.72	0.53	0.10 U

#### Notes:

1. Units expressed in ug/L.
2. VOCs quantified using EPA Method 8260B.
3. Methane, ethane and ethene were quantified using EPA Method 8015.
3. Analyses performed by Accutest Laboratories of Dayton, NJ.
4. "U" indicates a compound not detected.
5. "J" indicates an estimated value.
6. "R" indicates that the result is rejected due to low response factor in the calibration standard..

# **Table 7** **Ground Water Sampling Results** **MNA, Inorganics**

**Old Erie Canal Site**  
**Clyde, New York**

	11/30/2006	12/1/2006	12/6/2006	12/1/2006	11/29/2006
	GW-EMW-2-113006	GW-EMW-3-120106	GW-EMW-4-120606	GW-EMW-5-120106	GW-MW-1S-112906
Alkalinity, Total(As CaCO3)	<b>559</b>	<b>453</b>	<b>425</b>	<b>477</b>	<b>374</b>
Chloride	<b>108</b>	<b>38.3</b>	<b>70.9</b>	<b>77.2</b>	<b>182</b>
Dissolved Organic Carbon (DOC)	<b>4.8</b>	<b>3.6</b>	<b>5.6</b>	1.0 U	1.0 UJ
Nitrate (as N)	0.11 U	<b>0.66</b>	0.11 U	0.11 U	0.11 U
Nitrogen, Nitrate + Nitrite	0.10 U	<b>0.66</b>	0.10 U	0.10 U	0.10 U
Nitrogen, Nitrite	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	<b>65600</b>	<b>30900</b>	<b>59200</b>	<b>55000</b>	<b>103000</b>
Sulfate	<b>11.8</b>	10 U	10 U	10 U	<b>34.9</b>
Sulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

**Notes:**

1. Units expressed in mg/L, with the exception of sodium, which is expressed in ug/L.
2. Analyses performed by Accutest Laboratories of Dayton, NJ.
3. "U" indicates a compound not detected.
4. "J" indicates an estimated value.

# **Table 7** **Ground Water Sampling Results** **MNA, Inorganics**

**Old Erie Canal Site**  
**Clyde, New York**

	11/29/2006 GW-X-1-112906 Duplicate of MW-1S	12/6/2006 GW-MW-1-120606	11/29/2006 GW-MW-2S-112906	11/29/2006 GW-MW-2B-112906	12/5/2006 GW-MW-3S-120506
Alkalinity, Total(As CaCO3)	<b>460</b>	<b>275</b>	<b>441</b>	<b>128</b>	<b>462</b>
Chloride	<b>182</b>	<b>24.3</b>	<b>21.5</b>	<b>57.4</b>	<b>10.4</b>
Dissolved Organic Carbon (DOC)	<b>4.6 J</b>	<b>6.4</b>	<b>2.2</b>	<b>5.1</b>	<b>2.1</b>
Nitrate (as N)	0.11 U	0.11 U	<b>0.33</b>	0.11 U	<b>0.35</b>
Nitrogen, Nitrate + Nitrite	0.10 U	0.10 U	<b>0.33</b>	0.10 U	<b>0.35</b>
Nitrogen, Nitrite	<b>0.011</b>	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	<b>103000</b>	<b>21400</b>	<b>61800</b>	<b>70600</b>	<b>11200</b>
Sulfate	<b>35.1</b>	<b>12.7</b>	<b>10.4</b>	<b>1140</b>	<b>21.3</b>
Sulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

**Notes:**

1. Units expressed in mg/L, with the exception of sodium, which is expressed in ug/L.
2. Analyses performed by Accutest Laboratories of Dayton, NJ.
3. "U" indicates a compound not detected.
4. "J" indicates an estimated value.

# **Table 7** **Ground Water Sampling Results** **MNA, Inorganics**

**Old Erie Canal Site**  
**Clyde, New York**

	12/5/2006	12/5/2006	12/5/2006	12/5/2006	12/5/2006
	GW-MW-3B-120506	GW-MW-4S-120506	GW-MW-4B-120506	GW-MW-4C-120506	GW-X-2-120506 Duplicate of MW-4C
Alkalinity, Total(As CaCO3)	<b>63.4</b>	<b>393</b>	<b>361</b>	<b>188</b>	<b>159</b>
Chloride	<b>104</b>	<b>12.8</b>	<b>187</b>	<b>253</b>	<b>256</b>
Dissolved Organic Carbon (DOC)	<b>1.1</b>	<b>4.3</b>	<b>2.8</b>	1.0 U	1.0 U
Nitrate (as N)	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Nitrogen, Nitrate + Nitrite	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nitrogen, Nitrite	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	<b>192000</b>	10000 U	<b>95200</b>	<b>244000</b>	<b>239000</b>
Sulfate	<b>2090</b>	<b>42.2</b>	<b>1150</b>	<b>1710</b>	<b>1790</b>
Sulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

**Notes:**

1. Units expressed in mg/L, with the exception of sodium, which is expressed in ug/L.
2. Analyses performed by Accutest Laboratories of Dayton, NJ.
3. "U" indicates a compound not detected.
4. "J" indicates an estimated value.

# **Table 7** **Ground Water Sampling Results** **MNA, Inorganics**

**Old Erie Canal Site**  
**Clyde, New York**

	12/5/2006	12/6/2006	12/6/2006	12/6/2006	12/4/2006
	GW-MW-5S-120506	GW-MW-5B-120606	GW-MW-6S-120606	GW-MW-6B-120606	GW-MW-7S-120406
Alkalinity, Total(As CaCO3)	<b>739</b>	<b>105</b>	<b>439</b>	<b>256</b>	<b>352</b>
Chloride	2.0 U	<b>123</b>	<b>236</b>	<b>144</b>	<b>74.2</b>
Dissolved Organic Carbon (DOC)	<b>1.9</b>	1.0 U	<b>33.8</b>	<b>1.5</b>	<b>1.3</b>
Nitrate (as N)	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Nitrogen, Nitrate + Nitrite	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nitrogen, Nitrite	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	10000 U	<b>166000</b>	<b>67800</b>	<b>73600</b>	<b>37700</b>
Sulfate	<b>12.3</b>	<b>1840</b>	<b>10.4</b>	<b>1420</b>	<b>231</b>
Sulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

**Notes:**

1. Units expressed in mg/L, with the exception of sodium, which is expressed in ug/L.
2. Analyses performed by Accutest Laboratories of Dayton, NJ.
3. "U" indicates a compound not detected.
4. "J" indicates an estimated value.



# **Table 7** **Ground Water Sampling Results** **MNA, Inorganics**

**Old Erie Canal Site**  
**Clyde, New York**

	12/4/2006	11/30/2006	11/30/2006	11/30/2006	11/30/2006
	GW-MW-7B-120406	GW-MW-8S-113006	GW-MW-9S-113006	GW-MW-10B-113006	GW-MW-11S-113006
Alkalinity, Total(As CaCO3)	<b>16.1</b>	<b>409</b>	<b>340</b>	<b>152</b>	<b>442</b>
Chloride	<b>40.6</b>	<b>248</b>	<b>55.5</b>	<b>751 J</b>	<b>10.1</b>
Dissolved Organic Carbon (DOC)	5.0 U	<b>1.4</b>	<b>5.1</b>	1.0 U	<b>2.5</b>
Nitrate (as N)	<b>0.19</b>	<b>0.17</b>	0.11 U	0.11 U	0.11 U
Nitrogen, Nitrate + Nitrite	<b>0.19</b>	<b>0.17</b>	0.10 U	0.10 U	0.10 U
Nitrogen, Nitrite	0.010 U	0.010 U	0.010 U	<b>0.025</b>	0.010 U
Sodium	<b>90600</b>	<b>158000</b>	<b>58900</b>	<b>568000</b>	<b>10900</b>
Sulfate	<b>1740</b>	<b>67.3</b>	<b>96.3</b>	<b>1970 J</b>	<b>24.3</b>
Sulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

**Notes:**

1. Units expressed in mg/L, with the exception of sodium, which is expressed in ug/L.
2. Analyses performed by Accutest Laboratories of Dayton, NJ.
3. "U" indicates a compound not detected.
4. "J" indicates an estimated value.

# **Table 7** **Ground Water Sampling Results** **MNA, Inorganics**

**Old Erie Canal Site**  
**Clyde, New York**

	11/30/2006	11/30/2006	11/30/2006	11/30/2006	12/6/2006
	GW-MW-11B-113006	GW-MW-12S-113006	GW-MW-12B-113006	GW-MW-13S-113006	GW-MW-14S-120606
Alkalinity, Total(As CaCO3)	<b>159</b>	<b>629</b>	<b>59.7</b>	<b>289</b>	<b>371</b>
Chloride	<b>613 J</b>	<b>3.0</b>	<b>964 J</b>	<b>163</b>	<b>141</b>
Dissolved Organic Carbon (DOC)	1.0 U	<b>3.8</b>	1.0 U	<b>5.4</b>	<b>6.7</b>
Nitrate (as N)	0.11 U	<b>5.3</b>	0.11 U	0.11 U	0.11 U
Nitrogen, Nitrate + Nitrite	0.10 U	<b>5.3</b>	0.10 U	0.10 U	0.10 U
Nitrogen, Nitrite	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	<b>477000</b>	10000 U	<b>778000</b>	<b>93800</b>	<b>90400</b>
Sulfate	<b>1930 J</b>	<b>72.4</b>	<b>2130 J</b>	<b>878</b>	<b>355</b>
Sulfide	2.0 U	2.0 U	<b>3.0</b>	2.0 U	2.0 U

**Notes:**

1. Units expressed in mg/L, with the exception of sodium, which is expressed in ug/L.
2. Analyses performed by Accutest Laboratories of Dayton, NJ.
3. "U" indicates a compound not detected.
4. "J" indicates an estimated value.

# **Table 7** **Ground Water Sampling Results** **MNA, Inorganics**

**Old Erie Canal Site**  
**Clyde, New York**

	12/7/2006	12/6/2006	12/6/2006	11/28/2006	11/29/2006
	GW-MW-15S-120706	GW-MW-16S-120606	GW-MW-16B-120606	GW-TMW-1-112806	GW-TMW-2-112906
Alkalinity, Total(As CaCO3)	<b>550</b>	<b>134</b>	<b>37.6</b>	<b>840</b>	<b>586</b>
Chloride	<b>122</b>	<b>13.1</b>	<b>128</b>	<b>223</b>	<b>19.4</b>
Dissolved Organic Carbon (DOC)	<b>11.7</b>	<b>1.7</b>	<b>21.4</b>	<b>8.5</b>	<b>12.7</b>
Nitrate (as N)	0.11 U	<b>2.0</b>	0.11 U	0.11 U	0.11 U
Nitrogen, Nitrate + Nitrite	0.10 U	<b>2.0</b>	0.10 U	0.10 U	0.10 U
Nitrogen, Nitrite	0.010 U	0.010 U	0.010 U	0.010 UJ	0.010 U
Sodium	<b>68200</b>	<b>20000</b>	<b>153000</b>	<b>111000</b>	<b>12700</b>
Sulfate	<b>18.3</b>	<b>19.2</b>	<b>1690</b>	<b>72.0</b>	<b>35.0</b>
Sulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

**Notes:**

1. Units expressed in mg/L, with the exception of sodium, which is expressed in ug/L.
2. Analyses performed by Accutest Laboratories of Dayton, NJ.
3. "U" indicates a compound not detected.
4. "J" indicates an estimated value.

**Table 8**  
**Ground Water Quality Data Field Parameters**

**Old Erie Canal Site**  
**Clyde, New York**

	<b>EMW-2</b> <b>11/30/06</b>	<b>EMW-3</b> <b>12/1/06</b>	<b>EMW-4</b> <b>12/6/06</b>	<b>EMW-5</b> <b>12/1/06</b>	<b>MW-1</b> <b>12/6/06</b>	<b>MW-1S</b> <b>11/29/06</b>	<b>MW-2S</b> <b>11/29/06</b>	<b>MW-2B</b> <b>11/29/06</b>	<b>MW-3S</b> <b>12/5/06</b>
<b>Field Tested</b>									
Redox Potential (mV)	-114	-85	-201	-178	76	31	21	-20	-5
Temperature (°C)	13.01	11.72	12.11	10.11	14.26	14.58	15.86	17.84	11.19
Dissolved Oxygen (mg/L)	1.06	0.00	0.90	3.88	1.59	1.19	1.00	2.07	1.91
pH (standard units)	10.14	7.20	12.47	7.37	7.78	7.90	8.02	7.36	9.13
Turbidity (NTU)	21.0	0.0	0.0	41.4	0.0	4.8	10.0	264.0	0.0
Specific Conductivity (uS/cm)	1150	940	1110	1080	588	1330	914	-20	942
<b>Field Test Kits</b>									
Iron II (mg/L)	10.0	1.0	10.0	9.5	0.0	2.5	3.0	1.5	<1

**Notes:**

1. Measurements and analyses performed by O'Brien & Gere personel.
2. Iron II analyses performed using a Hach test kit Model # IR-18C.

**Table 8**  
**Ground Water Quality Data Field Parameters**

**Old Erie Canal Site**  
**Clyde, New York**

	<b>MW-3B</b> <b>12/5/06</b>	<b>MW-4S</b> <b>12/5/06</b>	<b>MW-4B</b> <b>12/5/06</b>	<b>MW-4C</b> <b>12/5/06</b>	<b>MW-5S</b> <b>12/5/06</b>	<b>MW-5B</b> <b>12/5/06</b>	<b>MW-6S</b> <b>12/6/06</b>	<b>MW-6B</b> <b>12/6/06</b>	<b>MW-7S</b> <b>12/4/06</b>
<b>Field Tested</b>									
Redox Potential (mV)	-53	-46	-43	-83	10	128	-121	-95	151
Temperature (°C)	11.24	12.60	11.90	9.59	9.83	11.43	13.10	12.88	12.06
Dissolved Oxygen (mg/L)	0.00	1.20	0.00	0.00	0.00	6.63	1.03	0.00	1.35
pH (standard units)	7.61	9.84	6.67	7.14	6.75	8.49	10.96	6.82	6.09
Turbidity (NTU)	62	0.0	0.0	0.0	0.0	>999	0.0	0.0	0.0
Specific Conductivity (uS/cm)	3540	831	2760	3660	900	3290	1650	3090	1310
<b>Field Test Kits</b>									
Iron II (mg/L)	<1	0.5	0.5	1.0	0.5	1.0	10.0	1.5	<1

**Notes:**

1. Measurements and analyses performed by O'Brien & Gere personel.
2. Iron II analyses performed using a Hach test kit Model # IR-18C.

**Table 8**  
**Ground Water Quality Data Field Parameters**

**Old Erie Canal Site**  
**Clyde, New York**

	<b>MW-7B</b> <b>12/4/06</b>	<b>MW-8S</b> <b>11/30/06</b>	<b>MW-9S</b> <b>11/30/06</b>	<b>MW-10B</b> <b>11/30/06</b>	<b>MW-11S</b> <b>11/30/06</b>	<b>MW-11B</b> <b>11/30/06</b>	<b>MW-12S</b> <b>11/30/06</b>	<b>MW-12B</b> <b>11/30/06</b>	<b>MW-13S</b> <b>11/30/06</b>
<b>Field Tested</b>									
Redox Potential (mV)	-172	-11	-12	-106	-156	-121	46	-412	-93
Temperature (°C)	12.50	12.64	14.50	13.75	13.41	13.11	10.39	11.63	13.26
Dissolved Oxygen (mg/L)	0.00	1.04	0.00	0.00	0.95	0.00	2.37	0.00	0.99
pH (standard units)	7.52	8.68	6.90	7.38	10.85	7.33	7.39	9.40	10.17
Turbidity (NTU)	89.0	52.1	156.0	324.0	5.9	120.0	60	231.0	>999
Specific Conductivity (uS/cm)	3020	1600	950	5320	890	4750	1250	6050	2270
<b>Field Test Kits</b>									
Iron II (mg/L)	10.0	3.0	2.5	3.0	10.0	1.5	<1	0.0	4.0

**Notes:**

1. Measurements and analyses performed by O'Brien & Gere personel.
2. Iron II analyses performed using a Hach test kit Model # IR-18C.

**Table 8**  
**Ground Water Quality Data Field Parameters**

**Old Erie Canal Site**  
**Clyde, New York**

	<b>MW-14S</b> <b>12/6/06</b>	<b>MW-15S</b> <b>12/7/06</b>	<b>MW-16S</b> <b>12/6/06</b>	<b>MW-16B</b> <b>12/6/06</b>	<b>TMW-1</b> <b>11/28/06</b>	<b>TMW-2</b> <b>11/29/06</b>
<b>Field Tested</b>						
Redox Potential (mV)	-94	-111	-27	-236	-90	136
Temperature (°C)	11.08	7.64	14.44	15.85	16.49	14.16
Dissolved Oxygen (mg/L)	1.02	1.12	5.73	0.00	8.21	7.63
pH (standard units)	10.54	10.84	9.73	10.57	9.50	6.31
Turbidity (NTU)	68.0	339.0	683.0	0.0	107.0	>999
Specific Conductivity (uS/cm)	1770	1330	352	3130	2200	1090
<b>Field Test Kits</b>						
Iron II (mg/L)	5.5	10.0	<1	0.0	5.5	0.0

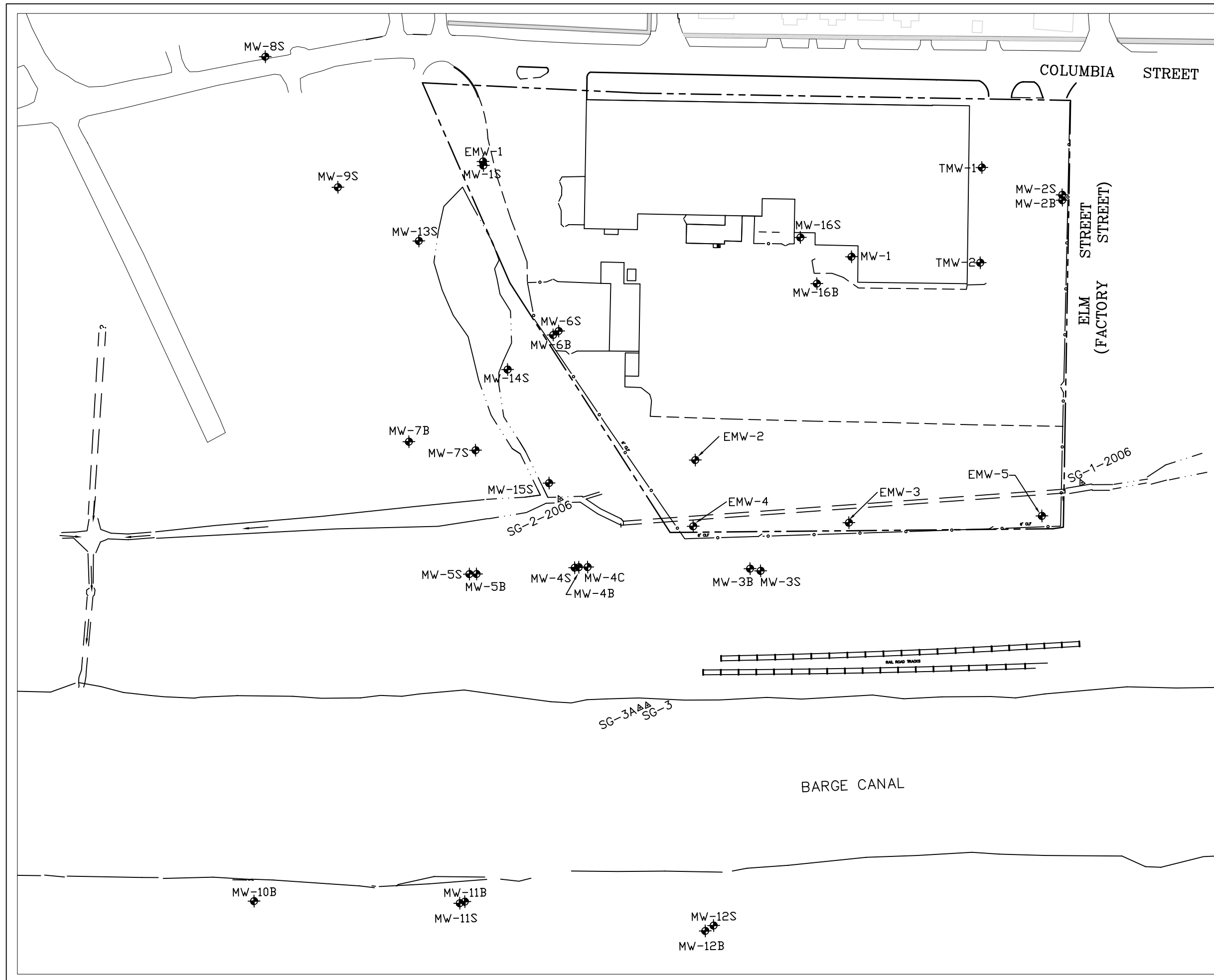
**Notes:**

1. Measurements and analyses performed by O'Brien & Gere personnel.
2. Iron II analyses performed using a Hach test kit Model # IR-18C.

## FIGURES



FIGURE 1



LEGEND

- PROPERTY BOUNDARY
- ⊕ MONITORING WELL
- △ SG-3 STAFF GAUGE

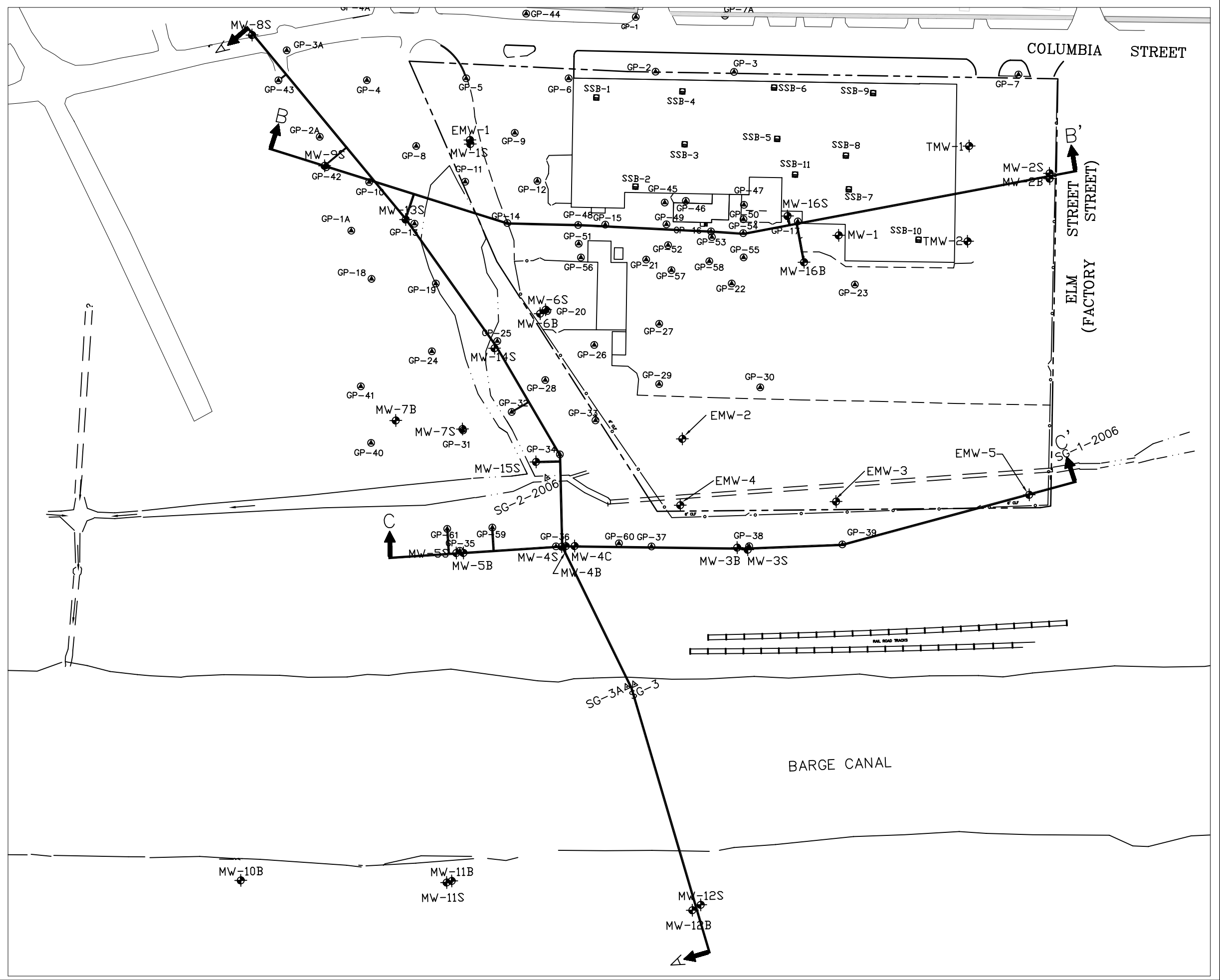
OLD ERIE CANAL SITE  
CLYDE, NEW YORK

MONITORING WELL  
LOCATION MAP



FILE NO. 10488.39892  
JANUARY 2007

FIGURE 2



LEGEND

- PROPERTY BOUNDARY
- OVERBURDEN MONITORING WELL
- STAFF GAUGE
- DIRECT PUSH SAMPLE LOCATION

OLD ERIE CANAL SITE  
CLYDE, NEW YORK

CROSS-SECTION  
LOCATION MAP

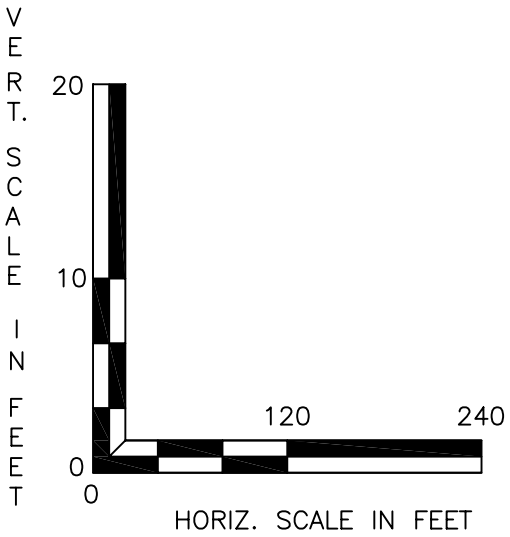
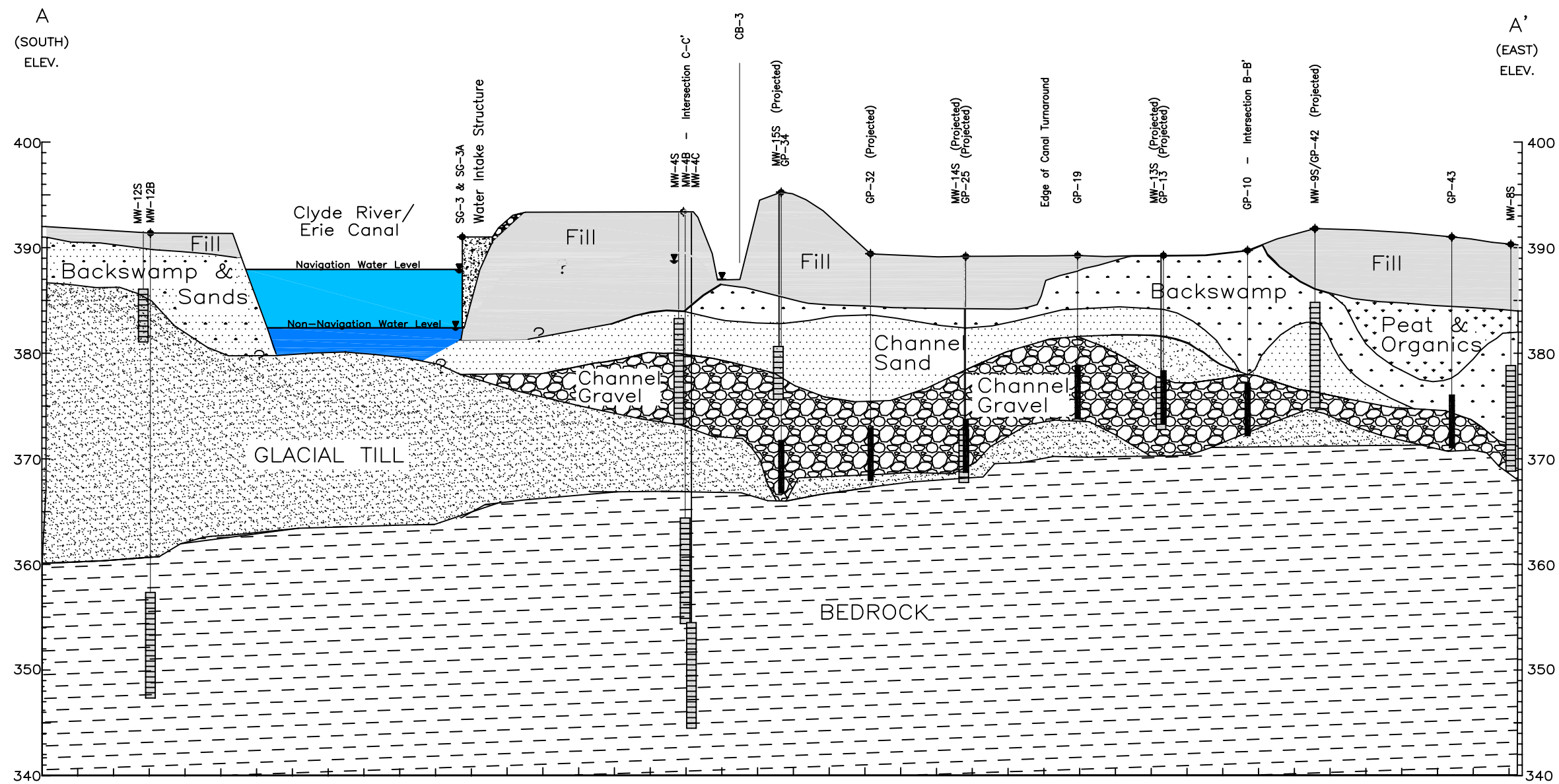


FILE NO. 10488.39892  
JANUARY 2007



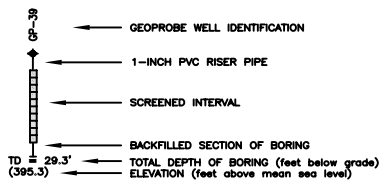
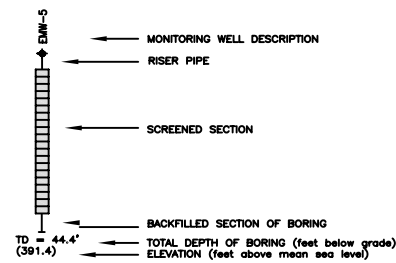
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FIGURE 3



OLD ERIE CANAL SITE  
CLYDE, NEW YORK

GEOLOGIC CROSS SECTION  
LINE A-A' SHOWING  
NORTH-SOUTH  
STRATIGRAPHY



- |  |  |  |  |
|--|--|--|--|
|  | FILL: Black to Brownish Black Cinders, Ash, Slag, Brick and Glass Mixed with Gravel Sand and Silt. |  | CHANNEL GRAVEL: Gray to Dark Gray Poorly Sorted, Coarse to Fine grained Gravel, Sand and Silt.                                       |
|  | PEAT AND ORGANIC DEPOSITS: Brown Silt, organics, leaves and wood.                                  |  | REWORKED GLACIAL TILL: Reddish Brown Clayey Silt with Some Coarse to Fine Sand and Little Gravel and Organics.                       |
|  | BACKSWAMP DEPOSITS: Yellowish Gray to Olive, Interbedded Silt and Clay Layers and Laminæ.          |  | GLACIAL TILL: Reddish Brown Clayey Silt with Some Coarse to Fine Sand and Little Gravel, Very Dense, Dry.                            |
|  | CHANNEL SANDS: Yellowish Brown to Gray, Medium to Fine Grained Sand                                |  | Bedrock: Dark Gray to Greenish Gray Medium to Fine grained Shale with Interbedded Layers of Dolomitic Limestone and Gypsum Stringers |

JANUARY 2007  
31117.006.601

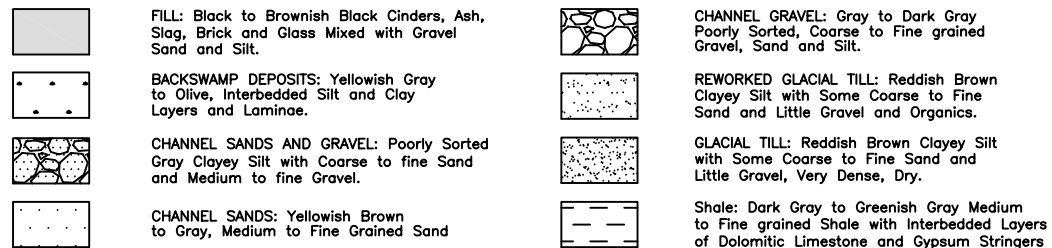
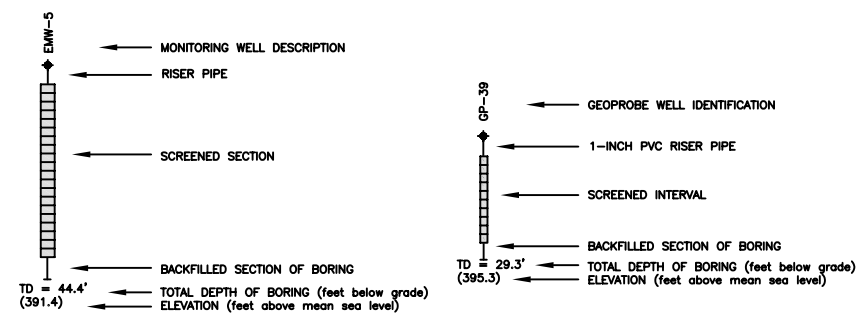
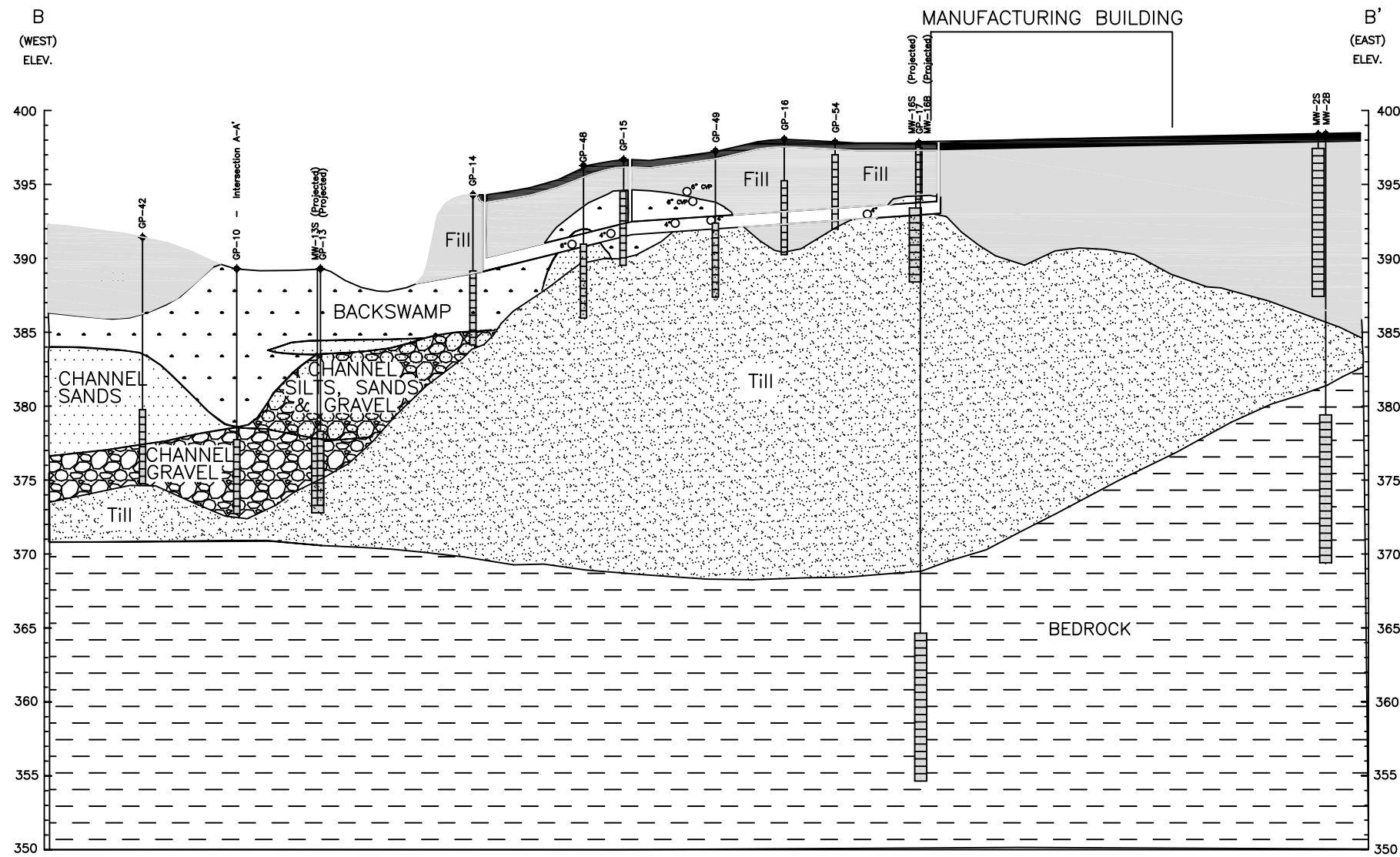
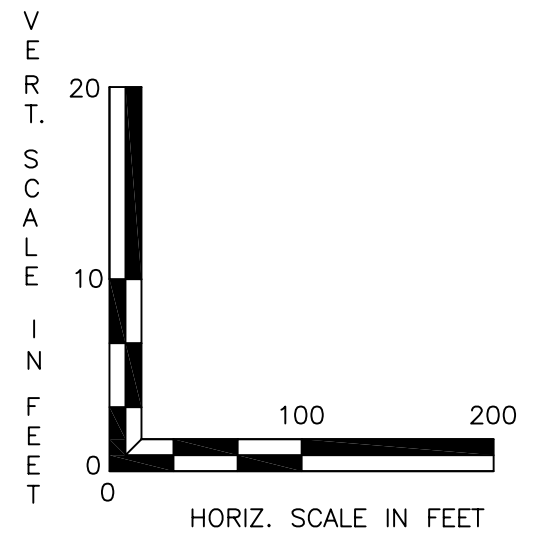


FIGURE 4

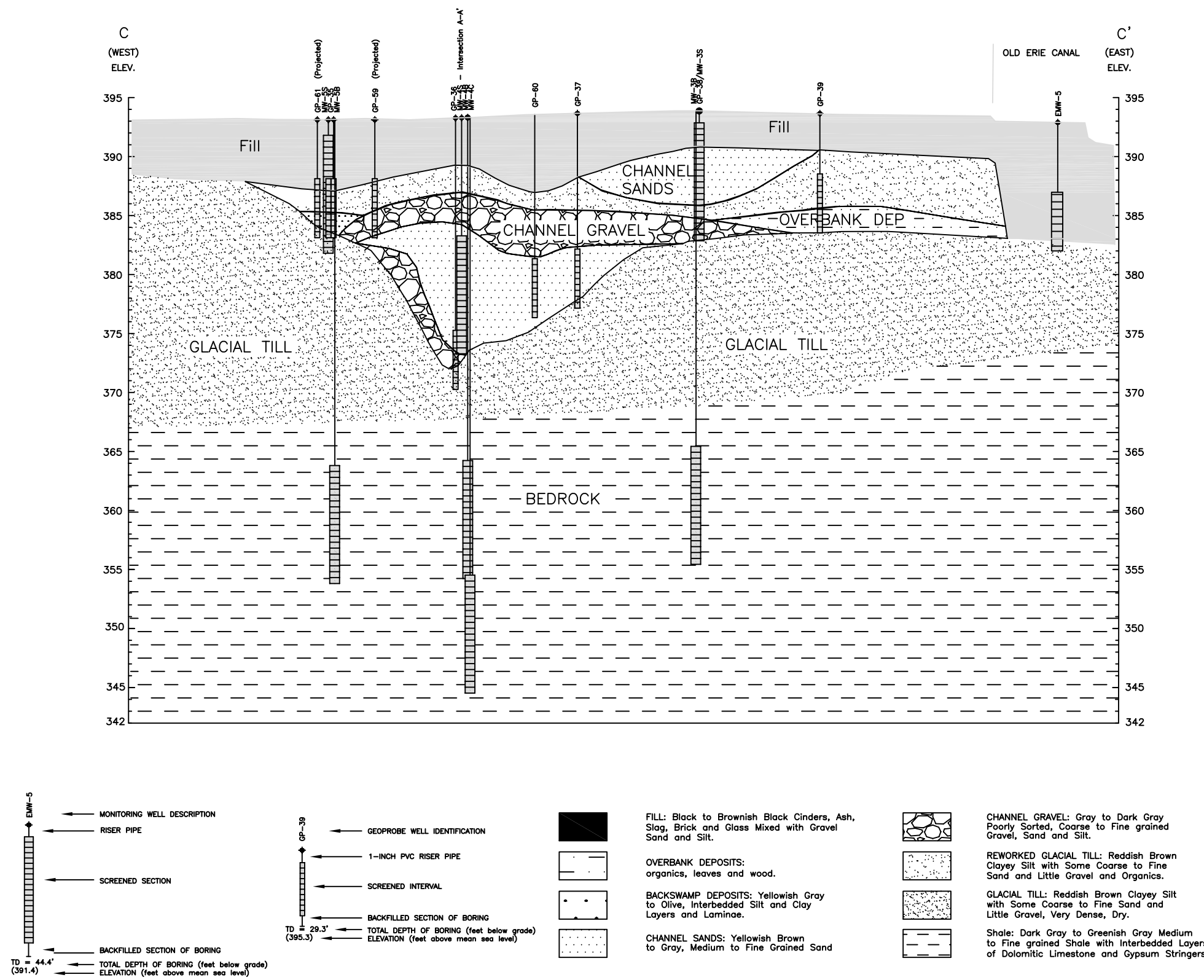


OLD ERIE CANAL SITE  
CLYDE NEW YORK

GEOLOGIC CROSS SECTION  
LINE B-B' SHOWING  
EAST-WEST STRATIGRAPHY  
MANUFACTURING BUILDING

JANUARY 2007  
31117.006.601

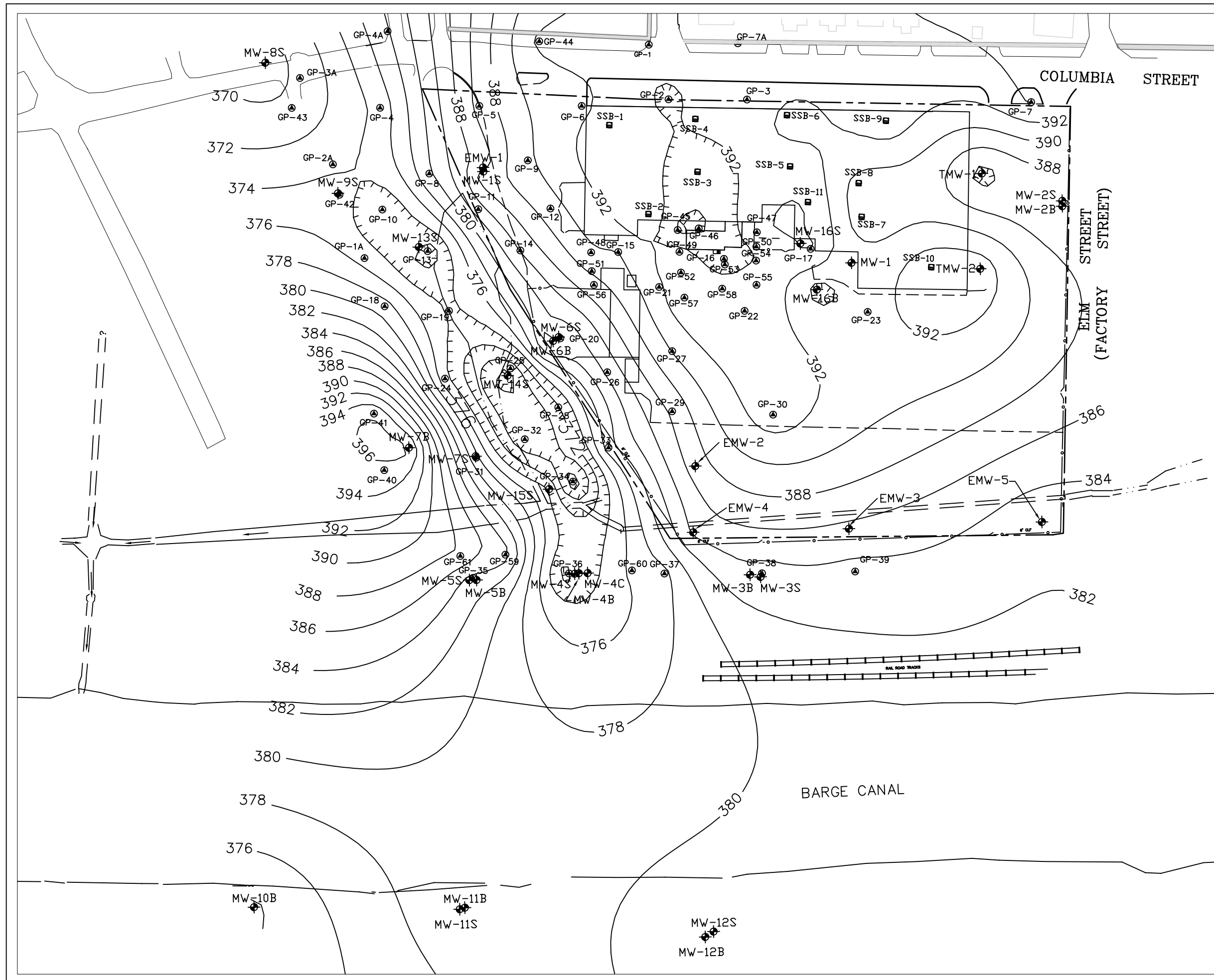
FIGURE 5



JANUARY 2007

31117.006.601

FIGURE 6



**LEGEND**

- PROPERTY BOUNDARY
- MW-3B OVERBURDEN MONITORING WELL
- △ SG-3 STAFF GAUGE
- ⊙ GP-23 DIRECT PUSH SAMPLE LOCATION
- 380— CONTOUR LINES

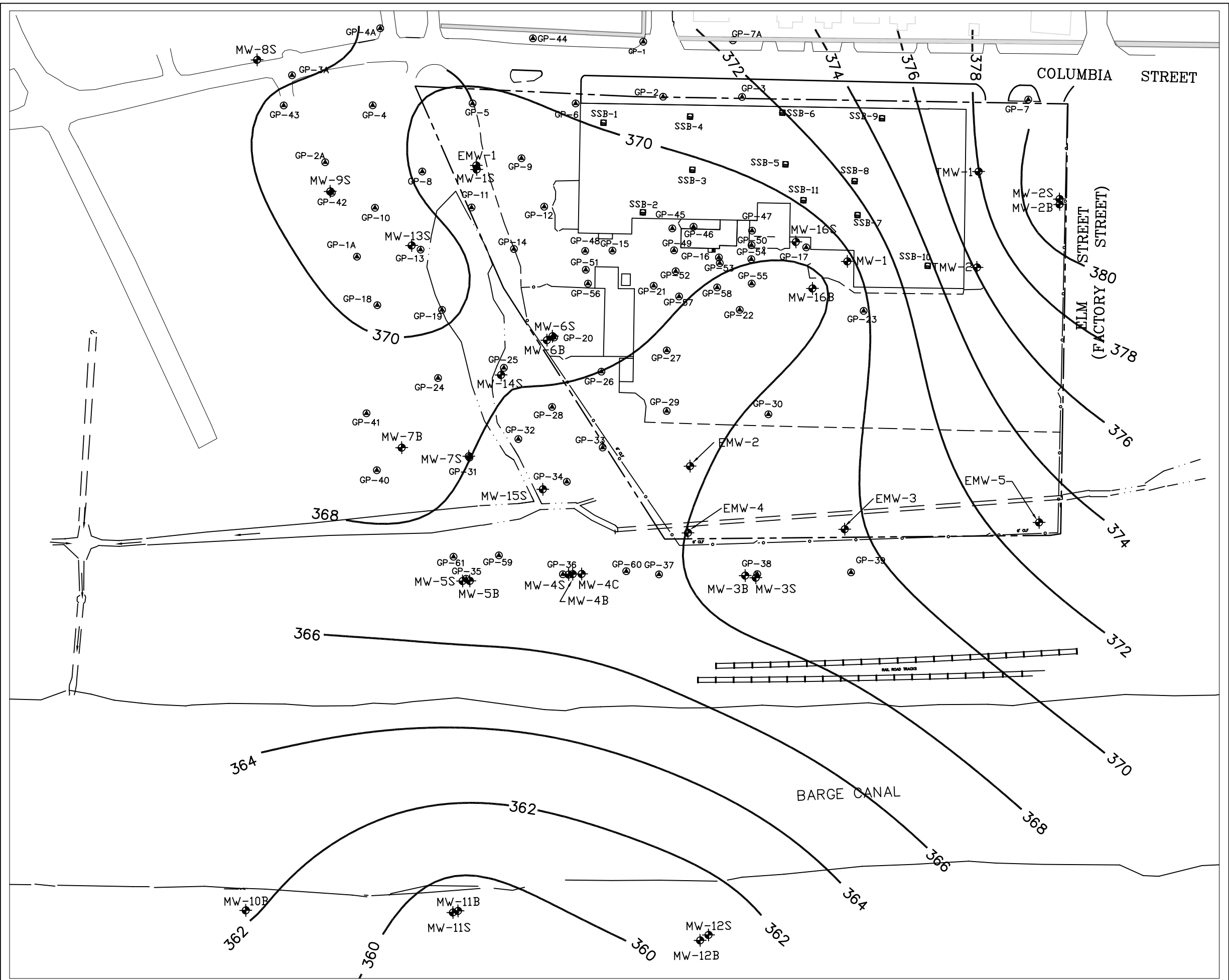
OLD ERIE CANAL SITE  
CLYDE, NEW YORK

TOP OF LOW  
PERMEABILITY UNIT  
CONTOUR MAP



FILE NO. 10488.39892  
JANUARY 2007

FIGURE 7



LEGEND

- PROPERTY BOUNDARY
- MW-3B OVERBURDEN MONITORING WELL
- SG-3 STAFF GAUGE
- GP-23 DIRECT PUSH SAMPLE LOCATION
- 366— CONTOUR LINES

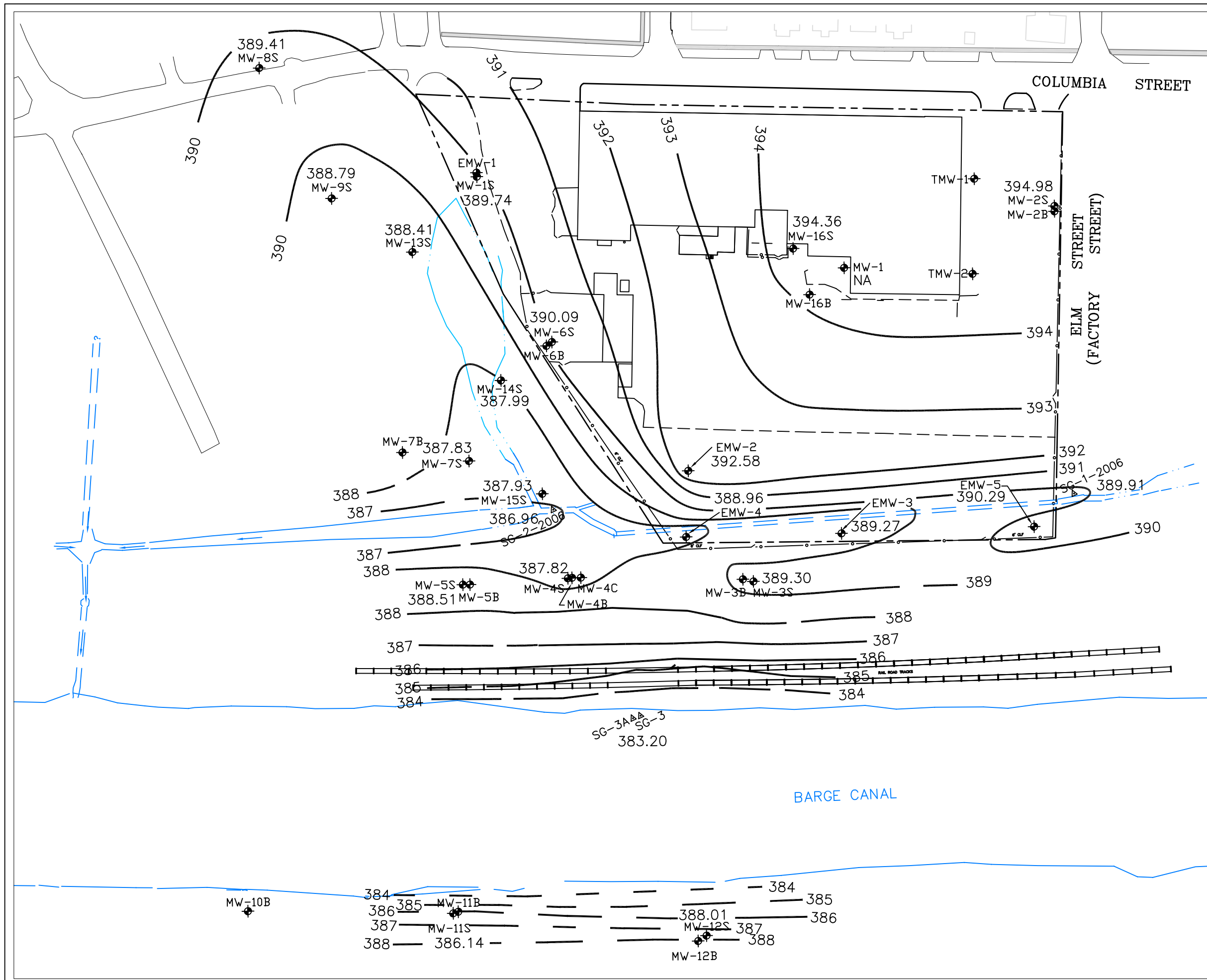
OLD ERIE CANAL SITE  
CLYDE, NEW YORK

TOP OF BEDROCK  
CONTOUR MAP



FILE NO. 10488.39892  
JANUARY 2007

FIGURE 8



LEGEND

- PROPERTY BOUNDARY
- OVERBURDEN MONITORING WELL
- △ SG-3 STAFF GAUGE

OLD ERIE CANAL SITE  
CLYDE, NEW YORK

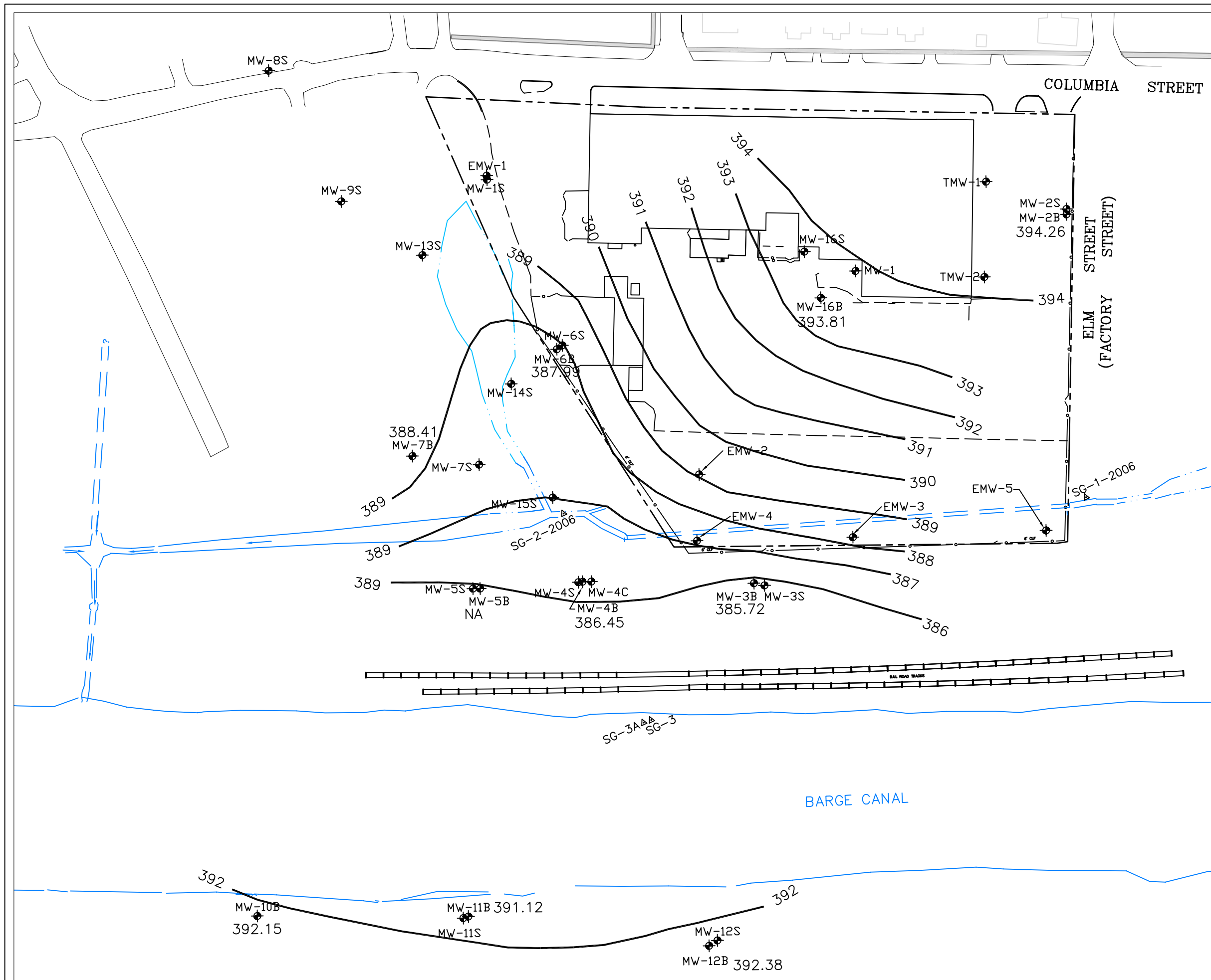
POTENTIOMETRIC MAP  
FOR THE OVERBURDEN  
GROUND WATER ON  
NOVEMBER 28, 2006



FILE NO. 10488.39892  
JANUARY 2007



FIGURE 9



LEGEND

- PROPERTY BOUNDARY
- ⊕ MW-3B MONITORING WELL
- △ SG-3 STAFF GAUGE

OLD ERIE CANAL SITE  
CLYDE, NEW YORK

POTENTIOMETRIC MAP  
FOR THE BEDROCK  
GROUND WATER ON  
NOVEMBER 28, 2006

1"=100' 100 0 100

FILE NO. 10488.39892  
JANUARY 2007

## APPENDICIES

## **APPENDIX A**

### **Soil Boring Logs**



**O'BRIEN & GERE**  
ENGINEERS, INC.

## TEST BORING LOG

BORING NO. MW-3B

PROJECT: Old Erie Canal Supplemental FS

SHEET 1 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

DRILLING CONTRACTOR: Parratt Wolff Inc.

MEAS. PT. ELEV. 393.91 NGVD 29

PURPOSE: Bedrock Well Installation

GROUND ELEV. 394.15

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM

Ground Surface

DRILL RIG TYPE: CME 75

TYPE

Split Spoon

NA

Steel

DATE STARTED 11/10/06

GROUND WATER DEPTH:

DIA.

1.5"

NA

4"

DATE FINISHED 11/16/06

MEASURING POINT: TOC

WEIGHT

140 lbs.

DRILLER Joe Percy

DATE OF MEASUREMENT:

FALL

30"

INSPECTOR

P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1					SEE BORING LOG FOR MW-3S O-R'bg	
2						
3						
4						
5						
6						
7						
8						
9						
10						



**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-3B

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11						
12						
13	S1	20 35 50 —	1.5/ 1.5	CL	Rd Br \$Cy a s cmf G Reddish-brown silty CLAY and some coarse medium fine Gravel  NO RECOVERY	PID 0.0 DRY COMPACT NO ODOR
14	S2	20 50 — —	1/1	CL	Rd Br \$Cy a s cmf G  NO RECOVERY	PID 0.0 DRY COMPACT NO ODOR
15						
16	S3	36 50 — —	1/20	CL	Rd Br \$Cy a s cmf G	PID 0.0 DRY COMPACT NO ODOR
17						
18	S4	36 50 — —	1/1	CL	Rd Br \$Cy a s cmf G	PID 0.0 DRY comp. NO ODOR
19						
20		30 60 80 75	2/2	CL	Rd Br \$Cy a s cmf G	PID 0.0 DRY comp. NO ODOR
21						
22						



**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-3B

PROJECT: Old Erie Canal Supplemental FS

SHEET 3 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
23		75	0.5	CL	Rd Br \$Cy a s cmf G	P.D 0.0
		45	0.75			DRY compact
		50				No odor
24		—			— — — — — 24.0	
		50	1/1	CL	Rd Br \$Cy a s cmf G	P.D 0.0
25		125			Reddish-brown silty CLAY and some coarse medium fine Gravel	DRY
		—				compact No odor
26		—				BEDROCK @ 25' by
						EDB 25.0' by
27						
28						
29						
30						
31						
32						
33						



**O'BRIEN & GERE**  
ENGINEERS, INC.

## TEST BORING LOG

BORING NO. *MW-4C*

PROJECT: Old Erie Canal Supplemental FS

SHEET 1 OF 1

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

DRILLING CONTRACTOR: Parratt Wolff Inc.

MEAS. PT. ELEV. *392.81 NAVD 29*

PURPOSE: Bedrock Well Installation

GROUND ELEV. *393.27*

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM Ground Surface

DRILL RIG TYPE: *CME 75*

TYPE

Split Spoon

NA

Steel

DATE STARTED *11/8/06*

GROUND WATER DEPTH:

DIA.

1.5"

NA

4"

DATE FINISHED *11/9/06 11/17/06*

MEASURING POINT: TOC

WEIGHT

140 lbs.

DRILLER *JOE PERCY*

DATE OF MEASUREMENT:

FALL

30"

INSPECTOR P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1					<i>SEE BORING LOG MW-4B</i> <i>0-40' bg</i>	
2						
3						
4						
5						
6						
7						
8						
9						
10						



**O'BRIEN & GERE**  
ENGINEERS, INC.

## TEST BORING LOG

BORING NO. *MW-5B*

PROJECT: Old Erie Canal Supplemental FS

SHEET 1 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

DRILLING CONTRACTOR: Parratt Wolff Inc.

MEAS. PT. ELEV. 392.85 NGVD 29

PURPOSE: Bedrock Well Installation

GROUND ELEV. 393.19

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM Ground Surface

DRILL RIG TYPE: *CME 75*

TYPE

Split Spoon

NA

Steel

DATE STARTED 11/9/06

GROUND WATER DEPTH:

DIA.

1.5"

NA

4"

DATE FINISHED 11/17/06

MEASURING POINT: TOC

WEIGHT

140 lbs.

DRILLER *Joe PERCY*

DATE OF MEASUREMENT:

FALL

30"

INSPECTOR P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1					SEE BORING LOG FOR MW-55 0-12' bg	
2						
3						
4						
5						
6						
7						
8						
9						
10						





**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. NW-5B

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11					SEE BORING LOG MW-5S	
12					12.0	
13	51	12 24 24 38	1/2	CL	Rd Br \$Cy a s cmfG Reddish-brown silty CLAY and some coarse medium fine Gravel	PID 0.0 SATURATED COMPACT NO ODOR
14					14.0	
15	52	33 35 35 39	15/2	CL	Rd Br \$Cy a s cmfG	PID 7.0 SAT. COMPACT NO ODOR
16					16.0	
17	53	50	05/08	CL	Rd Br \$Cy a s cmfG NO RECOVERY	PID 0.0 SAT. COMPACT NO ODOR
18					18.0	
19	54	25 50	05/1	CL	Rd Br \$Cy a s cmfG NO RECOVERY	PID 5.7 ppm SAT. COMPACT NO ODOR SOME BEDROCK FRAC
20					20.0	
21	55	8 18 34 40	2/2	CL	Rd Br \$Cy a l mfg	PID 0.0 SAT. COMPACT NO ODOR
22					22.0	



**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-5B

PROJECT: Old Erie Canal Supplemental FS

SHEET 3 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
23	56	30	1/2	CL	Red br & Cy a l mfg	PID 0.0 SAT. COMPACT No odor
		28				
		30				
24		35				
25	57	30	1.5/2	CL	Red br & Cy a l mfg Reddish-brown silty CLAY and little medium fine gravel	PID 0.0 SAT. COMPACT No odor
		34				
		35				
26		50				
27						EDB 26' 69
28						
29						
30						
31						
32						
33						
34						



**O'BRIEN & GERE**  
ENGINEERS, INC.

## TEST BORING LOG

BORING NO. MW-6B

PROJECT: Old Erie Canal Supplemental FS	SHEET 1 OF 3
CLIENT: General Electric Company / Parker Hannifin Corporation	JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.	MEAS. PT. ELEV. 396.99 NAVD 29
PURPOSE: Bedrock Well Installation	GROUND ELEV. 395.09
DRILLING METHOD: Hollow Stem Auger	SAMPLE CORE CASING DATUM Ground Surface
DRILL RIG TYPE: CME 75	TYPE Split Spoon NA Steel DATE STARTED 11/13/06
GROUND WATER DEPTH:	DIA. 1.5" NA 4" DATE FINISHED 11/15/06
MEASURING POINT: TOC	WEIGHT 140 lbs. DRILLER SOE PERCY
DATE OF MEASUREMENT:	FALL 30" INSPECTOR P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S1	3 10 10 6	2/2	SP	Br mfs a \$, o, rts Brown medium fine SAND and Silt, organic roots	PID 1.7 ppm DRY SOFT No odor
2		8				
3	S2	5 7 7	0.5/2	SP	Br mfs a \$, o	PID 0.8 ppm DRY SOFT No odor
4		0				
5		0 0 1				NO RECOVERY
6		4				
7	S3	7 13 13	1/2	SP	Br-lyBr mfs a \$, lcy, t cmf G Brown to grayish-brown medium fine SAND and Silt, little clay, trace coarse medium fine gravel	PID 0.0 ppm MOIST - SATURATED SOFT No odor
8		2				
9		1 2 2				NO RECOV.
10						



**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-6B

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11	54	2	0.25	CL	GyBr \$Cy, t cG	PID 0.0 ppm
		2	2		Grayish-brown silty CLAY, trace coarse	MOIST
		3			Gravel	SOFT
		3				No odor
12					12.0	
13	55	4	0.25	CL	GyBr \$Cy, t cG	PID 7.4
		3	2			SATURATED
		4				SOFT
		4				No odor
14					14.0	
15	56	0	1.5	CL	Gy \$Cy, t cG	PID 333 ppm
		-	2			SATURATED
		-				SOFT SLIGHT
		-				ODOR (SAMPLE)
16					16.0	
17	57	25	1.5	CL	GyBr \$Cy, t cG	PID 724 (SAMPLE)
		45	1.5			SAT SOFT
		50	1.5	CL	RdBr \$Cy a cmf G	SLIGHT ODOR
		-			Reddish-brown silty CLAY and coarse medium	
		-			fine Gravel	
18					18.0	
19	58	50	1	CL	RdBr \$Cy a cmf G	PID 8.2
		50	1			SAT.
		-				COMPACT
		-				No odor
20					20.0	
21	59	40	0.5	CL	RdBr \$Cy a cmf G	PID 14.2
		50	1			SATURATED
		-				COMPACT
		-				No odor
22					22.0	



**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-6B

PROJECT: Old Erie Canal Supplemental FS

SHEET 3 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
23	S10	50	1.5 / 1.5	CL	Rd Br sly CL - cmfg	PID 4.0 ppm SATURATED COMPACT NO ODR
		65				
		100				
		<del>110</del>				
24	S11	45	1.5 / 2	CL	Rd Br sly CL - cmfg Reddish-brown silty CLAY and coarse medium fine Gravel	PID 5.1 ppm SAT. COMPACT NO ODR
		62				
		85				
		100				
26						BEDROCK @ 25.9'bg EOB 26'bg
27						
28						
29						
30						
31						
32						
33						
34						



**O'BRIEN & GERE**  
ENGINEERS, INC.

## TEST BORING LOG

BORING NO. MW-13S

PROJECT: Old Erie Canal Supplemental FS

SHEET 1 OF 2

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

DRILLING CONTRACTOR: Parratt Wolff Inc.

MEAS. PT. ELEV. 391.53 above 29

PURPOSE: Overburden Well Installation

GROUND ELEV. 389.67

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM

Ground Surface

DRILL RIG TYPE: ~~CME~~ D50

TYPE

Split Spoon

NA

NA

DATE STARTED 11/2/06

GROUND WATER DEPTH: 3.05

DIA.

1.5"

NA

NA

DATE FINISHED 11/2/06

MEASURING POINT: TOC

WEIGHT

140 lbs.

DRILLER MARK EAVES

DATE OF MEASUREMENT: 11/8/06

FALL

30"

INSPECTOR

P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	5-1	2 4 8 8	1 1/2	CL	Br & Cy o s rts Brown silty CLAY, organic some roots	PID = 0.0 ppm Moist SEMI-COMPACT
2					2.0	
3	5-2	4 6 11	1.75/2	CL	Br & Cy o s roots	PID = 0.0 ppm Moist SEMI-COMPACT
4		8		CL	Gy - Rd Br Cy Gray to Reddish-Brown CLAY	PID = 0.0 ppm Moist COMPACT
5		3 4 6 6	0/2		NO RECOVERY	
6					6.0	
7		3	0/2		NO RECOVERY	SATURATED
8					8.0	
9	5-3	19 14 18 20	1.75/2	CL	Gy - Rd Br Cy	PID = 0.0 ppm SATURATED COMPACT
10				GP	Gy cm & G s Cy Gray coarse, medium silty GRAVEL, some Clay	9.0



**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-135

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 2

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11	5-4	19	1 1/2 / 2.0	GP	gy cm G l & Cy	PID = 0.0 ppm SATURATED LOOSE
		20				
		24				
		17				
12					12.0	
13	5-5	16	1.5 / 2.0	GP	gy cmf G l & Cy	PID = 0.0 ppm SATURATED LOOSE
		16				
		12				
		11				
14					14.0	
15	5-6	47	0.5 / 2	GP	gy cmf G l & Cy	PID = 0.0 ppm SATURATED LOOSE
		24				
		20				
		19				
16					16.0	
17	5-7	6	0.5 / 2.0	GP	gy cmf G l & Cy	PID = 0.0 ppm SATURATED LOOSE
		9				
		9				
		8				
18				CL	Reddish-brown silty CLAY	TOP OF TILL @ 17.5' b.g.
					No RECOVERY	
19	5-8					
20						BEDROCK @ 19.8' b.g. EOR 20' b.g.
21						
22						



**O'BRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-145

PROJECT: Old Erie Canal Supplemental FS

SHEET 1 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

DRILLING CONTRACTOR: Parratt Wolff Inc.

MEAS. PT. ELEV. 391.39 MVD 29

PURPOSE: Overburden Well Installation

GROUND ELEV. 389.27

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM

Ground Surface

DRILL RIG TYPE: TRAKK

TYPE

Split Spoon

NA

NA

DATE STARTED 11/6/06

GROUND WATER DEPTH: 5.5'

DIA.

1.5"

NA

NA

DATE FINISHED 11/6/06

MEASURING POINT: TOC

WEIGHT

140 lbs.

DRILLER SOE PERCY

DATE OF MEASUREMENT: 11/8/06

FALL

30"

INSPECTOR

P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S1	1 4 3 3	2 1/2	SC CL	Br-Tn Cy\$, o, s rts Brown to tan clayey SILT, organic, some roots	PID 0.0 ppm MOIST COMPACT NO ODOR
2		3			2.0	
3	S2	5 3 2 2	0.5 2	SC CL	Br-Tn Cy\$, o, s rts	PID 0.0 ppm MOIST COMPACT NO ODOR
4		12			4.0	
5	S3	7 3 3	0.5 2	CL	Cy Cy Gray CLAY	PID 0.0 ppm MOIST COMPACT NO ODOR
6		4			-6.0	
7	S4	7 3 7	2 1/2	CL	Cy Cy	PID 0.0 ppm MOIST COMPACT NO ODOR
8		7		CL	Cy Cy\$ Gray clayey SILT	PID 0.0 ppm SAT. COMPACT NO ODOR
9	S5	5 6 8 8	0.5 2	CL	Cy Cy\$	PID 3.1 ppm MOIST - SAT. COMPACT NO ODOR
10					10.0	





**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-145

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11	56	3	1/2	GP	Gy cmf G a \$, s Gy\$ Gray coarse, medium, fine GRAVEL and Silt, some clayey silt	PID: 103 ppm SATURATED LOOSE ODOR COLLECT SAMPLE
		6				
		12				
		33				
12			2 1/2	GP	Gy cmf G a \$	PID 374 ppm SAT. LOOSE ODOR COLLECT SAMPLE
	57	11				
13		12				
		16				
14		20	0.5/2	GP	Gy cmf G a \$	PID 28.7 ppm SATURATED LOOSE SLIGHT ODOR
	58	2				
15		5				
		5				
		9	20/2	GP	Gy cmf G a \$	PID 12.8 ppm SATURATED LOOSE No odor
16		20				
17	59	17				
		20				
		30	2 1/2	GP	Gy cmf G a \$	PID 203 ppm SAT. LOOSE ODOR SAMPLE COLLECTED
18		21				
19	510	15				
		12				
		6	1.75/2	GP	Gy cmf G a \$	PID 117 ppm SAT. LOOSE ODOR SAMPLE COLLECTED
20		10				
21	511	13				
		20				
		6				
22						



**OBRIEN & GERE**  
ENGINEERS, INC.

## TEST BORING LOG

BORING NO. MW-145

PROJECT: Old Erie Canal Supplemental FS

SHEET 3 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
	S12	50	0.5/2	CL	Gy - Rd Gy Cy & s mfg Gray to reddish-gray clayey SILT, some medium fine sand Glacial Till	COMPACT 0.0 P.D. NO ODR EOB 22.5' 6g
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						



**O'BRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-155

PROJECT: Old Erie Canal Supplemental FS

SHEET 1 OF 2

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

DRILLING CONTRACTOR: Parratt Wolff Inc.

MEAS. PT. ELEV. 390.12 MWD 29

PURPOSE: Overburden Well Installation

GROUND ELEV. 388.40

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM

Ground Surface

DRILL RIG TYPE: TRACK

TYPE

Split Spoon

NA

NA

DATE STARTED 11/7/06

GROUND WATER DEPTH: 2.19

DIA.

1.5"

NA

NA

DATE FINISHED 11/7/06

MEASURING POINT: TOC

WEIGHT

140 lbs.

DRILLER Joe Percy

DATE OF MEASUREMENT: 11/8/06

FALL

30"

INSPECTOR

P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S1	0	1/20	CL	DK Br - Gy Cy \$, 0, s fts Dark Brown to gray clayey SILT, organic, some roots	PID 0.0 VERY MOIST SOFT NO ODOR
2	-	1	-	-	-	<del>NO RECOVERY</del>
3	S2	0	2/2	CL	DK Br - Gy Cy \$, 0	PID 0.0 SATURATED SOFT NO ODOR
4	-	3	-	-	-	4.0
5	S3	1	0.5/2	GP	DK Gy cmf G a \$ Dark gray coarse medium fine GRAVEL and silt	PID 0.0 SAT. LOOSE NO ODOR
6	-	3	-	-	-	6.0
7	S4	5	1/2	GP	DK Gy cmf G a \$	PID 0.0 ppm SAT. loose
8	-	6	-	CL	DK Br \$ Cy ?	NO ODOR
9	S5	14	1/2	GP	DK Gy - Rd Gy cmf G a s \$	PID 1.2 ppm SAT. <del>LOOSE</del> COMPACT NO ODOR
10	-	20	-	-	-	
	-	20	-	-	-	
	-	15	-	-	-	



**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. *MW-15S*

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF *2*

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11	<i>56</i>	22	<i>1.75 / 2</i>	<i>GP</i>	<i>DK Gy - Rd gy cmf G &amp; s s</i>	<i>PID 2.0 SAT. COMPACT NO ODOOR</i>
		18				
		28				
		28				
12	<i>57</i>	16	<i>1.5 / 20</i>	<i>GP</i>	<i>DK Gy cmf G &amp; s s</i>	<i>PID 0.0 SAT. COMPACT NO ODOOR</i>
13		23				
		33		<i>CL</i>	<i>Gy Rd s Cy &amp; LG Grayish-red silty CLAY and little Gravel</i>	<i>PID 2.6 SAT. COMPACT NO ODOOR</i>
14		41				
15						<i>EOB 18' 6g 14.6'</i>
16						
17						
18						
19						
20						
21						
22						



**O'BRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-165

PROJECT: Old Erie Canal Supplemental FS

SHEET 1 OF 1

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

DRILLING CONTRACTOR: Parratt Wolff Inc.

MEAS. PT. ELEV. 397.30 NGVD29

PURPOSE: Overburden Well Installation

GROUND ELEV. 398.01

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM

Ground Surface

DRILL RIG TYPE: ~~CASE~~ D50

TYPE

Split Spoon

NA

NA

DATE STARTED 11/2/06

GROUND WATER DEPTH: 2.97

DIA.

1.5"

NA

NA

DATE FINISHED 11/2/06

MEASURING POINT: TOC

WEIGHT

140 lbs.

DRILLER MARK EAVES

DATE OF MEASUREMENT: 11/8/06

FALL

30"

INSPECTOR

P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S-1	3	0.5/2	CL	ASPHALT Rd Br \$Cy	0.0 PID DRY COMPACT
2		4				
		50				
3			NA	NA	CONCRETE & REBAR	
4		10			Rd Br \$Cy & cm G	12.5 PID MOIST TO SATURATED COMPACT
5	S-2	10	1/2	CL		WATER TABLE AT ~ 4' bg
		22				
		25				
6		30			Rd Br \$Cy & cm G	0.0 PID SATURATED COMPACT
7		36	1/2	CL		
		36				
		38				
8		12			Rd Br \$Cy & cm G	0.4 PID SATURATED COMPACT
9		12	1.5/2	CL		
		33				
10		40			(GLACIAL TILL)	EOB 10' bg



**O'BRIEN & GERE**  
ENGINEERS, INC.

## TEST BORING LOG

BORING NO. MW-16B

PROJECT: Old Erie Canal Supplemental FS

SHEET 1 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

DRILLING CONTRACTOR: Parratt Wolff Inc.

MEAS. PT. ELEV. 397.69 NWD 29

PURPOSE: Bedrock Well Installation

GROUND ELEV. 398.18

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM Ground Surface

DRILL RIG TYPE: CME 75

TYPE

Split Spoon

NA

Steel

DATE STARTED 11/14/06

GROUND WATER DEPTH:

DIA.

1.5"

NA

4"

DATE FINISHED 11/15/06

MEASURING POINT: TOC

WEIGHT

140 lbs.

DRILLER JOE PERCY

DATE OF MEASUREMENT:

FALL

30"

INSPECTOR P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1					ASPHALT SEE BORING LOG MW-16S 0-9' 6g	
2						
3						
4						
5						
6						6.0
7			1/1	CL	Rd Br \$Cy a cmf G Reddish-brown silty CLAY and coarse medium fine Gravel 7.0	
8	51	27 60	1/2	CL	Rd Br \$Cy a cmf G	COMPACT DRY NO ODOR
9						9.0
10	52	21 72	1/2	CL	Rd Br \$Cy a cmf G	PID 4.5 ppm COMPACT DRY NO ODOR





**O'BRIEN & GERE**  
ENGINEERS, INC.

## TEST BORING LOG

BORING NO. MW-16B

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11		-				
		-				
		37	1/2	CL	Red Br \$Cy a conf G	PID 0.0
12	53	50				DRY COMPACT
		-				NO ODOR
		-				
13		50	0.5	CL	Red Br \$Cy a conf G	PID 0.9
		-	2.0			DRY COMPACT
14	54	-				NO ODOR
		-				
		-				
15		7				
		40	1/1.5	CL	Red Br \$Cy a conf G	PID 0.0
16	55	50				DRY COMPACT
		-				NO ODOR
17		47	0.75			
		90	1.5	CL	Red Br \$Cy a conf G	PID 0.0
18	56	50				DRY COMPACT
		-				NO ODOR
19		31				
		50	2/2	CL	Red Br \$Cy a conf G	PID 0.0
20	57	61				DRY - SLIGHTLY
		50				moist
		-				COMPACT
21		20	1.5			NO ODOR
		50	1.5	CL	Red Br \$Cy a conf G	PID 0.0
22	58	-				MOIST
		-				COMPACT NO ODOR



**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. MW-168

PROJECT: Old Erie Canal Supplemental FS

SHEET 3 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
23		75				
23		—				
24	59	45	1/1.5	CL	Rd Br & Cy a conf G	P.D 1.2 MOIST COMPACT NO ODOR
24		50				
24		95				
25		—				
25		60			Rd Br & Cy a conf G	P.D 0.0
26	510	60	2/2	CL		MOIST COMPACT
26		65				
27		65				NO ODOR
27		27	2/		Rd Br & Cy a conf G	P.D 0.0
28	511	40		CL		MOIST
28		42	2			COMPACT
29		45				NO ODOR
29		50	0.5	CL	Rd Br & Cy a conf G	P.D 0.0
30	512	80	/1			MOIST COMPACT
30		—				
30		—				
31		110	0.25/0.5	CL	Rd Br & Cy a conf G	NO ODOR
31		—			Reddish-brown silty CLAY and coarse	P.D 0.0
32	513	—			medium fine Gravel	MOIST COMPACT NO ODOR
32		—				
32		—				
33						BEDROCK @ 31' by
34						COB 31' by





**O'BRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. TMW-1

PROJECT: Old Erie Canal Supplemental FS

SHEET 1 OF 2

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

DRILLING CONTRACTOR: Parratt Wolff Inc.

MEAS. PT. ELEV. 349.11 NGVD 29

PURPOSE: Overburden Well Installation

GROUND ELEV. 348.69

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

DATUM

Ground Surface

DRILL RIG TYPE: D50

TYPE

Split Spoon

NA

NA

DATE STARTED 11/3/06

GROUND WATER DEPTH: 3.93

DIA.

1.5"

NA

NA

DATE FINISHED 11/3/06

MEASURING POINT: TOC

WEIGHT

140 lbs.

DRILLER MARK EAVES

DATE OF MEASUREMENT: 11/3/06

FALL

30"

INSPECTOR

P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S1	2	1.0/2	SP	Br - Tan mfs, 0 Brown to tan medium fine SAND	DRY COMPACT
		2		SP	Bl-Gy cmf G, s \$	0.0 PID
		4			Black to gray coarse medium fine GRAVEL, some Silt	DRY
		4				COMPACT
2					2.0	
3	S2	1	0.5/2	SP	Bl-Gy cmf G, s \$	0.0 PID
		2				SATURATED
		1				LOOSE
		3				
4					4.0	
5	S3	2	1.0/2.0	SP	Bl-Gy cmf G, s \$	0.0 PID SATURATED
		4				LOOSE
		6		CL	Gy-Tn Gy Gray to tan CLAY	SATURATED
		6				COMPACT
6					6.0	
7	S4	6	1.0/2.0	SP	Bl-Gy cmf G, s \$	0.0 PID
		8			Black to gray coarse medium fine GRAVEL, some Silt	LOOSE
		6		CL	Gy-Tn Gy Gray to tan CLAY	SATURATED
		10				
8					8.0	
9	S5	10	2/2	SP	Bl-Gy cmf G, s \$	0.0 PID
		14				LOOSE
		19		CL	Gy-Tn Gy	SATURATED
		21				
10					10.0	



**OBRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. *TMW-1*

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 2

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11	56	27		GP	Bl-Gy cmf G 10.5	0.0 PID
		39	2/12	CL	Gy-Tn Cy 11.0	SVET.
		50		GP	Bl-Gy cmf G 11.5	LOOSE
				CL	Gy-Tn Cy 12.0	
12	57	38	1/2			0.0 PID
50		CL		Gy-Tn Cy 13.0	SATURATED LOOSE	
		CL		Rd Gy SCy	0.0 PID	
				Reddish-gray silty CLAY	DRY - COMPACT	
14						EOB 14'6g
15						
16						
17						
18						
19						
20						
21						
22						



**O'BRIEN & GERE**  
ENGINEERS, INC.

# TEST BORING LOG

BORING NO. TMW-2

PROJECT: Old Erie Canal Supplemental FS	SHEET 1 OF 1
CLIENT: General Electric Company / Parker Hannifin Corporation	JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.	MEAS. PT. ELEV. 399.91 NGVD 29
PURPOSE: Overburden Well Installation	GROUND ELEV. 398.82
DRILLING METHOD: Hollow Stem Auger	SAMPLE CORE CASING DATUM Ground Surface
DRILL RIG TYPE: D50	TYPE Split Spoon NA NA DATE STARTED 11/3/06
GROUND WATER DEPTH: 4.48	DIA. 1.5" NA NA DATE FINISHED 11/3/06
MEASURING POINT: TOC	WEIGHT 140 lbs. DRILLER MARK EAVES
DATE OF MEASUREMENT: 11/8/06	FALL 30" INSPECTOR P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	51	2 5 10 6	1.07 2.0	SP	Br-Tn mfs, 0 Brown to tan medium fine SAND, organic	0.0 fID DRY compact
2		11			No Recovery	GRAVEL IN SPLIT SPOON
3	/		/			
4						4.0
5	52	6 10 11 12	1.75 2.0	GP CL	Gy cmf G Gray coarse medium fine GRAVEL Rd Br & Cy Reddish-brown silty CLAY	0.0 fID moist compact
6						6.0 EDB: 6' lg
7						
8						
9						
10						

O'BRIEN & GERE ENGINEERS, INC. 435 New Karner Road Albany, New York 12205				CORE LOG				Hole No.: MW-3B Job No.: 39892.001.102	
Project: Old Erie Canal Supplemental FS				Drilling Contractor: Parratt Wolff Inc.				Date Started: 11/16/06	
Client: General Electric Company / Parker Hannifin				Driller: Joe Percy				Date Finished: 11/16/06	
Purpose: Bedrock Well Installation				Geologist: P. D'Annibale				Total Depth: 39'	
Location: Clyde, New York				Length of Casing: 29.0'				Ground Elev.: 394.15 NGVD 1929	
Hole Location: S of Facility along walk path (near R)				Casing Size: 6" 4"		Core Size: 3 3/4"		Inclination/Bearing:	
Formation Member	Run No. Time Start/Stop	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)		Core Length	Core Recovery Percent	RQD	
Upper Silurian	1035	1	29.0' 30.0'	Boring advanced through overburden utilizing 4 1/4" HSA. Top of bedrock at 25.0' bgs. Set 4" steel casing to 29.0' bgs. See soil boring log MW-3B for soil description.					
	1128			Greenish-gray shale, fine to medium grained, horizontal bedding, occasional horizontal fractures, few vertical fractures		4.9	98	86.7%	
	1148			Gray to dark gray shale, fine to medium grained, horizontal bedding, some horizontal fractures.					
	2	6	35.0'	Greenish-gray to gray shale, fine to medium grained, horizontal bedding, frequent horizontal fractures and occasional gypsum partings and stringers		5.0	100	97%	
	1218		40.0'	End of core @ 39.0' bgs.					

O'BRIEN & GERE ENGINEERS, INC. 435 New Karner Road Albany, New York 12205				CORE LOG				Hole No.: MW-4C		Job No.: 39892.001.102	
Project: Old Erie Canal Supplemental FS				Drilling Contractor: Parratt Wolff Inc.				Sheet 1 of 1		Date Started: 11/17/06	
Client: General Electric Company / Parker Hannifin				Driller: Joe Percy				Date Finished: 11/17/06			
Purpose: Bedrock Well Installation				Geologist: P. D'Annibale				Total Depth: 50'		Ground Elev.: 393.27 NGVD 1929	
Location: Clyde, New York				Length of Casing: 40'				S.W.L.:			
Hole Location: S of facility along walkway				Casing Size: 6" 4"				Core Size: 3 3/4"		Inclination/Bearing:	
Formation Member	Unit	Run No. Time Start/Stop	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (Include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Percent	RQD			
Upper Silurian					Boring advanced through overburden utilizing 4 1/4" HSA. Top of bedrock at 26.0' bgs. Set 4" steel casing to 40.0' bgs. See soil boring log MW-4C for soil description.						
		1022	1	2.2	40.0'		48	17%			
		1033			45.0'						
		1050	2	8			4.9	98	21%		
		1130		50.0'	End of coring at 50.0' bgs						

O'BRIEN & GERE ENGINEERS, INC. 435 New Karner Road Albany, New York 12205				CORE LOG				Hole No.: MW-5B Sheet 1 of 1		Job No.: 39892.001.102	
Project: Old Erie Canal Supplemental FS				Drilling Contractor: Parratt Wolff Inc.				Date Started: 11/16/06		Date Finished: 11/17/06	
Client: General Electric Company / Parker Hannifin				Driller: Joe Percy				Total Depth: 39.2'			
Purpose: Bedrock Well Installation				Geologist: P. D'Annibale				Ground Elev.: 393.19' NGVD 1929			
Location: Clyde, New York				Length of Casing: 39.0'				S.W.L.:			
Hole Location: S of facility along walk path				Casing Size: 6" 4"				Core Size: 3 3/4"		Inclination/Bearing:	
Formation Member	Unit	Run No.		Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery		RQD		
		Time Start	Time Stop				Length	Percent			
Upper Silurian						Boring advanced through overburden utilizing 4 1/4" HSA. TOP of bedrock at 25.9' bgs. Set 4" steel casing to 29.0' bgs. See soil boring log MW-5B for soil description.					
		1348	1	6.4	29.0' 30.0'	Greenish gray shale, fine grained, horizontal bedding, highly fractured with bedding, few to some gypsum partings	2	40	0%		
		1440	2	4.0	33.0'	Greenish gray shale, fine grained, horizontal bedding, highly fractured with bedding	2	40	0%		
		1500			39.0'	End of coring at 39.2' bgs					

O'BRIEN & GERE ENGINEERS, INC. 435 New Karner Road Albany, New York 12205				CORE LOG		Hole No.: MW-6B Sheet 1 of 1		Job No.: 39892.001.102	
Project: Old Erie Canal Supplemental FS				Drilling Contractor: Parratt Wolff Inc.				Date Started: 11/15/06	
Client: General Electric Company / Parker Hannifin				Driller: Joe Percy				Date Finished: 11/15/06	
Purpose: Bedrock Well Installation				Geologist: P. D'Annibale				Total Depth: 39.4'	
Location: Clyde, New York				Length of Casing: 39.4'				Ground Elev.: 395.09 NGVD (1929)	
Hole Location: Near Hydrogen tank, SW of facility				Casing Size: 6" 4"		Core Size: 3 3/4"		Inclination/Bearing:	
Formation Member	Run No.		Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery			
	Time Start/Stop	Unit				Length	Percent		
Upper Silurian	1321			29.0'	Boring advanced through overburden utilizing 4 1/4" HSA. Top of bedrock at 25.9' bgs. Set 4" steel casing to 29.0' bgs. See soil boring log MW-6B for soil description.				
	1		11.4	30.0'	Greenish gray to gray shale, fine grained, horizontal bedding, frequent horizontal fractures, gypsum stringers	5	100 82.1%		
	1434			35.0'	Greenish gray to gray shale, fine grained, horizontal bedding, occasional horizontal fractures				
	2		4.8			5	100 29.6%		
				39.0'	End of coring at 39.4' bgs.				

O'BRIEN & GERE ENGINEERS, INC. 435 New Karner Road Albany, New York 12205				CORE LOG		Hole No.: MW-168		Job No.: 39892.001.102	
Project: Old Erie Canal Supplemental FS				Drilling Contractor: Parratt Wolff Inc.		Sheet 1 of 1		Date Started: 11/15/06	
Client: General Electric Company / Parker Hannifin				Driller: Joe Percy				Date Finished: 11/15/06	
Purpose: Bedrock Well Installation				Geologist: P. D'Annibale				Total Depth: 44.0'	
Location: Clyde, New York				Length of Casing: 44.1'				Ground Elev.: 398.18 NGVD 1929	
Hole Location: ~50' SSW of Facility				Casing Size: 6" 4"		Core Size: 3 3/4"		Inclination/Bearing:	
Formation Member	Run No. Time: Start/Stop	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Percent	RQD		
				Boring advanced through overburden utilizing 4 1/4" HSA. Top of bedrock at 31.0' bgs. Set 4" steel casing to 34.0' bgs. See soil boring log MW-168 for soil description.					
	0847		34.5'	Greenish gray shale, fine grained, horizontal bedding, numerous fractures with bedding. Vertical fractures from 36.5 to 37.0 and from 37.58 to 37.83.	4.75	95	52.9%		
	1034	9.4	35.5'						
	1043		40.5'	Greenish gray shale, fine grained, horizontal bedding, numerous fractures with bedding	4.5	100	42.5%		
	1124	7.4		Dark gray shale, fine grained, horizontal bedding, numerous horizontal fractures					
				End of coring at 44.0' bgs.					



## **APPENDIX B**

### **Monitoring Well Completion Logs**

# WELL COMPLETION LOG

Well ID: **MW-3B**

**Project:** Old Erie Canal Supplemental FS  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/16/2006  
**Date Developed:** 11/17 - 21/06

## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt-Wolff, Inc.  
**Type of Well:** Monitoring Well

**Static Water Level (ft bmp):** 8.19 **Date:** 11/28/06  
**Measuring Point:** TOC  
**Total Depth of Well (ft bmp):** 38.54

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** 4" Steel

## Sampling Method - Overburden:

**Type:** Split Spoon **Diameter:** 2" OD  
**Weight:** 140 # **Fall:** 30"  
**Interval:** 12.0' - 26.0'

## Drilling Method - Bedrock:

**Type:** HX diamond bit **Diameter:** 3 3/4" OD  
**Casing:** NA

## Sampling Method - Bedrock:

**Type:** HX Core **Diameter:** 3 3/4" OD  
**Interval:** 29.0' - 39.0'

## Riser Pipe Left in Place:

**Material:** Sch. 40 PVC **Diameter:** 2" ID  
**Length:** 28.5' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch. 40 PVC **Diameter:** 2" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

## Filter Pack:

**Type:** Sand **Grade:** # 0 Morie  
**Interval:** 27.0' - 39.0'

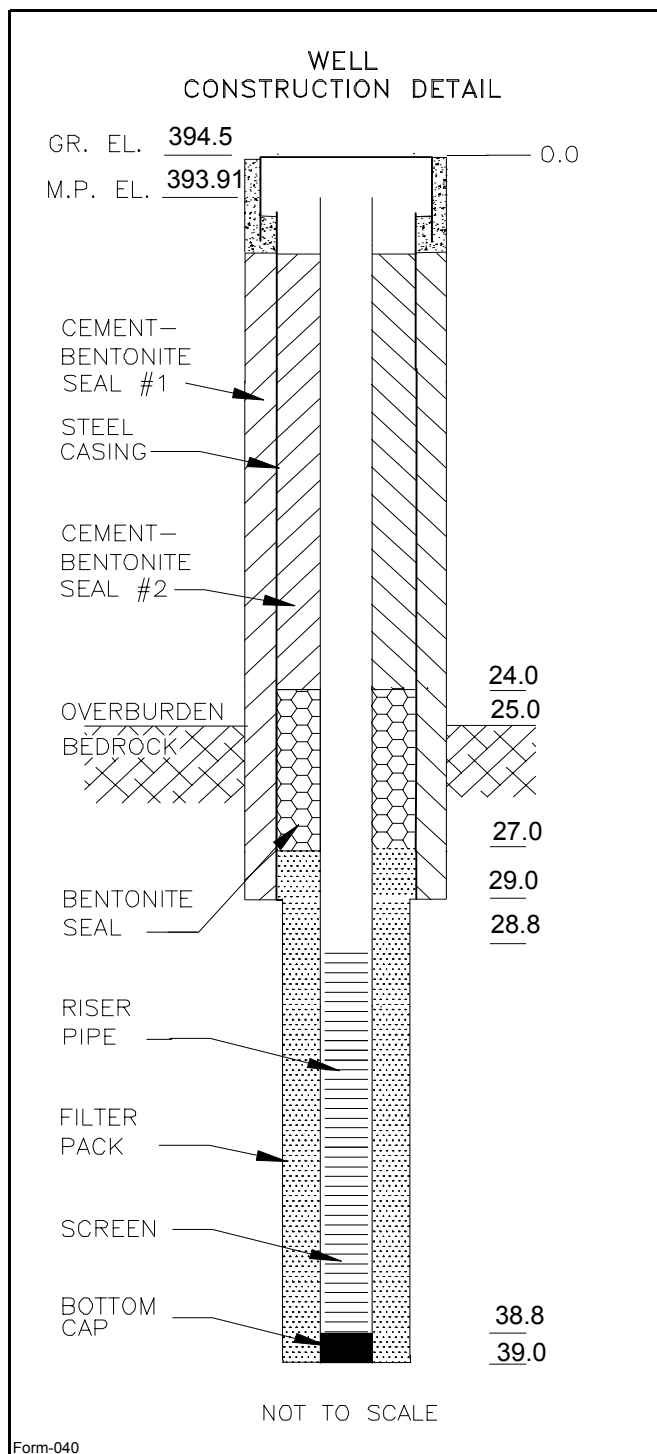
## Seal(s):

**Type:** Cement-Bentonite Seal #1 **Interval:** 0.0' - 29.0'  
**Type:** Bentonite Seal **Interval:** 24.0'-27.0'  
**Type:** **Interval:**

**Locking Casing:** ☒ Yes ☐ No



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# WELL COMPLETION LOG

Well ID: **MW-4C**

**Project:** Old Erie Canal Supplemental FS  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/17/2006  
**Date Developed:** 11/20/2006

## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt-Wolff, Inc.  
**Type of Well:** Monitoring Well

**Static Water Level (ft bmp):** -1.06 **Date:** 11/28/06  
**Measuring Point:** TOC  
**Total Depth of Well (ft bmp):** 48.23

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** 4" Steel

## Sampling Method - Overburden:

**Type:** NA **Diameter:** NA  
**Weight:** NA **Fall:** NA  
**Interval:** NA

## Drilling Method - Bedrock:

**Type:** HX diamond bit **Diameter:** 3 3/4" OD  
**Casing:** NA

## Sampling Method - Bedrock:

**Type:** HX Core **Diameter:** 3 3/4" OD  
**Interval:** 40.0' - 50.0'

## Riser Pipe Left in Place:

**Material:** Sch. 40 PVC **Diameter:** 2" ID  
**Length:** 38.2' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch. 40 PVC **Diameter:** 2" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

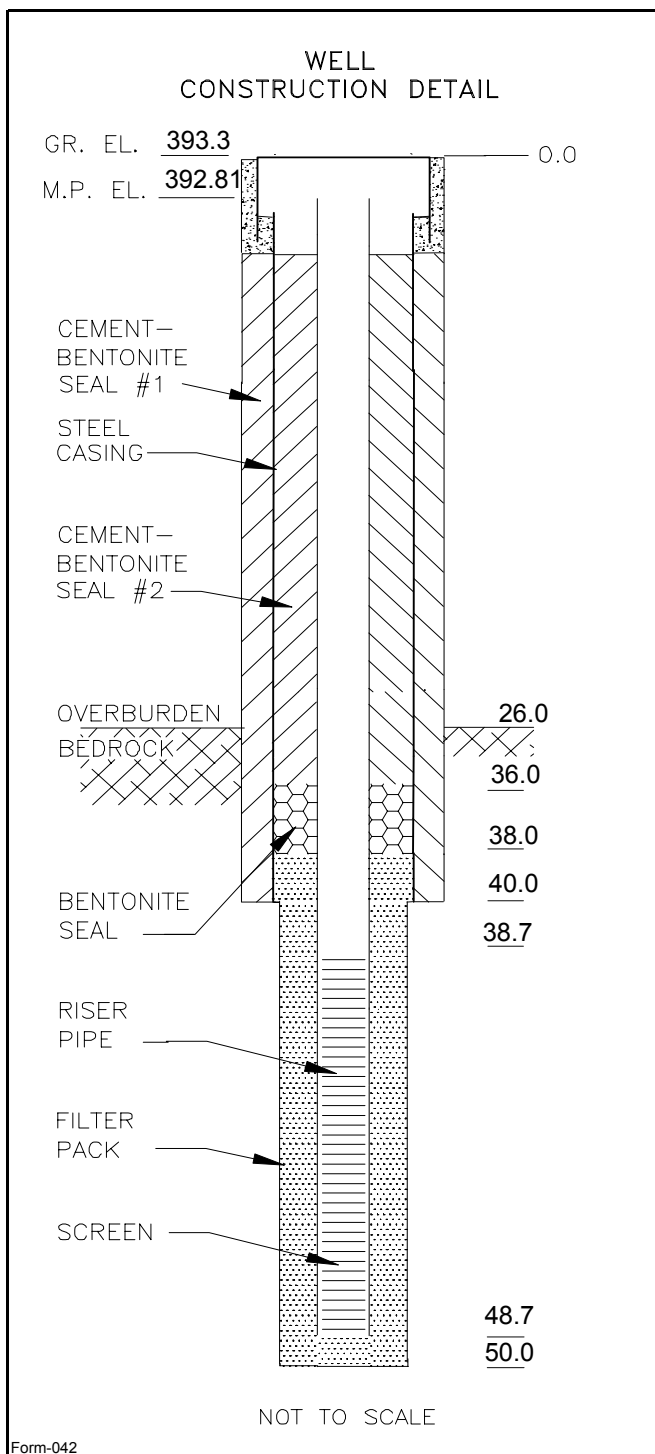
## Filter Pack:

**Type:** Sand **Grade:** # 0 Morie  
**Interval:** 38.0 - 50.0'

## Seal(s):

**Type:** Cement-Bentonite Seal #1 **Interval:** 0.0' - 40.0'  
**Type:** Bentonite Seal **Interval:** 36.0'-38.0'  
**Type:** **Interval:**

**Locking Casing:** ☒ Yes ☐ No



# WELL COMPLETION LOG

Well ID: **MW-5B**

**Project:** Old Erie Canal Supplemental FS  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/16/2006  
**Date Developed:** 11/20 - 21/06

## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt-Wolff, Inc.  
**Type of Well:** Monitoring Well

**Static Water Level (ft bmp):** NA **Date:** \_\_\_\_\_  
**Measuring Point:** TOC  
**Total Depth of Well (ft bmp):** 38.91

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** 4" Steel

## Sampling Method - Overburden:

**Type:** Split Spoon **Diameter:** 2" OD  
**Weight:** 140 # **Fall:** 30"  
**Interval:** 12.0' - 26.0'

## Drilling Method - Bedrock:

**Type:** HX diamond bit **Diameter:** 3 3/4" OD  
**Casing:** NA

## Sampling Method - Bedrock:

**Type:** HX Core **Diameter:** 3 3/4" OD  
**Interval:** 29.0' - 39.2'

## Riser Pipe Left in Place:

**Material:** Sch. 40 PVC **Diameter:** 2" ID  
**Length:** 28.9' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch. 40 PVC **Diameter:** 2" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

## Filter Pack:

**Type:** Sand **Grade:** # 0 Morie  
**Interval:** 27.0' - 39.2'

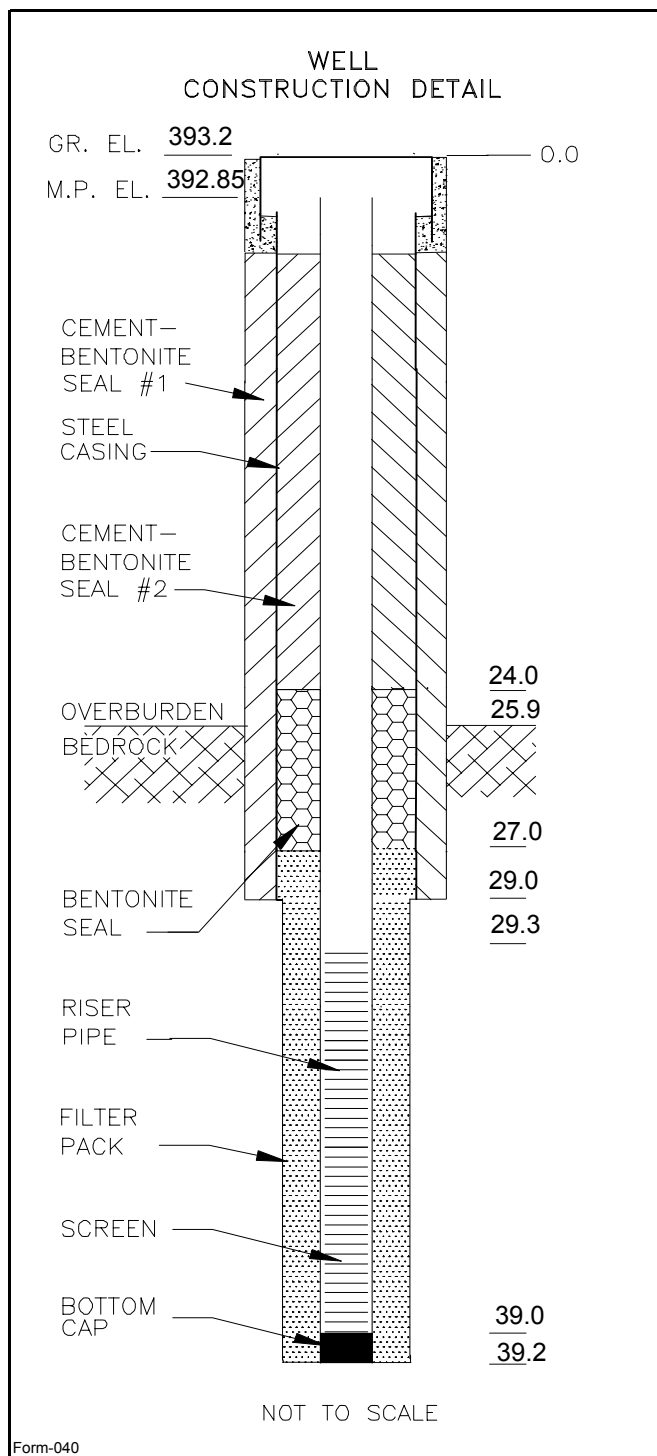
## Seal(s):

**Type:** Cement-Bentonite Seal #1 **Interval:** 0.0' - 29.0'  
**Type:** Bentonite Seal **Interval:** 24.0' - 27.0'  
**Type:** \_\_\_\_\_ **Interval:** \_\_\_\_\_

**Locking Casing:** ☒ Yes ☐ No



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# WELL COMPLETION LOG

Well ID: **MW-6B**

**Project:** Old Erie Canal Supplemental FS  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/15/2006  
**Date Developed:** 11/16/2006

## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt- Wolff, Inc.  
**Type of Well:** Monitoring Well

**Static Water Level (ft bmp):** 9.00 **Date:** 11/28/06  
**Measuring Point:** TOC  
**Total Depth of Well (ft bmp):** 41.26

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** 4" Steel

## Sampling Method - Overburden:

**Type:** Split Spoon **Diameter:** 2" OD  
**Weight:** 140 # **Fall:** 30"  
**Interval:** 0.0' - 26.0'

## Drilling Method - Bedrock:

**Type:** HX diamond bit **Diameter:** 3 3/4" OD  
**Casing:** NA

## Sampling Method - Bedrock:

**Type:** HX Core **Diameter:** 3 3/4" OD  
**Interval:** 29.0' - 39.4'

## Riser Pipe Left in Place:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Length:** 31.3' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

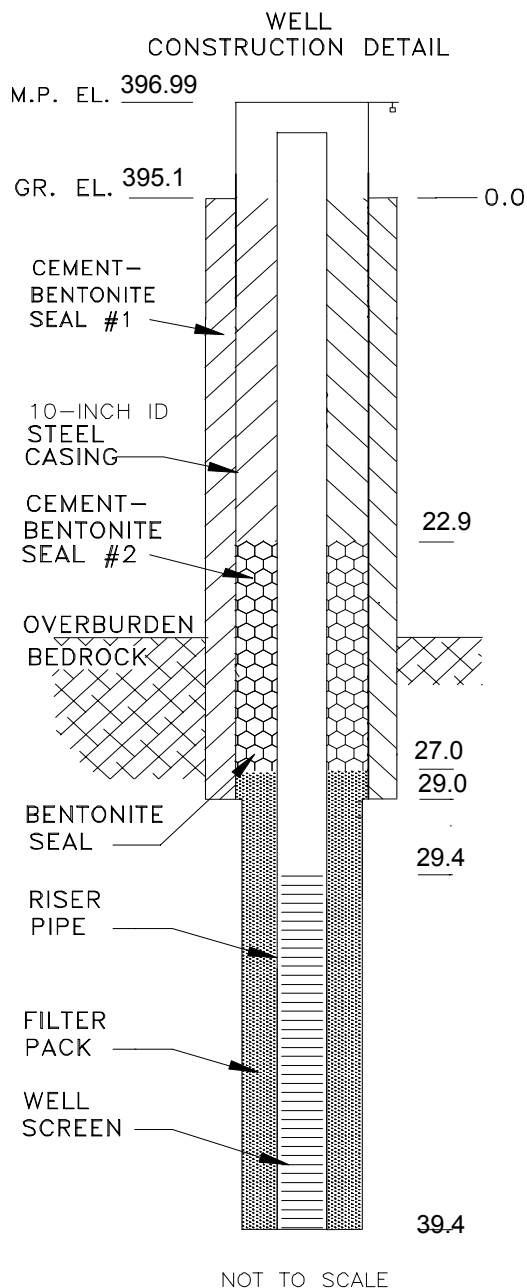
## Filter Pack:

**Type:** Sand **Grade:** # 0 Morie  
**Interval:** 27.0' - 39.3'

## Seal(s):

**Type:** Cement-Bentonite Seal #1 **Interval:** 0.0'-29.0'  
**Type:** Bentonite Seal **Interval:** 22.9'-27.0'  
**Type:** **Interval:**

**Locking Casing:** ☒ Yes ☐ No



Form-033



**OBRIEN & GERE**  
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# WELL COMPLETION LOG

Well ID: **MW-13S**

**Project:** Old Erie Canal Supplemental GW  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/2/2006  
**Date Developed:** 11/14/2006

## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt-Wolff, Inc  
**Type of Well:** Monitoring Well

**Static Water Level (ft bmp):** 3.05 **Date:** 11/8/06  
**Measuring Point:** Top of PVC  
**Total Depth of Well (ft bmp):** 18.71

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** NA

## Sampling Method - Overburden:

**Type:** Split-Spoon **Diameter:** 2" OD  
**Weight:** 140 # **Fall:** 30"  
**Interval:** 0.0'-20.0'

## Riser Pipe Left in Place:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Length:** 13.7' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

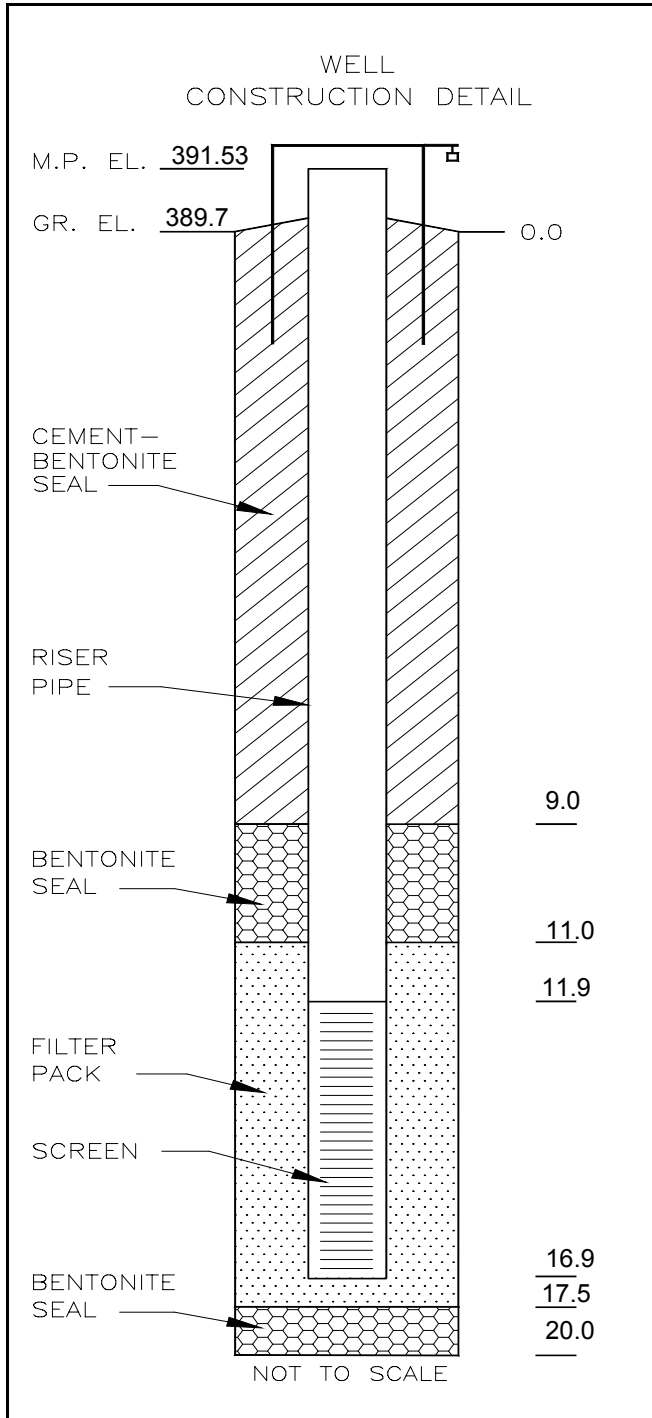
## Filter Pack:

**Type:** Sand **Grade:** # 0 Morie  
**Interval:** 11.0'-17.5'

## Seal(s):

**Type:** Cement-Bentonite **Interval:** 0.0'-2.5'  
**Type:** Bentonite Pellets **Interval:** 9.0'-11.0'  
**Type:** Bentonite Pellets **Interval:** 17.5'-20.0'

**Locking Casing:** ☒ Yes ☐ No

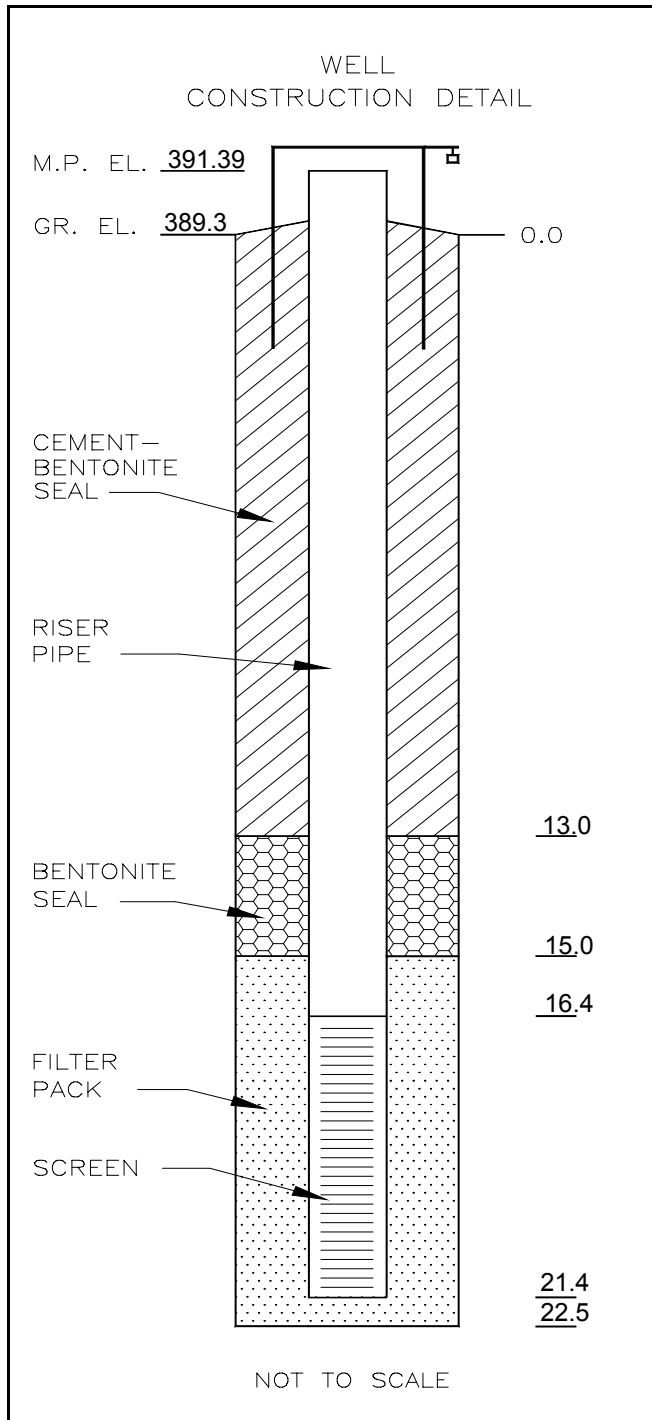


# WELL COMPLETION LOG

Well ID: **MW-14S**

**Project:** Old Erie Canal Supplemental GW  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/6/2006  
**Date Developed:** 11/15/2006



## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt-Wolff, Inc.  
**Type of Well:** Monitoring Well

**Static Water Level (ft bmp):** 5.51 **Date:** 11/8/06  
**Measuring Point:** Top of PVC  
**Total Depth of Well (ft bmp):** 23.55

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** NA

## Sampling Method - Overburden:

**Type:** Split-Spoon **Diameter:** 2" OD  
**Weight:** 140 # **Fall:** 30"  
**Interval:** 0.0'-22.5'

## Riser Pipe Left in Place:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Length:** 18.5' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

## Filter Pack:

**Type:** Sand **Grade:** #0 Morie  
**Interval:** 15.0'-22.5'

## Seal(s):

**Type:** Cement-Bentonite **Interval:** 0.0'-13.0'  
**Type:** Bentonite Pellets **Interval:** 13.0'-15.0'  
**Type:** **Interval:**

**Locking Casing:** ☒ Yes ☐ No

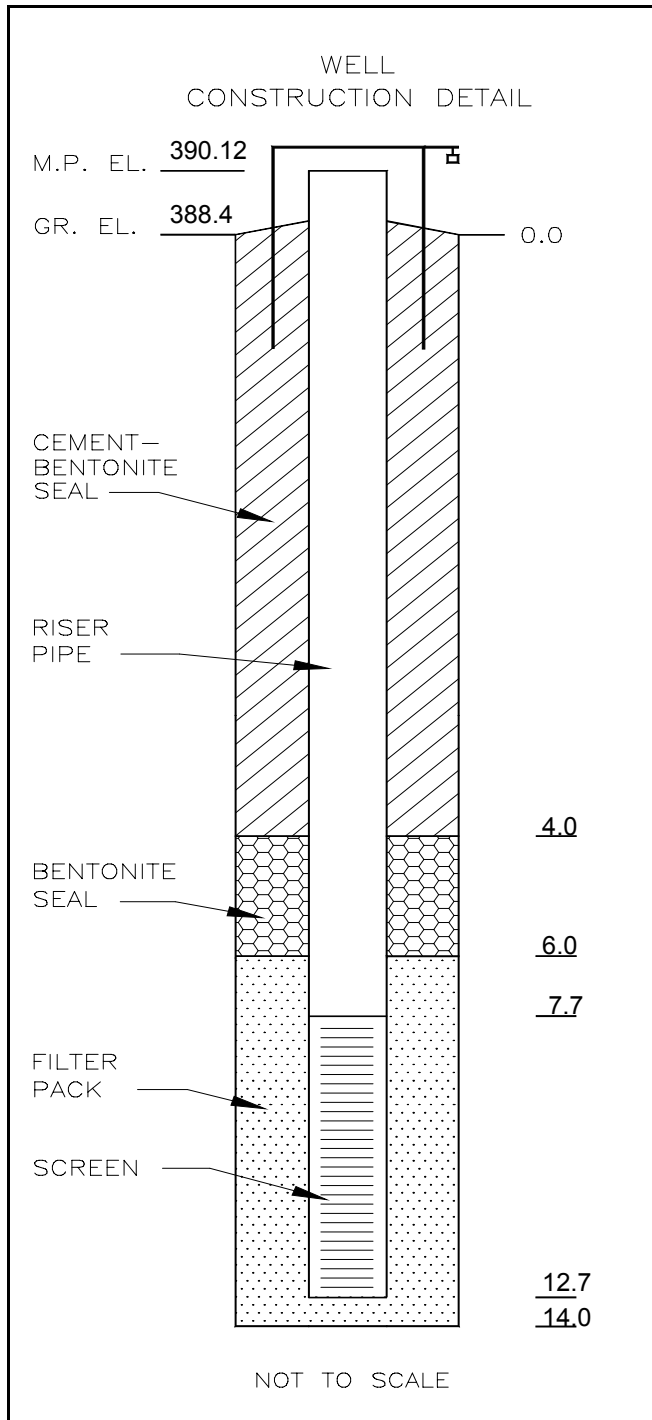


# WELL COMPLETION LOG

Well ID: **MW-15S**

**Project:** Old Erie Canal Supplemental GW  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/7/2006  
**Date Developed:** 11/15/2006



## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt-Wolff, Inc.  
**Type of Well:** Monitoring Well

**Static Water Level (ft bmp):** 2.19 **Date:** 11/8/06  
**Measuring Point:** Top of PVC  
**Total Depth of Well (ft bmp):** 14.42

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** NA

## Sampling Method - Overburden:

**Type:** Split-Spoon **Diameter:** 2" OD  
**Weight:** 140 # **Fall:** 30"  
**Interval:** 0.0'-14.0'

## Riser Pipe Left in Place:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Length:** 9.4' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

## Filter Pack:

**Type:** Sand **Grade:** #0 Morie  
**Interval:** 6.0'-14.0'

## Seal(s):

**Type:** Cement-Bentonite **Interval:** 0.0' - 4.0'  
**Type:** Bentonite Pellets **Interval:** 4.0' - 6.0'  
**Type:** **Interval:**

**Locking Casing:** ☒ Yes ☐ No





# WELL COMPLETION LOG

Well ID: **MW-16S**

**Project:** Old Erie Canal Supplemental GW  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/2/2006  
**Date Developed:** 11/14/2006

## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt-Wolff, Inc.  
**Type of Well:** Monitoring Well

**Static Water Level (ft bmp):** 2.97 **Date:** 11/8/06  
**Measuring Point:** Top of PVC  
**Total Depth of Well (ft bmp):** 8.92

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** NA

## Sampling Method - Overburden:

**Type:** Split-Spoon **Diameter:** 2" OD  
**Weight:** 140 # **Fall:** 30"  
**Interval:** 0.0'-10.0'

## Riser Pipe Left in Place:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Length:** 3.9' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch 40 PVC **Diameter:** 2" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

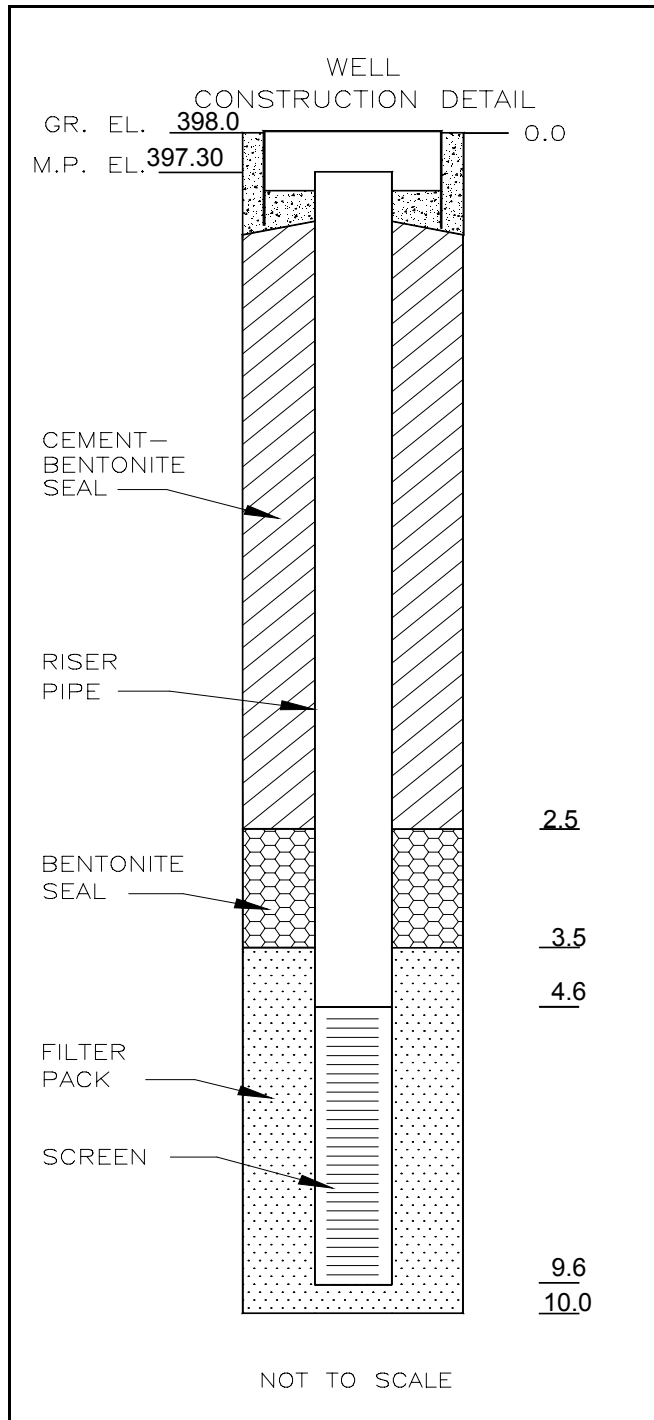
## Filter Pack:

**Type:** Sand **Grade:** # 0 Morie  
**Interval:** 3.5'-10.0'

## Seal(s):

**Type:** Cement-Bentonite **Interval:** 0.0' - 2.5'  
**Type:** Bentonite Pellets **Interval:** 2.5' - 3.5'  
**Type:** **Interval:**

**Locking Casing:** ☒ Yes ☐ No



# WELL COMPLETION LOG

Well ID: **MW-16B**

**Project:** Old Erie Canal Supplemental FS  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/15/2006  
**Date Developed:** 11/16, 21/06

## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt-Wolff, Inc.  
**Type of Well:** Monitoring Well

**Static Water Level (ft bmp):** 3.88 **Date:** 11/28/06  
**Measuring Point:** TOC  
**Total Depth of Well (ft bmp):** 43.13

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** 4" Steel

## Sampling Method - Overburden:

**Type:** Split Spoon **Diameter:** 2" OD  
**Weight:** 140 # **Fall:** 30"  
**Interval:** 9.0' - 31.0'

## Drilling Method - Bedrock:

**Type:** HX diamond bit **Diameter:** 3 3/4" OD  
**Casing:** NA

## Sampling Method - Bedrock:

**Type:** HX Core **Diameter:** 3 3/4" OD  
**Interval:** 34.0' - 44.0'

## Riser Pipe Left in Place:

**Material:** Sch. 40 PVC **Diameter:** 2" ID  
**Length:** 33.1' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch. 40 PVC **Diameter:** 2" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

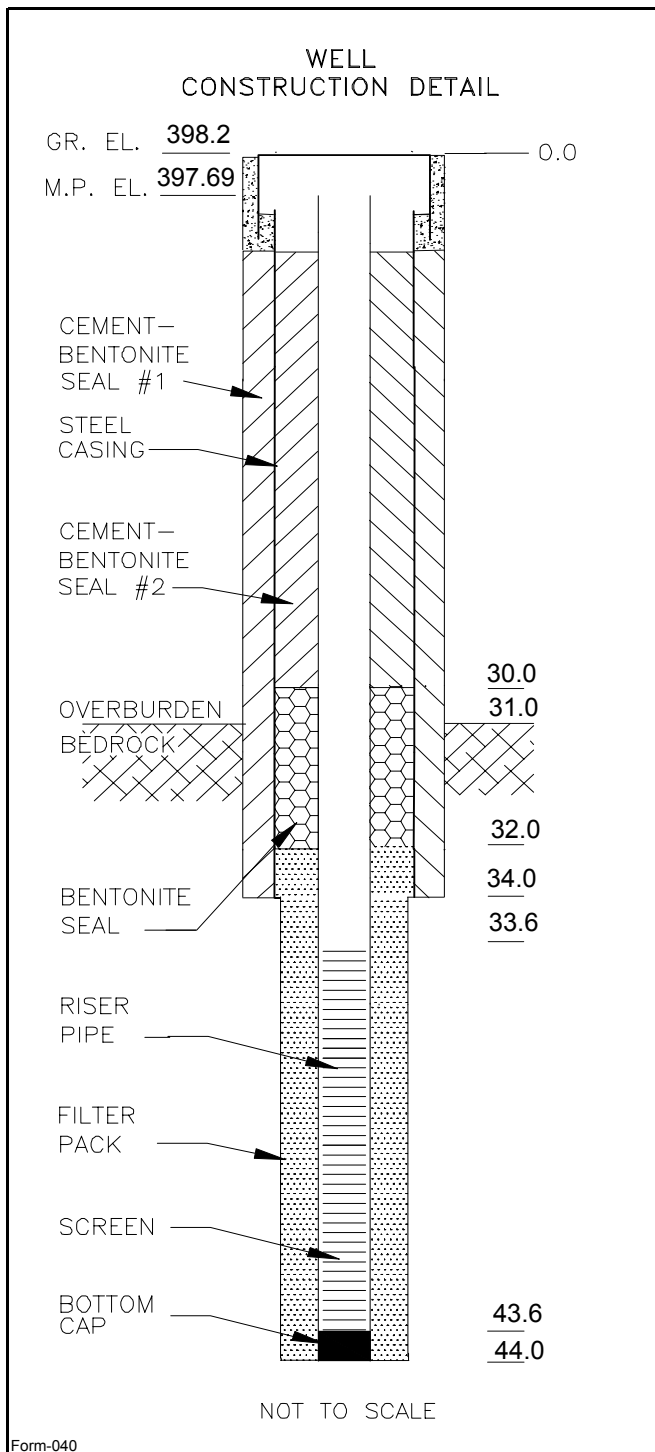
## Filter Pack:

**Type:** Sand **Grade:** # 0 Morie  
**Interval:** 32.0' - 44.0'

## Seal(s):

**Type:** Cement-Bentonite Seal #1 **Interval:** 0.0' - 34.0'  
**Type:** Bentonite Seal **Interval:** 30.0'-32.0'  
**Type:** **Interval:**

**Locking Casing:** ☒ Yes ☐ No



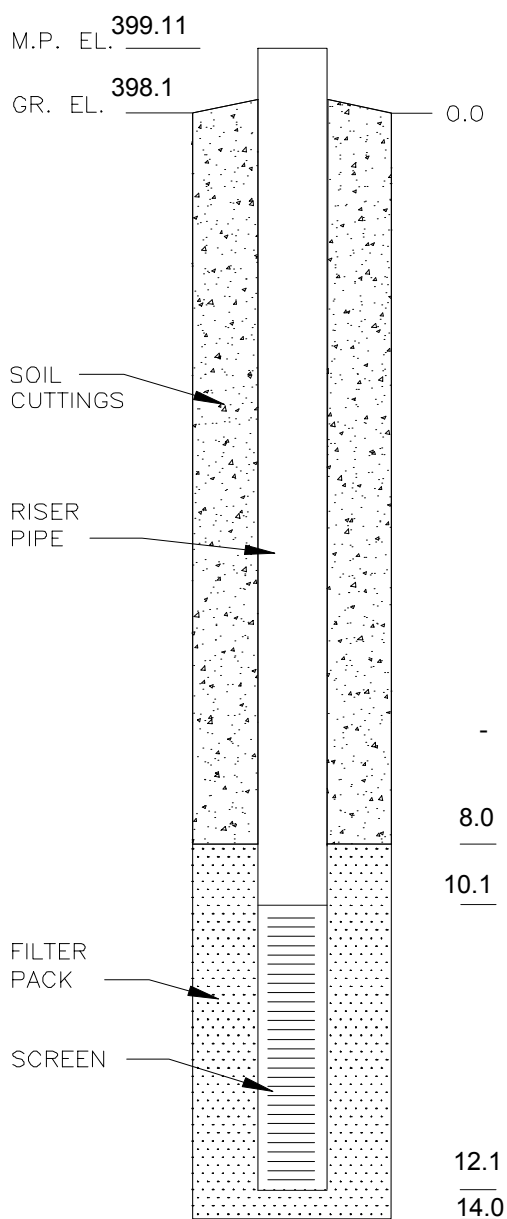
# WELL COMPLETION LOG

Well ID: TMW-1

Project: Old Erie Canal Supplemental GW  
Location: Clyde, New York  
Project No.: 39892.001.102

Client: Parker-Hannifin  
Date Drilled: 11/3/2006  
Date Developed: 11/14, 20/2006

## WELL CONSTRUCTION DETAIL



## Inspection Notes:

Inspector: P. D'Annibale  
Drilling Contractor: Parratt-Wolff, Inc  
Type of Well: Temporary Monitoring Well

Static Water Level (ft bmp): 3.93 Date: 11/8/06  
Measuring Point: Top of PVC  
Total Depth of Well (ft bmp): 13.09

## Drilling Method - Overburden:

Type: HSA Diameter: 4 1/4" ID  
Casing: NA

## Sampling Method - Overburden:

Type: Split-Spoon Diameter: 2" OD  
Weight: 140 # Fall: 30"  
Interval: 0.0'-14.0'

## Riser Pipe Left in Place:

Material: Sch 40 PVC Diameter: 2" ID  
Length: 11.1' Joint Type: Flush Thread

## Screen:

Material: Sch 40 PVC Diameter: 2" ID  
Slot Size: 0.010 Joint Type: Flush Thread

## Filter Pack:

Type: Sand Grade: # 0 Morie  
Interval: 8.0'-14.0'

## Seal(s):

Type: Cement-Bentonite Interval: NA  
Type: Bentonite Pellets Interval: NA  
Type:  Interval:

Locking Casing: ☐ Yes ☒ No



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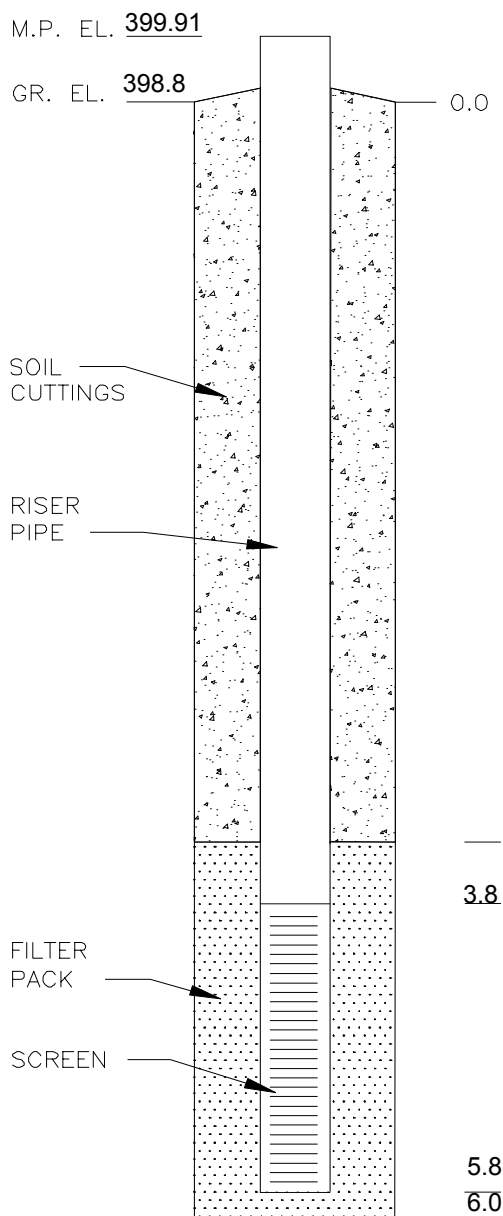
# WELL COMPLETION LOG

Well ID: TMW-2

**Project:** Old Erie Canal Supplemental GW  
**Location:** Clyde, New York  
**Project No.:** 39892.001.102

**Client:** Parker-Hannifin  
**Date Drilled:** 11/3/2006  
**Date Developed:** 11/14/2006

## WELL CONSTRUCTION DETAIL



## Inspection Notes:

**Inspector:** P. D'Annibale  
**Drilling Contractor:** Parratt-Wolff, Inc  
**Type of Well:** Temporary Monitoring Well

**Static Water Level (ft bmp):** 4.48 **Date:** 11/8/06  
**Measuring Point:** Top of PVC  
**Total Depth of Well (ft bmp):** 6.86

## Drilling Method - Overburden:

**Type:** HSA **Diameter:** 4 1/4" ID  
**Casing:** NA

## Sampling Method - Overburden:

**Type:** Split-Spoon **Diameter:** 2" OD  
**Weight:** 140 # **Fall:** 30"  
**Interval:** 0.0'-6.0'

## Riser Pipe Left in Place:

**Material:** Sch 40 PVC **Diameter:** 1" ID  
**Length:** 4.9' **Joint Type:** Flush Thread

## Screen:

**Material:** Sch 40 PVC **Diameter:** 1" ID  
**Slot Size:** 0.010 **Joint Type:** Flush Thread

## Filter Pack:

**Type:** Backfill **Grade:**   
**Interval:** 0.0'-6.0'

## Seal(s):

**Type:**  **Interval:**   
**Type:**  **Interval:**   
**Type:**  **Interval:**

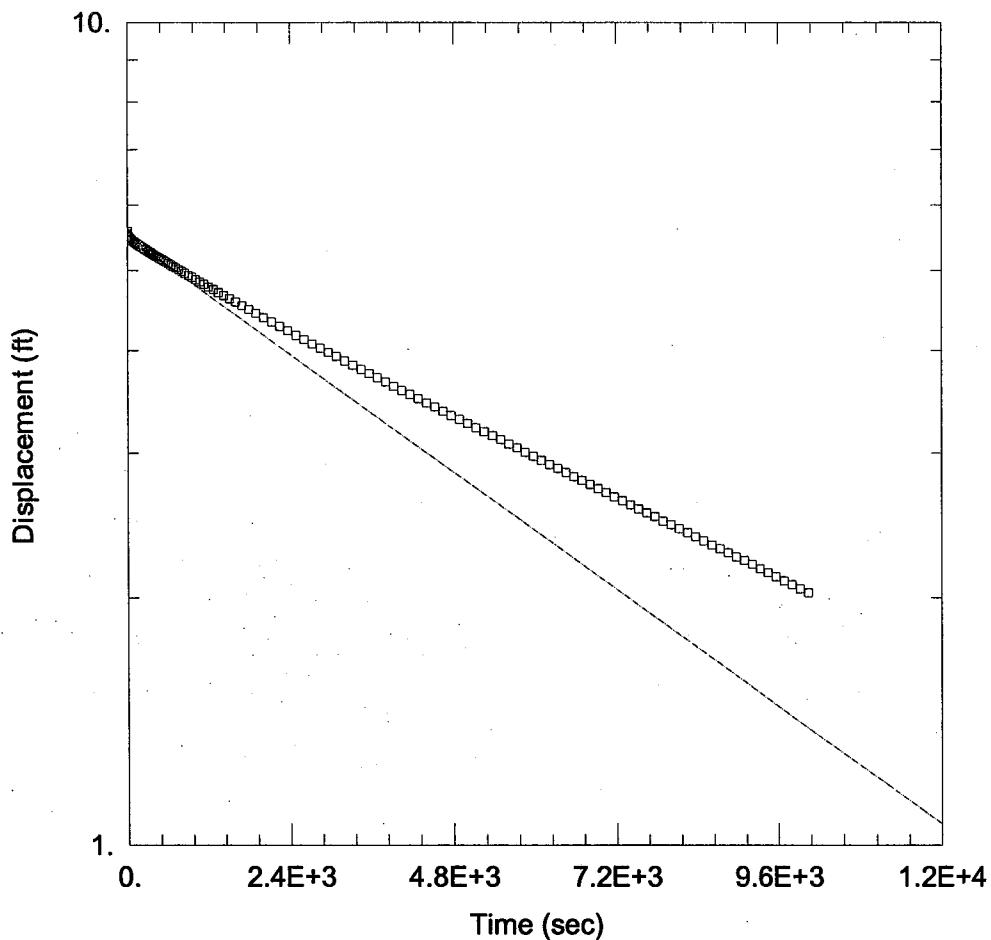
**Locking Casing:** ☐ Yes ☒ No



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## **APPENDIX C**

### **Hydraulic Conductivity Test Results**



### WELL TEST ANALYSIS

Data Set: I:\...MW-3B test1.aqt

Date: 03/23/07

Time: 13:17:15

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-3B

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 29.63 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-3B test1)

Initial Displacement: 5.576 ft

Static Water Column Height: 29.63 ft

Total Well Penetration Depth: 29.63 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

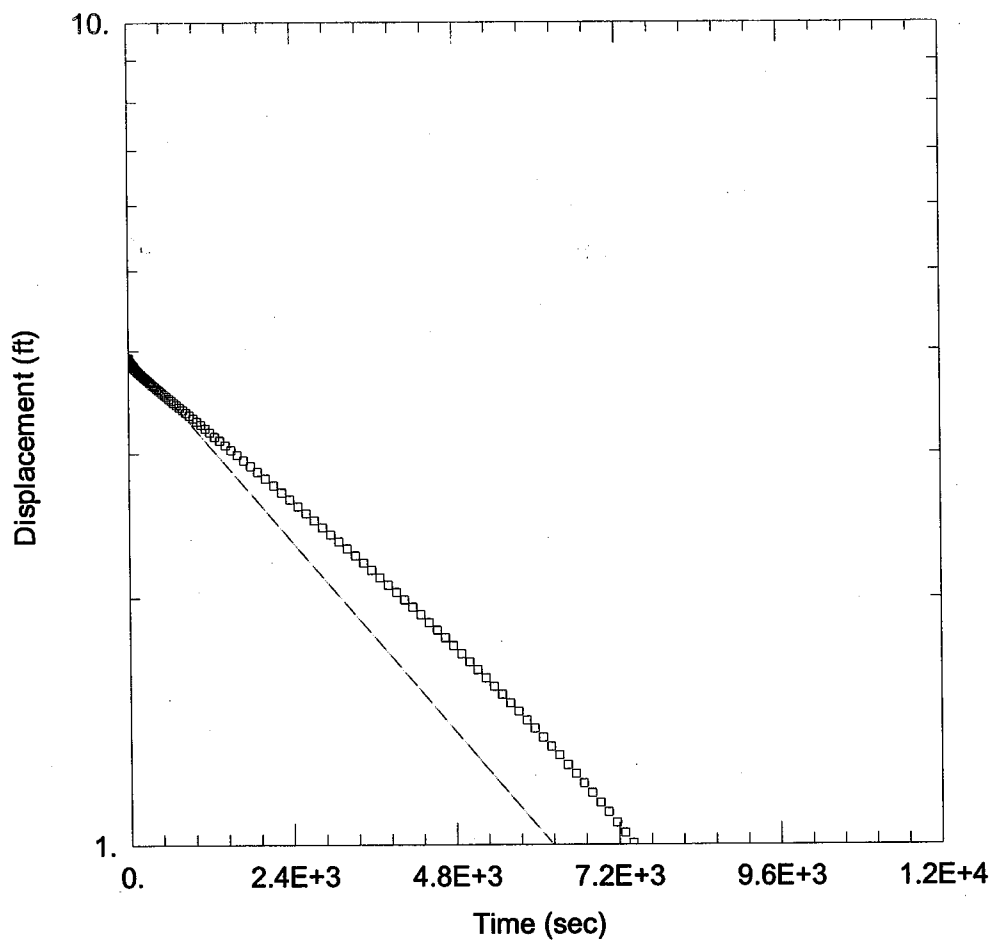
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 5.538E-6$  cm/sec

$y_0 = 5.496$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-3B test2.aqt

Date: 03/23/07

Time: 13:17:12

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-3B

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 30.78 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-3B test2)

Initial Displacement: 3.923 ft

Static Water Column Height: 30.78 ft

Total Well Penetration Depth: 30.78 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

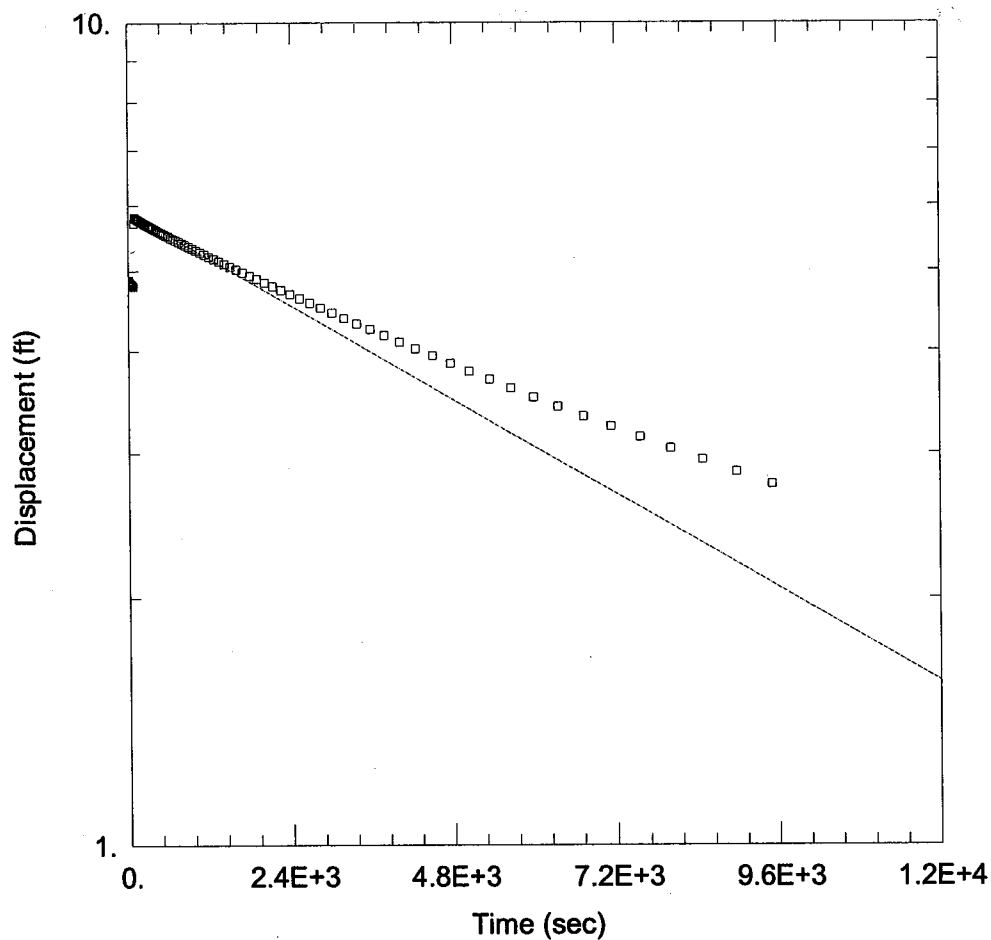
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 9.029E-6$  cm/sec

$y_0 = 3.989$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-3B test3.aqt

Date: 03/23/07

Time: 13:17:08

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-3B

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 29.63 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-3B test3)

Initial Displacement: 4.877 ft

Static Water Column Height: 29.63 ft

Total Well Penetration Depth: 29.63 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

### SOLUTION

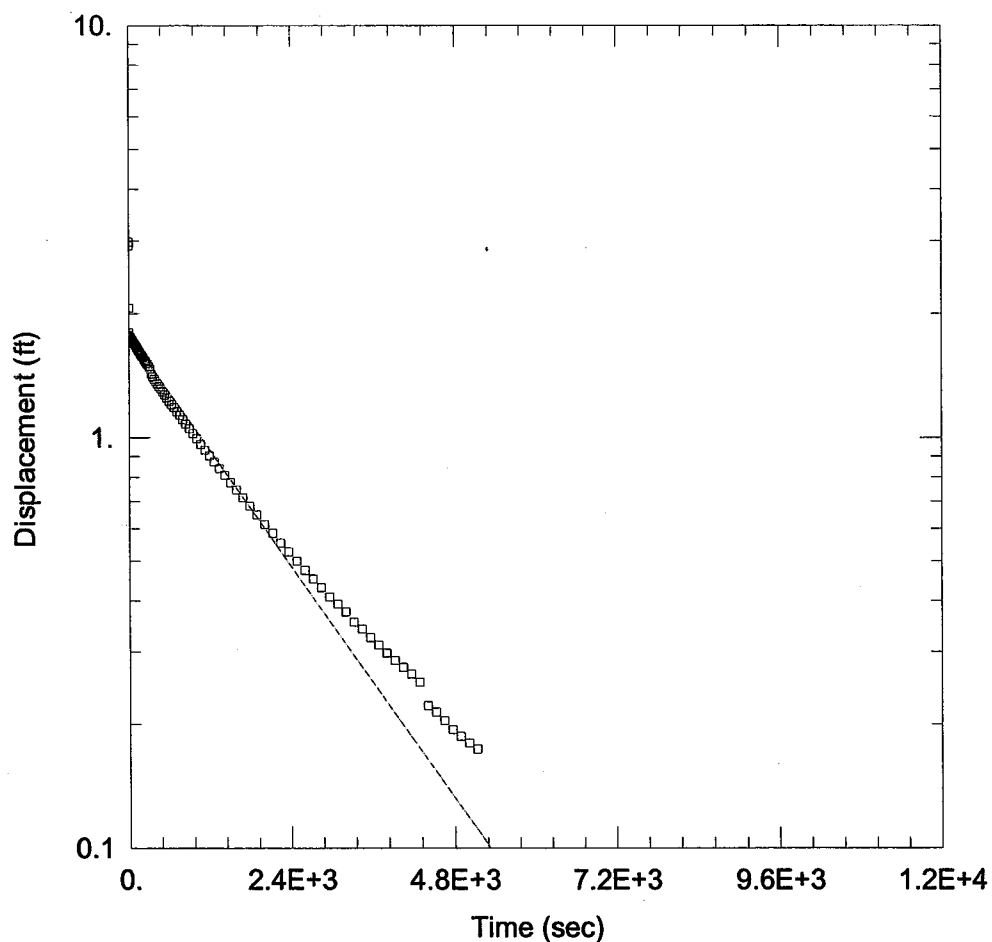
Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 4.43E-6$  cm/sec

$y_0 = 5.899$  ft





### WELL TEST ANALYSIS

Data Set: I:\...\MW-4C test1.aqt

Date: 03/23/07

Time: 13:17:04

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-4C

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 48.23 ft

Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-4C test1)

Initial Displacement: 2.982 ft

Static Water Column Height: 48.23 ft

Total Well Penetration Depth: 48.23 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

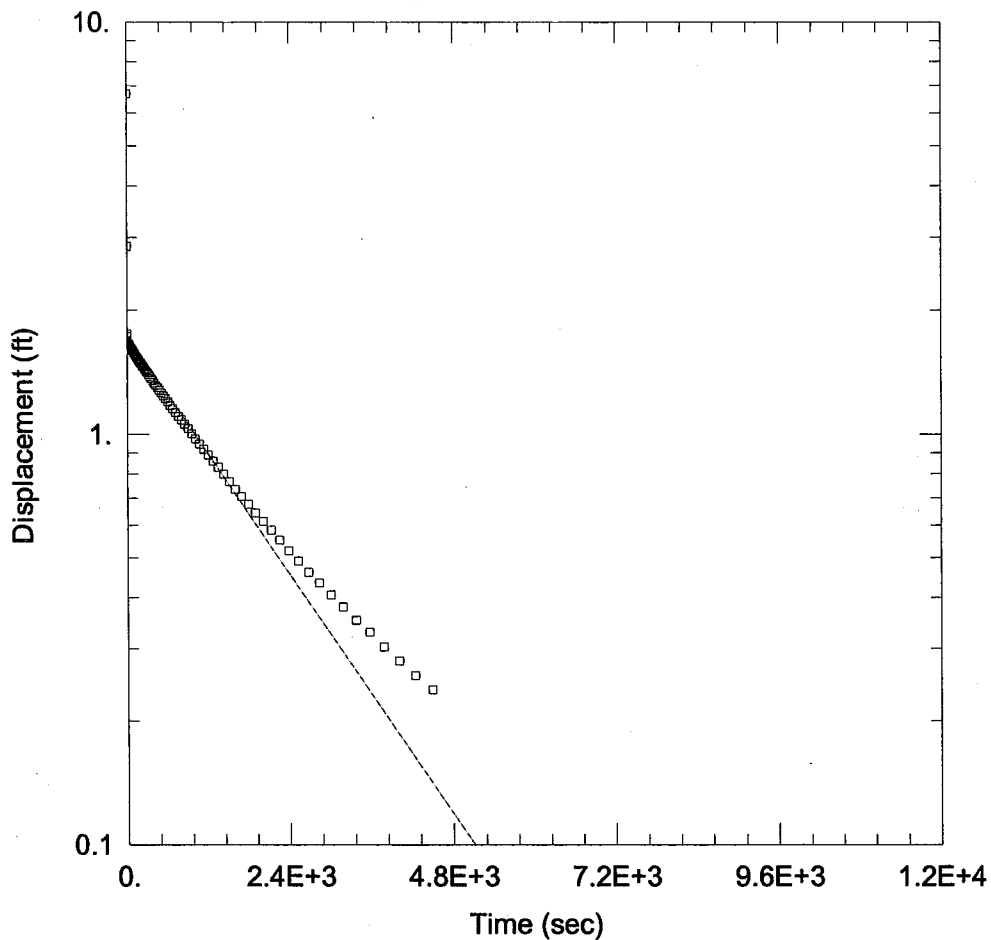
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 2.353E-5 cm/sec

y0 = 1.784 ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-4C test2.aqt

Date: 03/23/07

Time: 13:17:00

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-4C

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 48.08 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-4C test2)

Initial Displacement: 6.692 ft

Static Water Column Height: 48.08 ft

Total Well Penetration Depth: 48.08 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

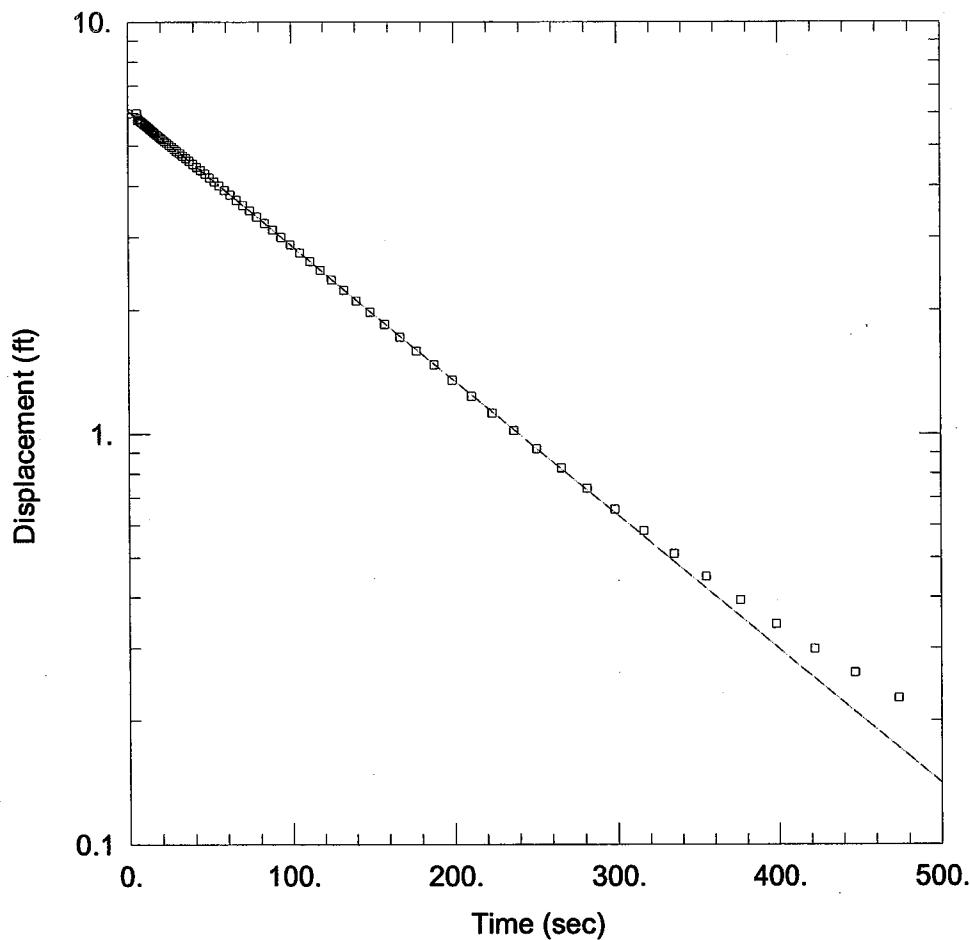
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 2.426E-5$  cm/sec

$y_0 = 1.74$  ft



### WELL TEST ANALYSIS

Data Set: I:\...MW-6B test1.aqt

Date: 03/23/07

Time: 13:16:57

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-6B

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 31.78 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-6B test1)

Initial Displacement: 5.991 ft

Static Water Column Height: 31.78 ft

Total Well Penetration Depth: 31.78 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

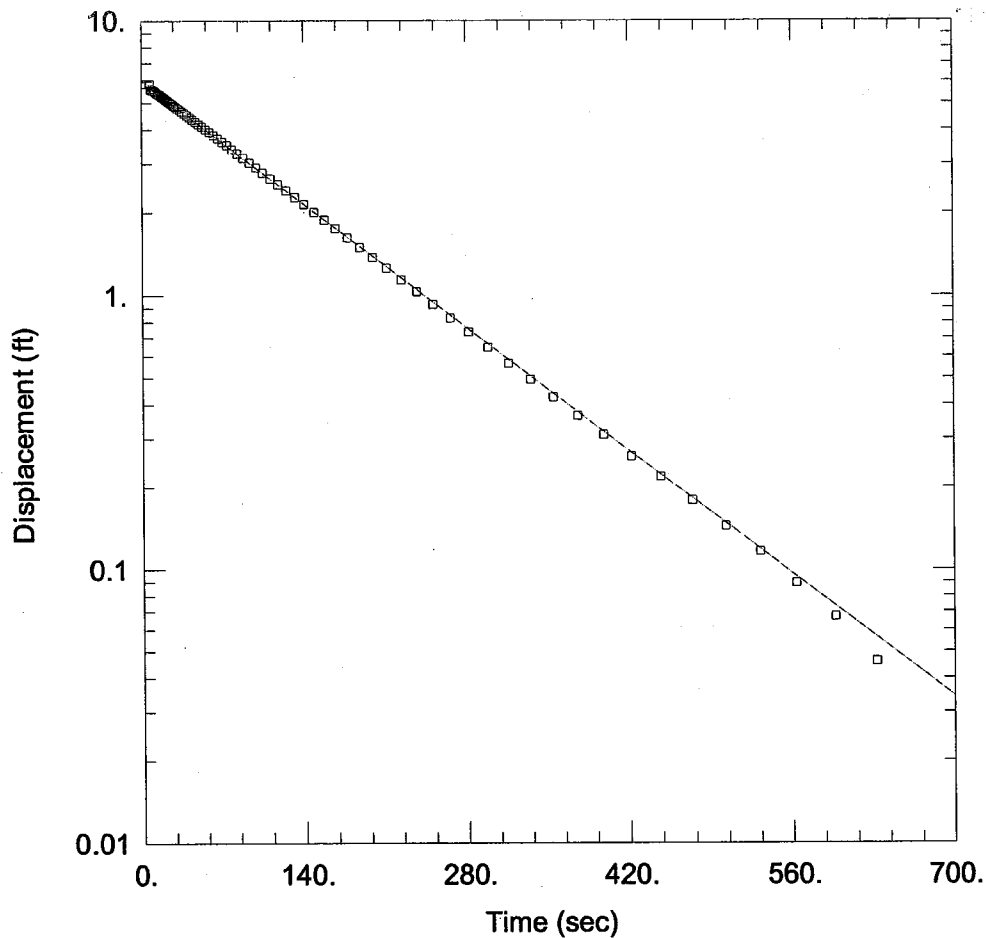
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0003073$  cm/sec

$y_0 = 6.077$  ft



### WELL TEST ANALYSIS

Data Set: I:\...MW-6B test2.aqt

Date: 03/23/07

Time: 13:16:54

### PROJECT INFORMATION

Company: OBG  
 Client: Parker Hannifin  
 Project: 39892.001.104  
 Location: Clyde NY  
 Test Well: MW-6B  
 Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 31.78 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-6B test2)

Initial Displacement: 5.882 ft  
 Total Well Penetration Depth: 31.78 ft  
 Casing Radius: 0.083 ft

Static Water Column Height: 31.78 ft  
 Screen Length: 10. ft  
 Wellbore Radius: 0.16 ft

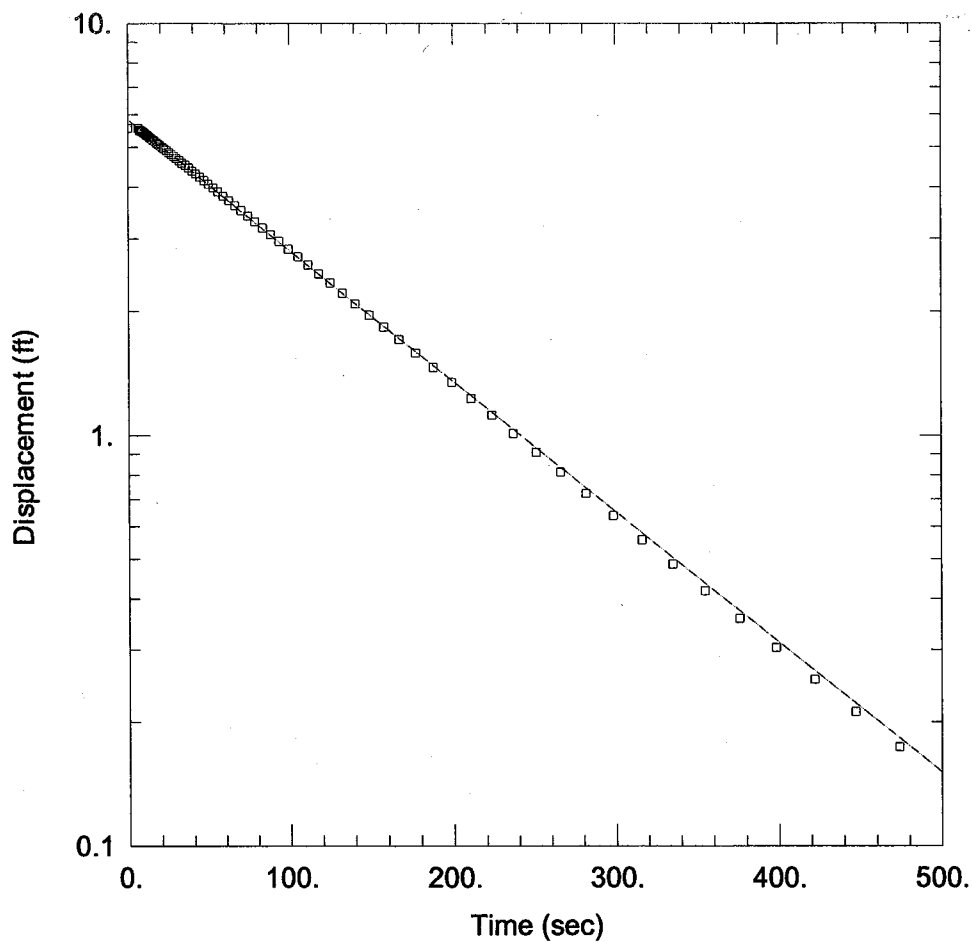
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0003016$  cm/sec

$y_0 = 6.03$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-6B test3.aqt

Date: 03/23/07

Time: 13:16:50

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-6B

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 32.45 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-6B test3)

Initial Displacement: 5.552 ft

Static Water Column Height: 32.45 ft

Total Well Penetration Depth: 32.45 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

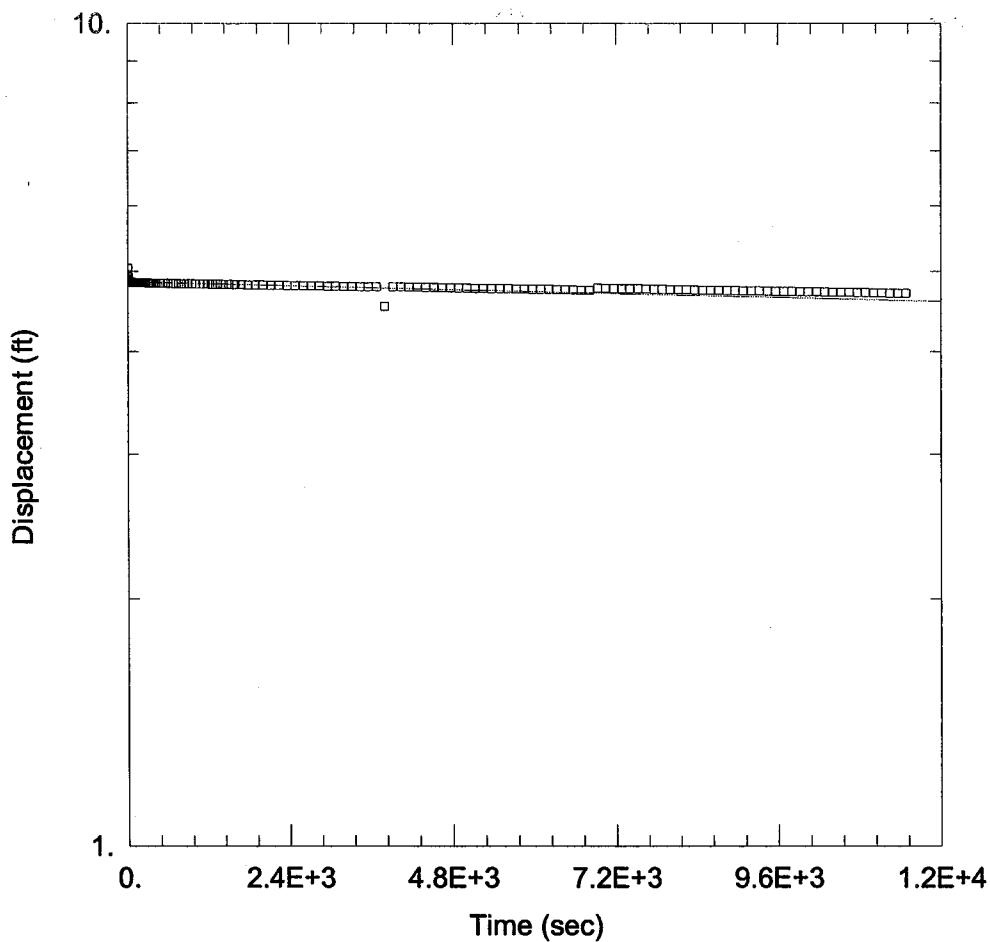
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0002993$  cm/sec

$y_0 = 5.83$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-16B test1.aqt

Date: 03/23/07

Time: 13:16:12

### PROJECT INFORMATION

Company: OBG  
 Client: Parker Hannifin  
 Project: 39892.001.104  
 Location: Clyde NY  
 Test Well: MW-16B  
 Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 36.57 ft

Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-16B test1)

Initial Displacement: 5.05 ft  
 Total Well Penetration Depth: 36.57 ft  
 Casing Radius: 0.083 ft

Static Water Column Height: 36.57 ft  
 Screen Length: 10. ft  
 Wellbore Radius: 0.16 ft

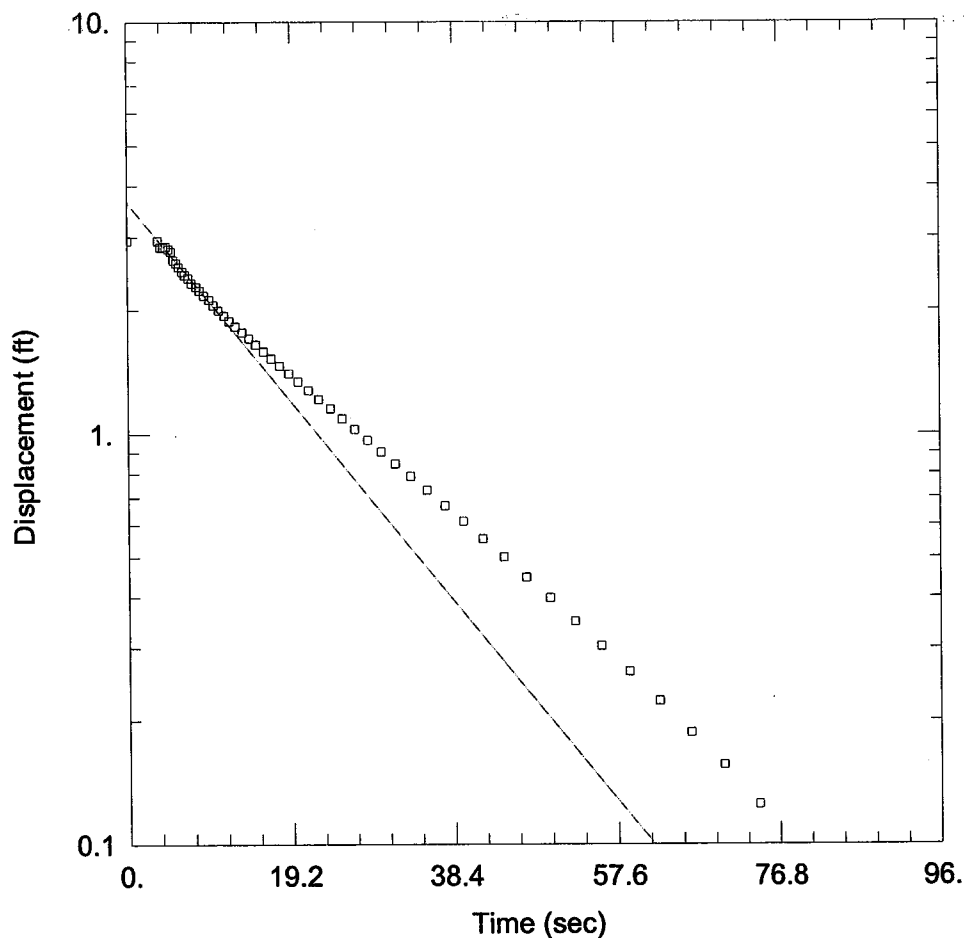
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 1.885E-7 cm/sec

y0 = 4.859 ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-13S test1.aqt

Date: 03/23/07

Time: 13:16:47

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-13S

Test Date: 12/8/06

### AQUIFER DATA

Saturated Thickness: 15.67 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-13S test1)

Initial Displacement: 2.944 ft

Static Water Column Height: 15.67 ft

Total Well Penetration Depth: 15.67 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

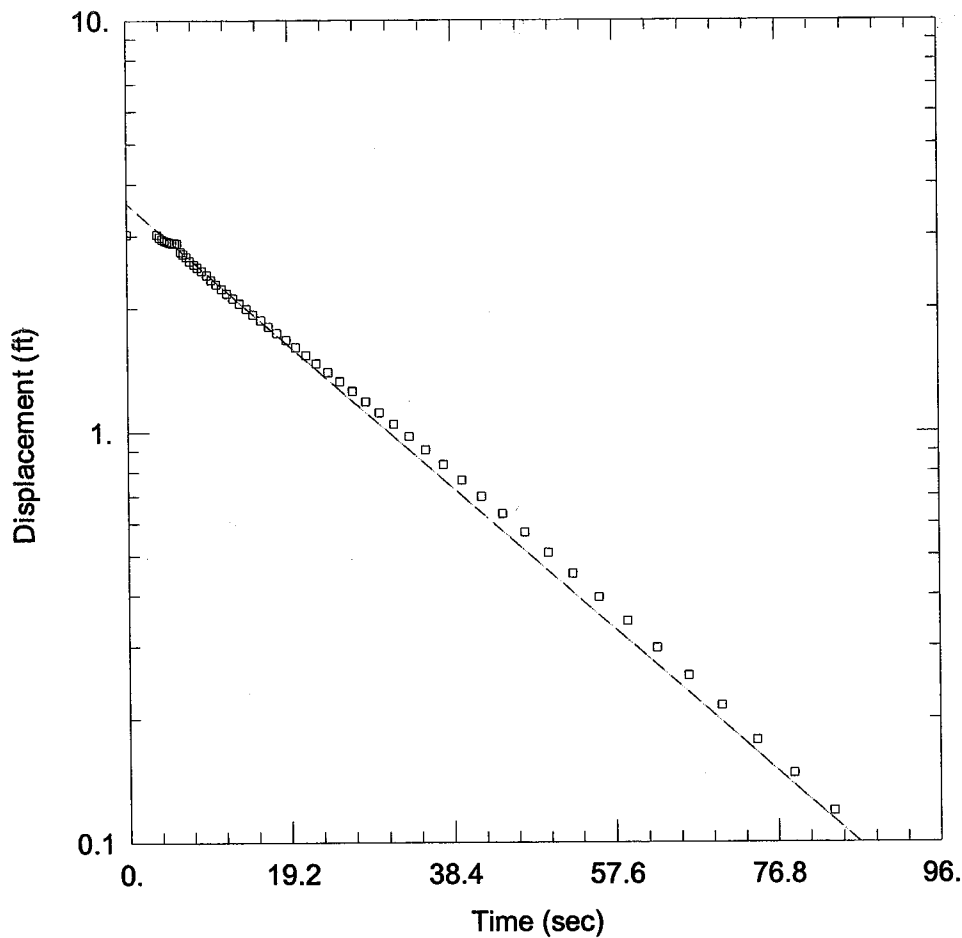
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.004021$  cm/sec

$y_0 = 3.654$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-13S test2.aqt

Date: 03/23/07

Time: 13:16:43

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-13S

Test Date: 12/8/06

### AQUIFER DATA

Saturated Thickness: 15.67 ft

Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-13S test2)

Initial Displacement: 3.02 ft

Static Water Column Height: 15.67 ft

Total Well Penetration Depth: 15.67 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

### SOLUTION

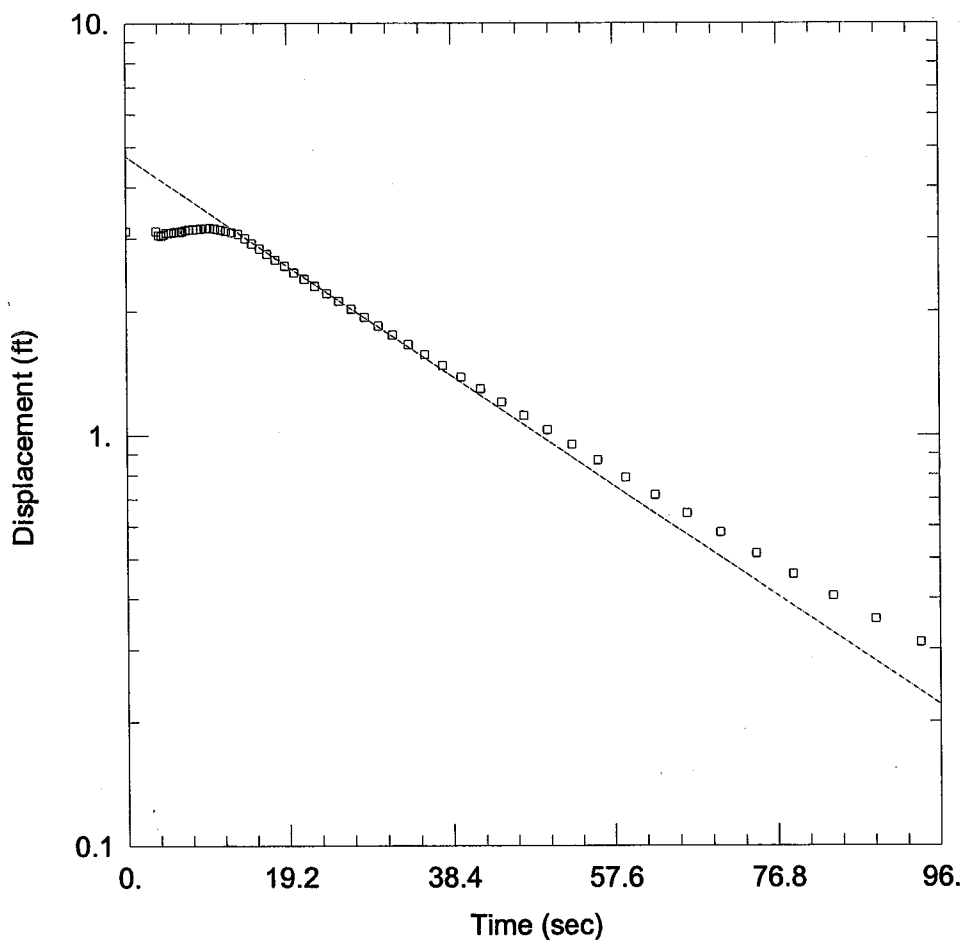
Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.00286 cm/sec

y0 = 3.59 ft





### WELL TEST ANALYSIS

Data Set: I:\...\MW-13S test3.aqt

Date: 03/23/07

Time: 13:16:40

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-13S

Test Date: 12/8/06

### AQUIFER DATA

Saturated Thickness: 15.67 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-13S test3)

Initial Displacement: 3.128 ft

Static Water Column Height: 15.67 ft

Total Well Penetration Depth: 15.67 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

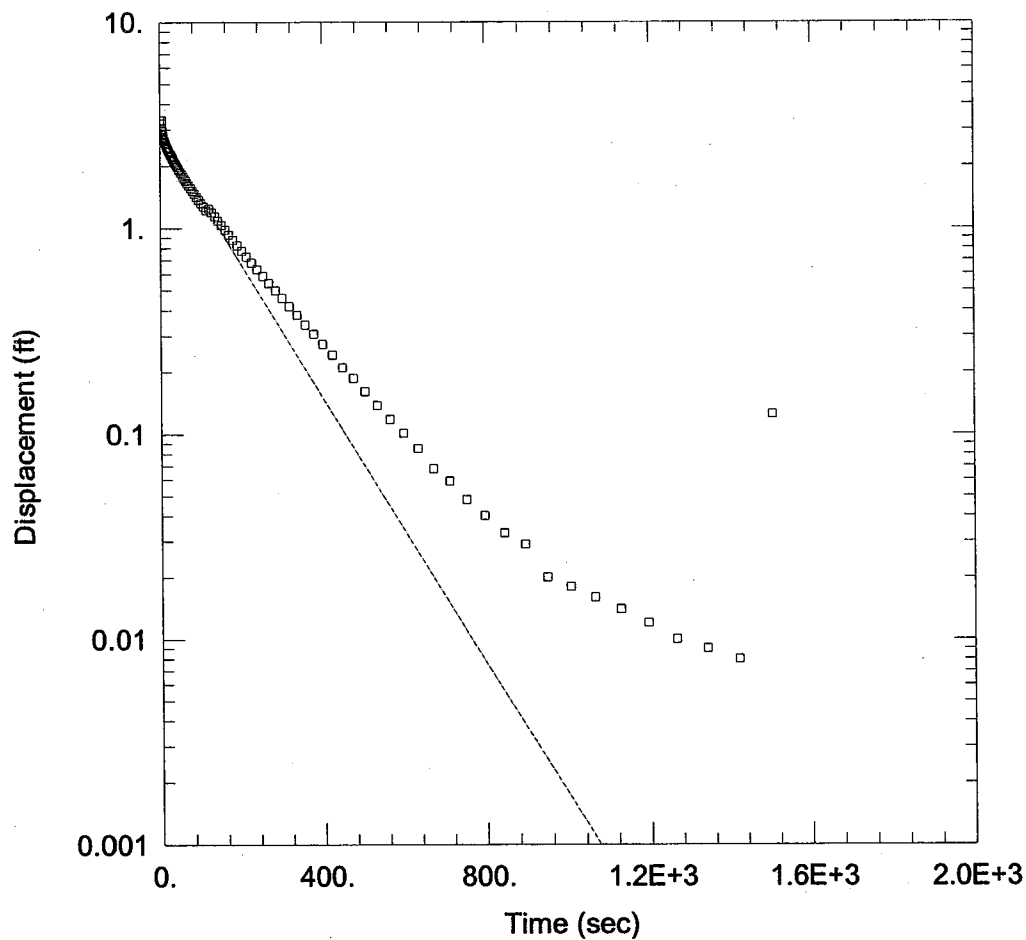
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.002208$  cm/sec

$y_0 = 4.751$  ft



### WELL TEST ANALYSIS

Data Set: I:\...MW-14S test1.aqt

Date: 03/23/07

Time: 13:16:36

### PROJECT INFORMATION

Company: OBG  
 Client: Parker Hannifin  
 Project: 39892.001.104  
 Location: Clyde NY  
 Test Well: MW-14S  
 Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 20.21 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-14S test1)

Initial Displacement: 3.342 ft  
 Total Well Penetration Depth: 20.21 ft  
 Casing Radius: 0.083 ft

Static Water Column Height: 20.21 ft  
 Screen Length: 5. ft  
 Wellbore Radius: 0.16 ft

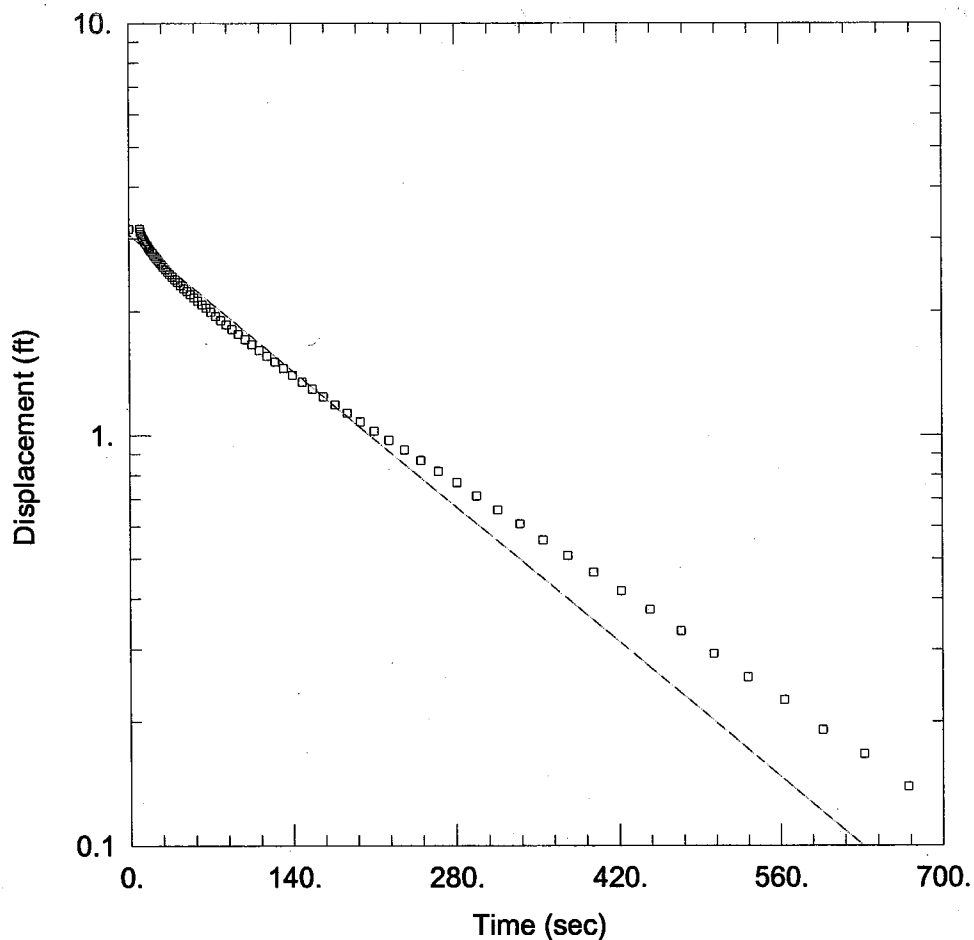
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0005346$  cm/sec

$y_0 = 2.889$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-14S test2.aqt

Date: 03/23/07

Time: 13:16:31

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-14S

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 20.21 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-14S test2)

Initial Displacement: 3.163 ft

Static Water Column Height: 20.21 ft

Total Well Penetration Depth: 20.21 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

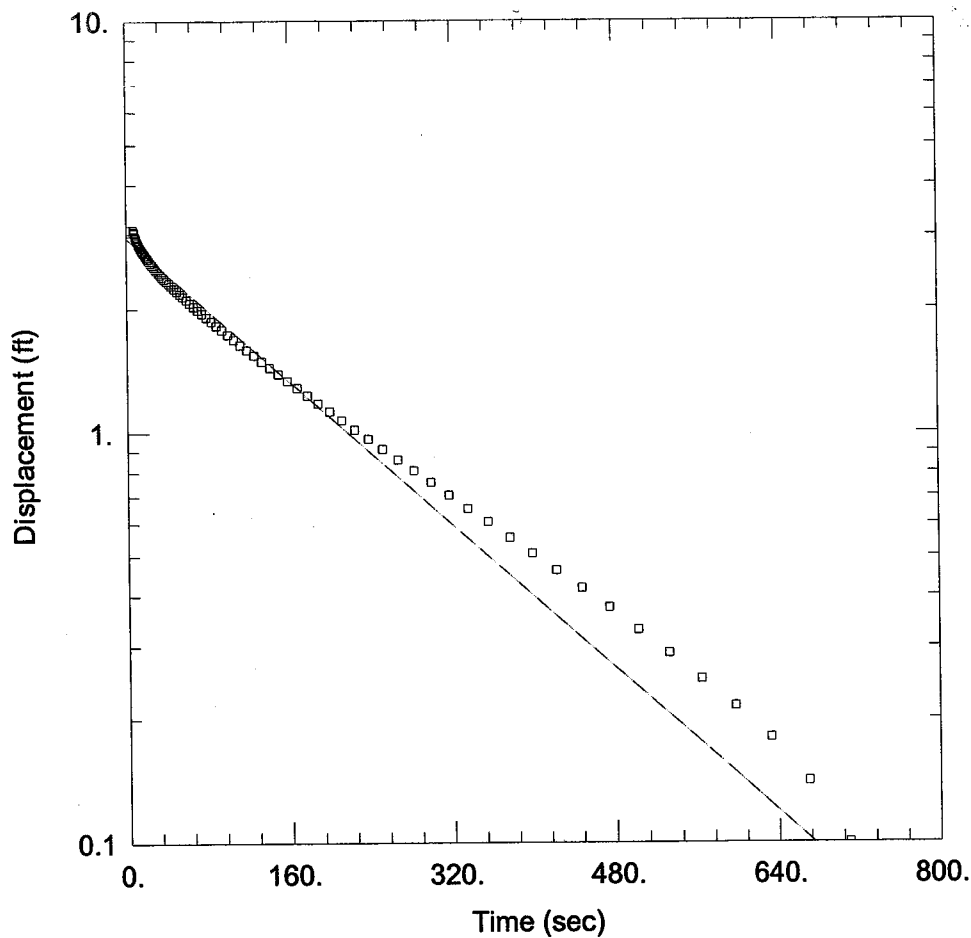
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0003905$  cm/sec

$y_0 = 3.069$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-14S test3.aqt

Date: 03/23/07

Time: 13:16:27

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-14S

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 20.21 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-14S test3)

Initial Displacement: 3.111 ft

Static Water Column Height: 20.21 ft

Total Well Penetration Depth: 20.21 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

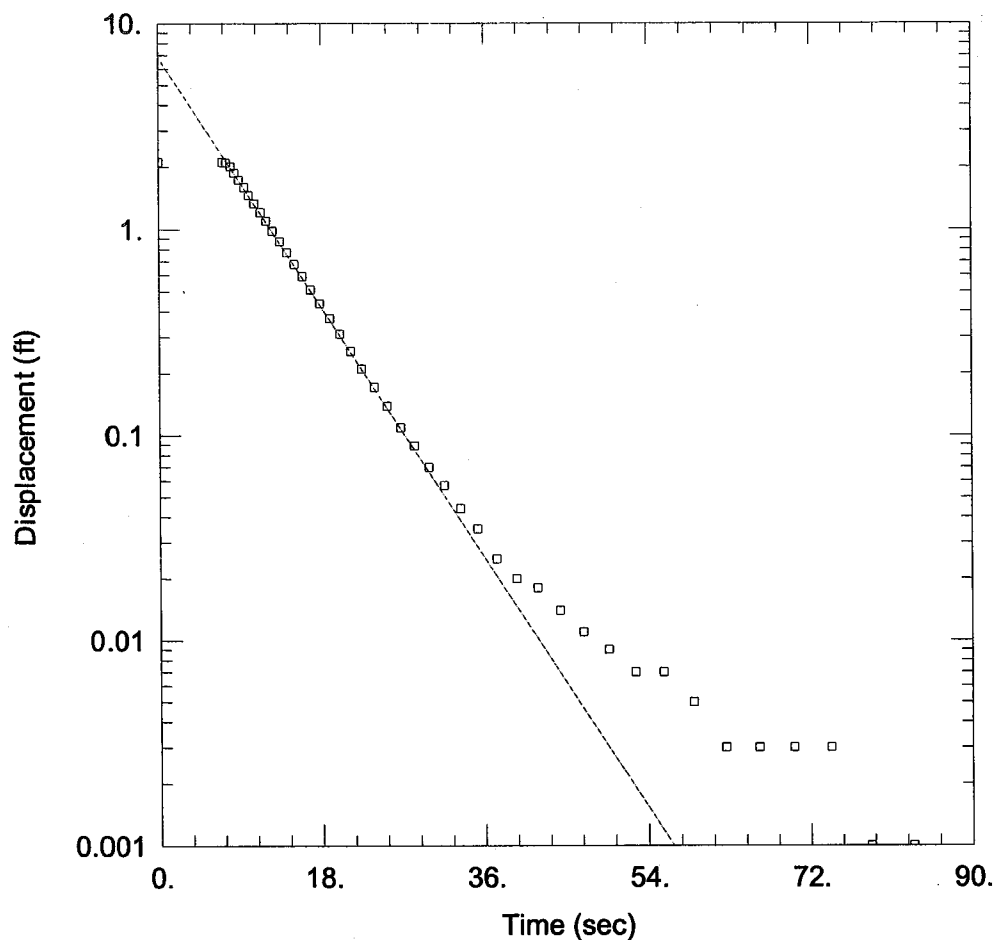
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0003619$  cm/sec

$y_0 = 2.97$  ft



### WELL TEST ANALYSIS

Data Set: I:\...MW-15S test1.aqt

Date: 03/23/07

Time: 13:16:23

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-15S

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 12.25 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-15S test1)

Initial Displacement: 2.112 ft

Static Water Column Height: 12.25 ft

Total Well Penetration Depth: 12.25 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

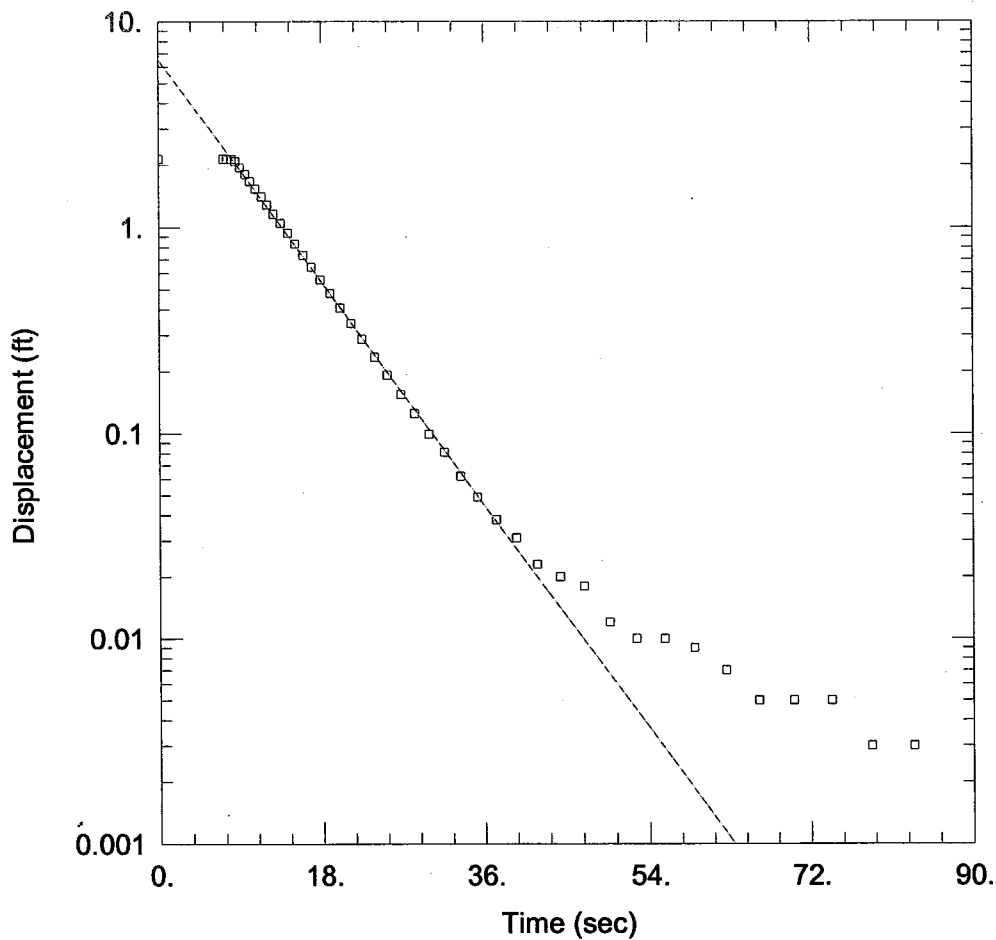
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.01028$  cm/sec

$y_0 = 6.869$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-15S test2.aqt

Date: 03/23/07

Time: 13:16:20

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-15S

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 12.25 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-15S test2)

Initial Displacement: 2.141 ft

Static Water Column Height: 12.25 ft

Total Well Penetration Depth: 12.25 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

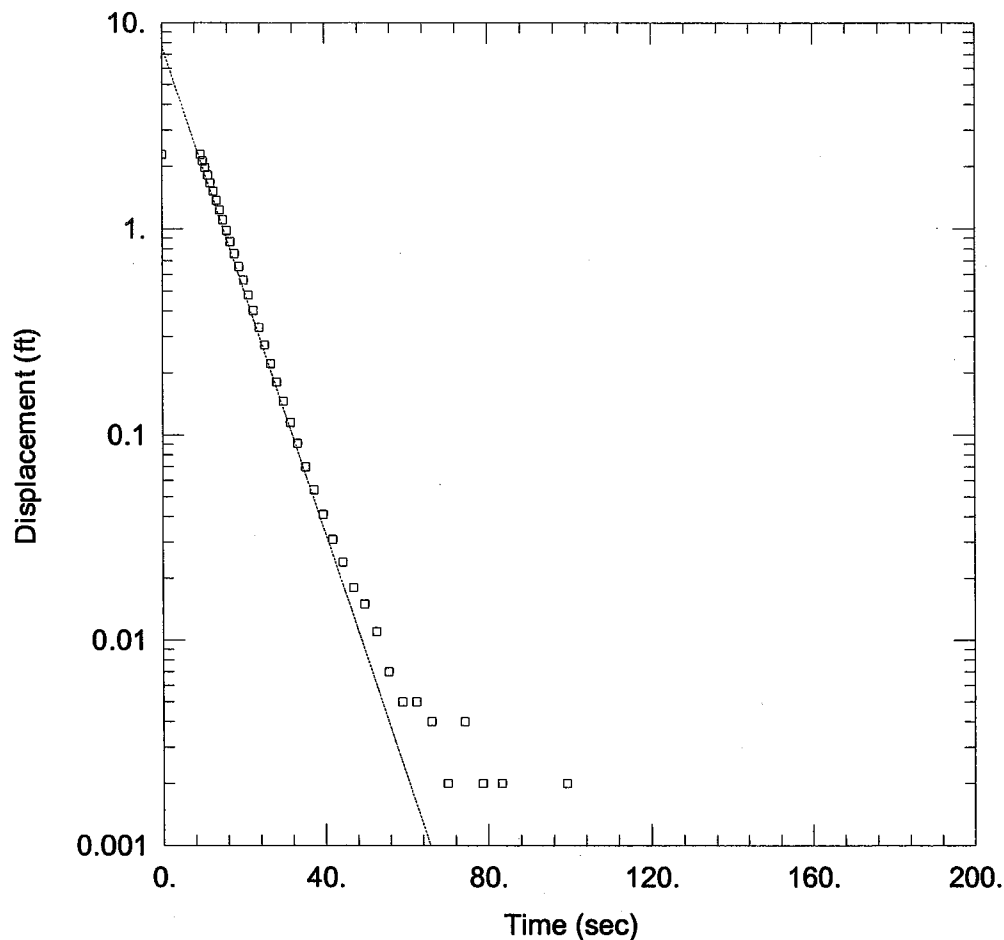
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.009148$  cm/sec

$y_0 = 6.537$  ft



### WELL TEST ANALYSIS

Data Set: I:\...MW-15S test3.aqt

Date: 03/23/07

Time: 13:16:16

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-15S

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 12.25 ft

Anisotropy Ratio (Kz/Kr): 1.

### WELL DATA (MW-15S test3)

Initial Displacement: 2.289 ft

Static Water Column Height: 12.25 ft

Total Well Penetration Depth: 12.25 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

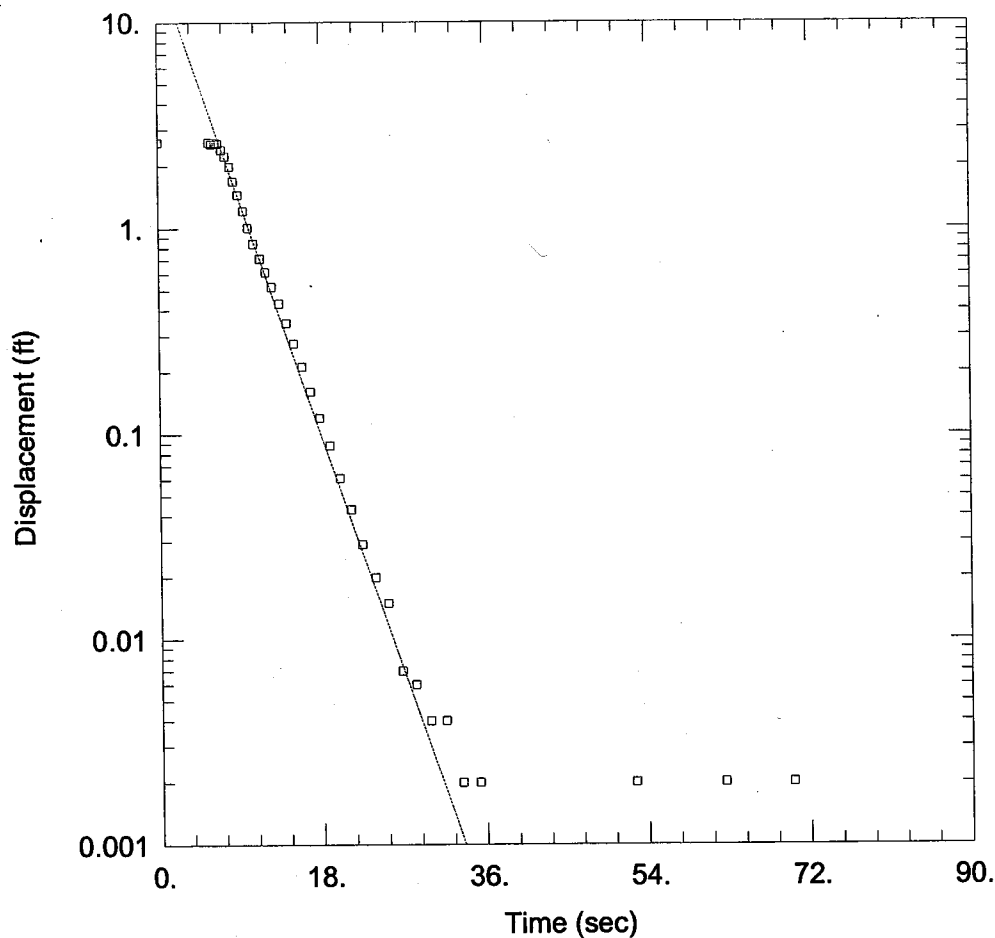
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.008984 cm/sec

y0 = 7.716 ft



### WELL TEST ANALYSIS

Data Set: I:\...\MW-16S test1.aqt

Date: 03/23/07

Time: 13:16:08

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-16S

Test Date: 12/8/06

### AQUIFER DATA

Saturated Thickness: 6.08 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-16S test1)

Initial Displacement: 2.606 ft

Static Water Column Height: 6.08 ft

Total Well Penetration Depth: 6.08 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

### SOLUTION

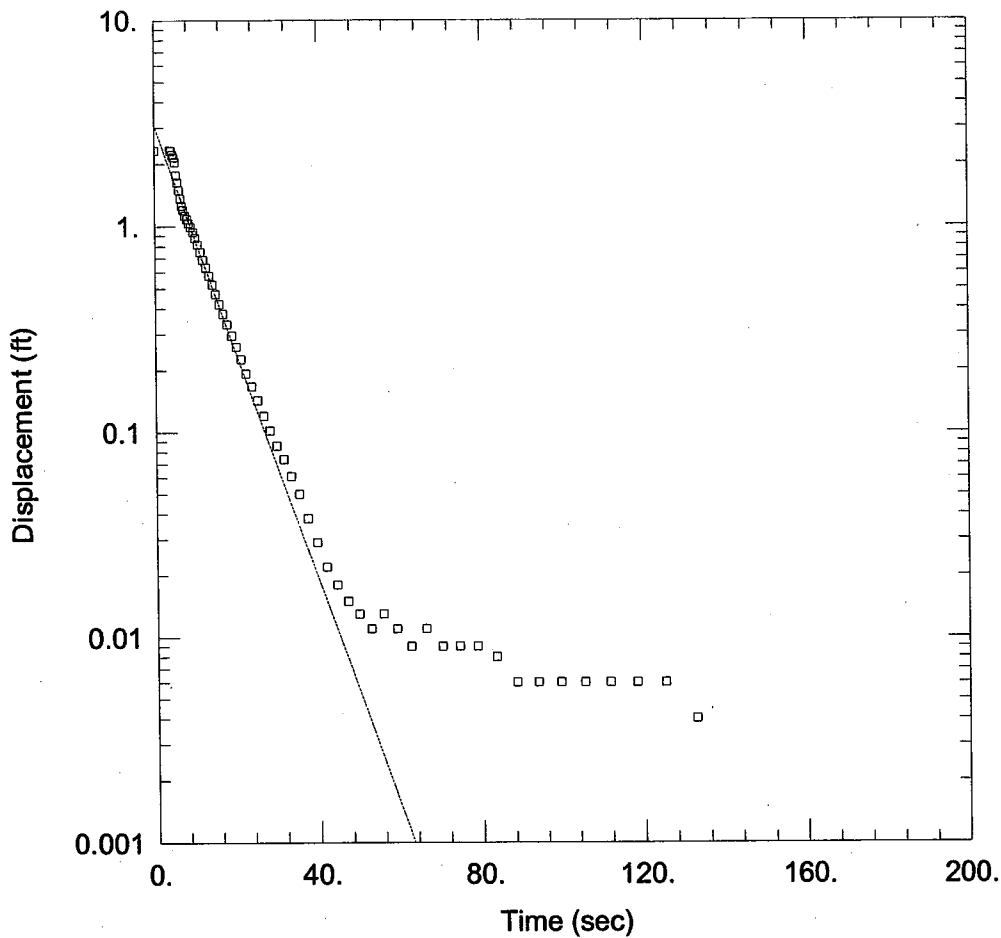
Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.01688$  cm/sec

$y_0 = 19.72$  ft





### WELL TEST ANALYSIS

Data Set: I:\...MW-16S test2.aqt

Date: 03/23/07

Time: 13:16:04

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-16S

Test Date: 12/8/06

### AQUIFER DATA

Saturated Thickness: 6.08 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-16S test2)

Initial Displacement: 2.327 ft

Static Water Column Height: 6.08 ft

Total Well Penetration Depth: 6.08 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

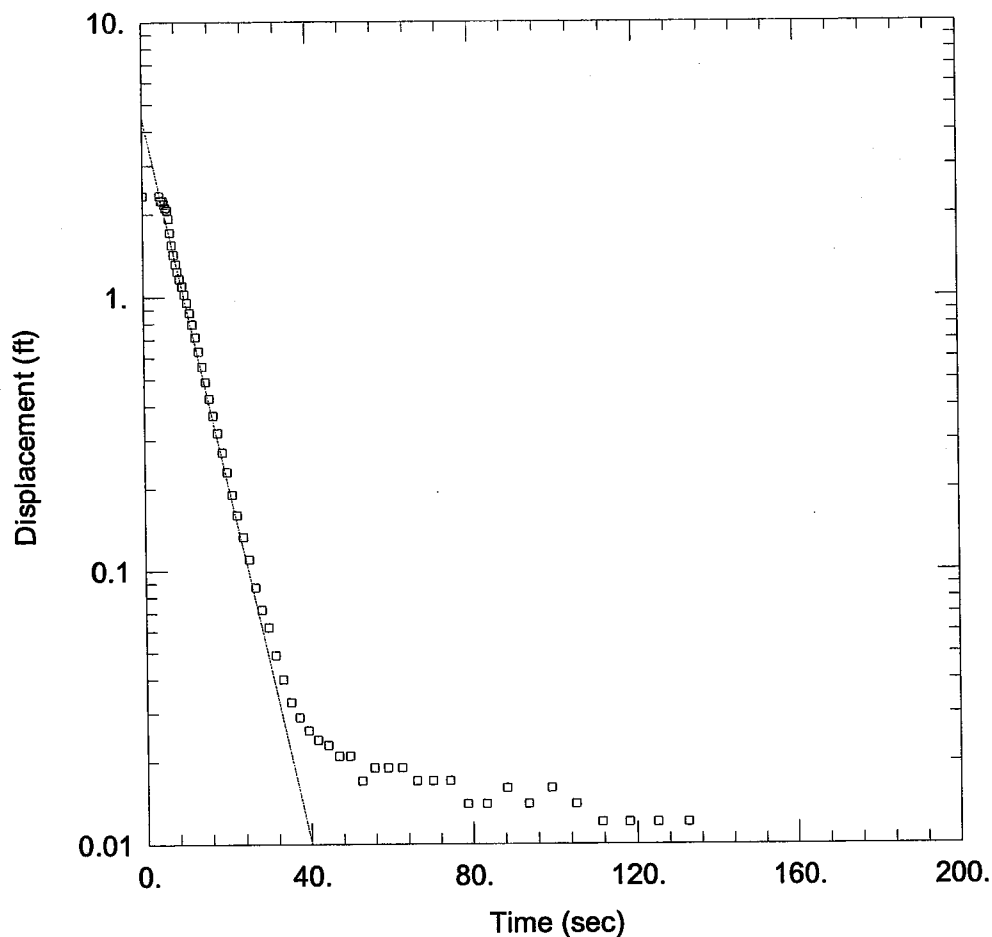
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.007301$  cm/sec

$y_0 = 3.087$  ft



### WELL TEST ANALYSIS

Data Set: I:\...MW-16S test3.aqt

Date: 03/23/07

Time: 13:15:59

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: MW-16S

Test Date: 12/8/06

### AQUIFER DATA

Saturated Thickness: 6.08 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (MW-16S test3)

Initial Displacement: 2.327 ft

Static Water Column Height: 6.08 ft

Total Well Penetration Depth: 6.08 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

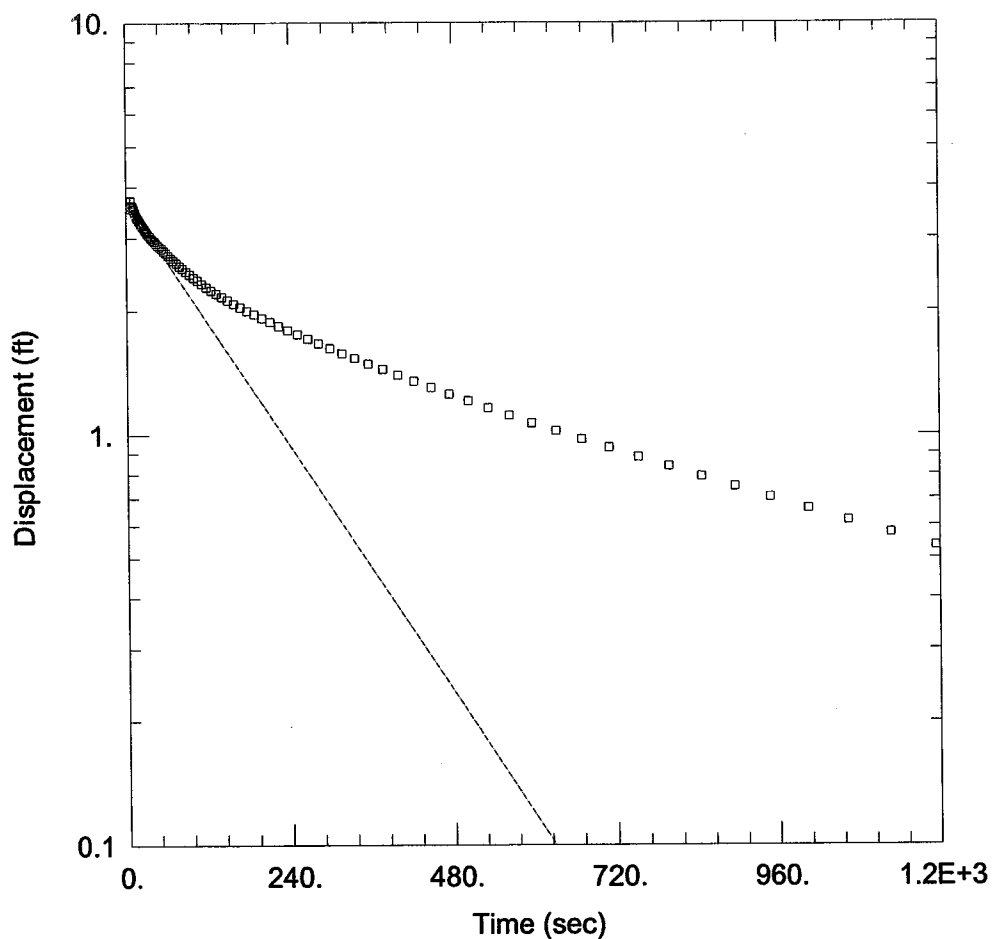
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.008719$  cm/sec

$y_0 = 4.489$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\TMW-1 test1.aqt  
 Date: 03/23/07

Time: 13:15:50

### PROJECT INFORMATION

Company: OBG  
 Client: Parker Hannifin  
 Project: 39892.001.104  
 Location: Clyde NY  
 Test Well: TMW-1  
 Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (TMW-1 test1)

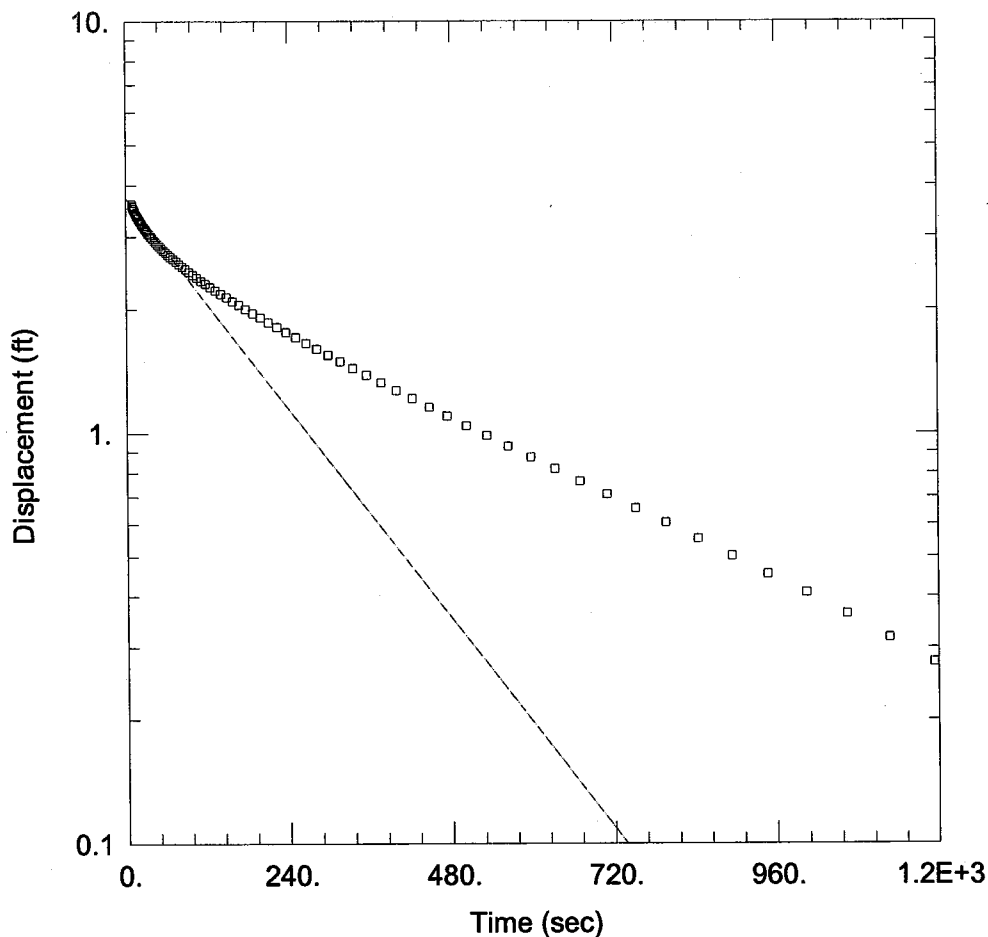
Initial Displacement: 3.71 ft  
 Total Well Penetration Depth: 9.2 ft  
 Casing Radius: 0.083 ft

Static Water Column Height: 9.2 ft  
 Screen Length: 2. ft  
 Wellbore Radius: 0.16 ft

### SOLUTION

Aquifer Model: Unconfined  
 $K = 0.0007877$  cm/sec

Solution Method: Bouwer-Rice  
 $y_0 = 3.73$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\TMW-1 test2.aqt

Date: 03/23/07

Time: 13:17:25

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: TMW-1

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (TMW-1 test2)

Initial Displacement: 3.598 ft

Static Water Column Height: 9.2 ft

Total Well Penetration Depth: 9.2 ft

Screen Length: 2. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

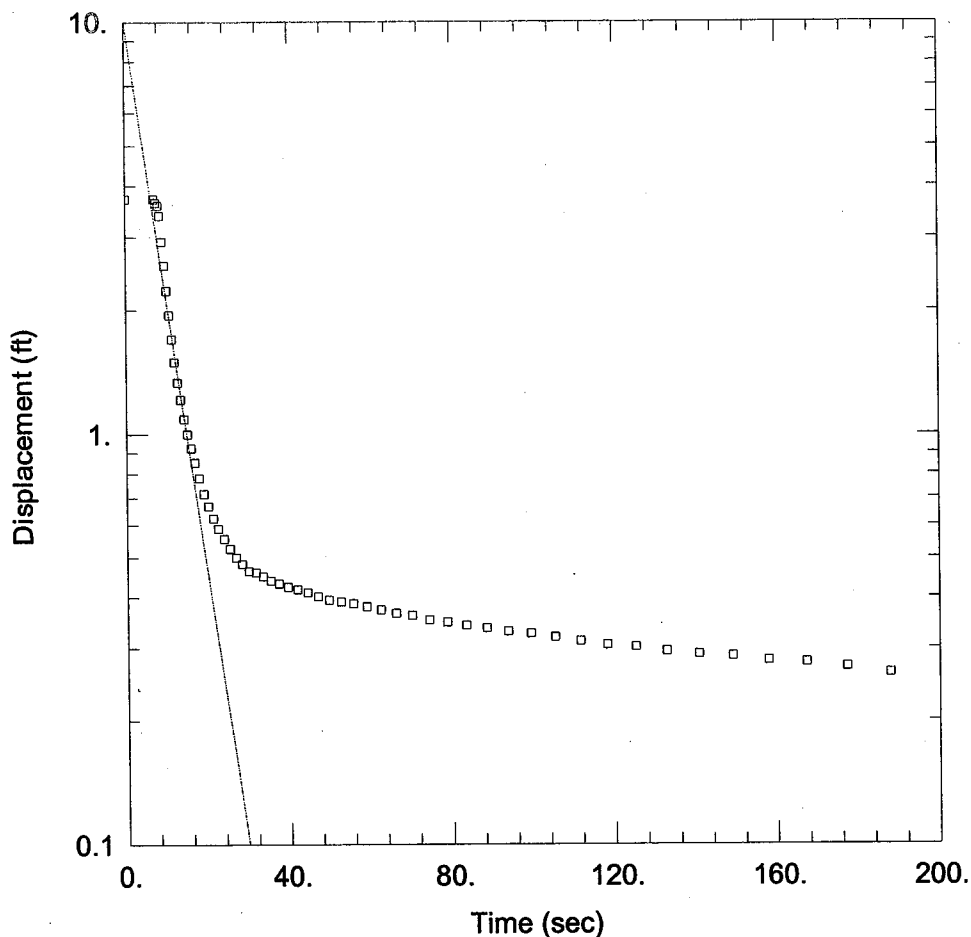
### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.000671$  cm/sec

$y_0 = 3.716$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\TMW-2 test1.aqt  
 Date: 03/23/07

Time: 13:17:22

### PROJECT INFORMATION

Company: OBG  
 Client: Parker Hannifin  
 Project: 39892.001.104  
 Location: Clyde NY  
 Test Well: TMW-2  
 Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 2.51 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (TMW-2 test1)

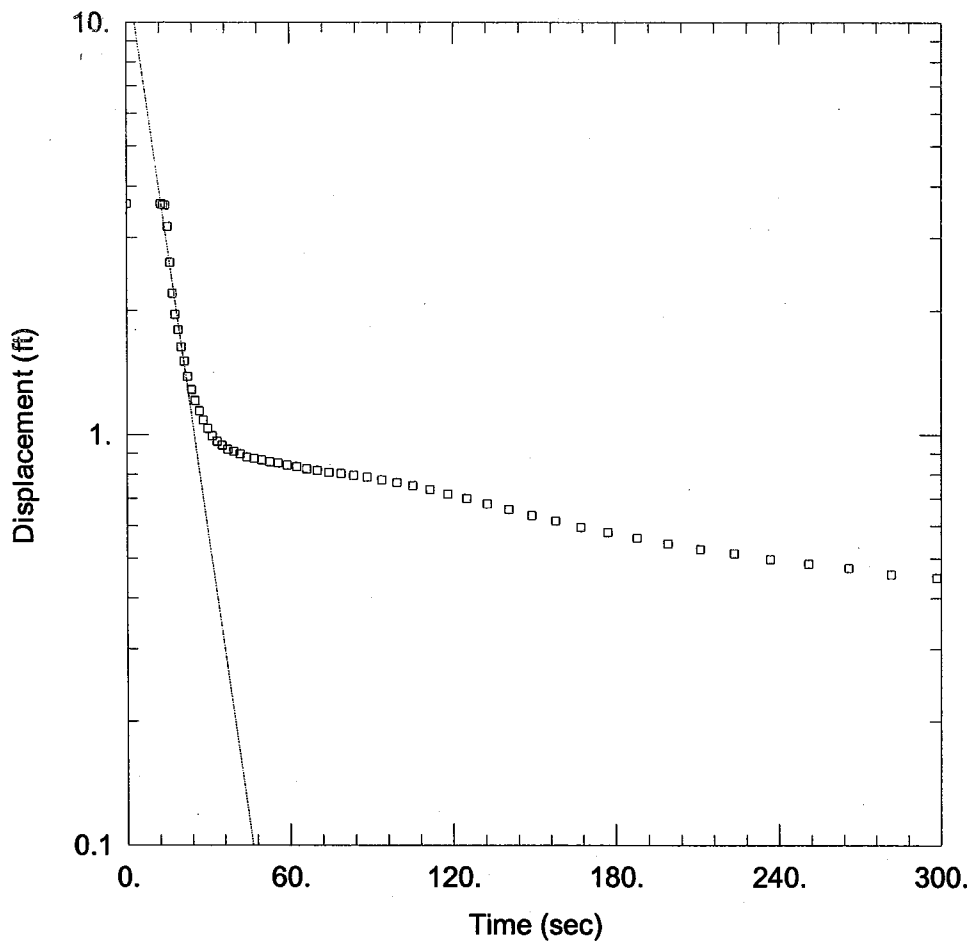
Initial Displacement: 3.716 ft  
 Total Well Penetration Depth: 2.51 ft  
 Casing Radius: 0.083 ft

Static Water Column Height: 2.51 ft  
 Screen Length: 2. ft  
 Wellbore Radius: 0.16 ft

### SOLUTION

Aquifer Model: Unconfined  
 $K = 0.01597$  cm/sec

Solution Method: Bouwer-Rice  
 $y_0 = 9.967$  ft



### WELL TEST ANALYSIS

Data Set: I:\...\TMW-2 test2.aqt

Date: 03/23/07

Time: 13:17:18

### PROJECT INFORMATION

Company: OBG

Client: Parker Hannifin

Project: 39892.001.104

Location: Clyde NY

Test Well: TMW-2

Test Date: 12/7/06

### AQUIFER DATA

Saturated Thickness: 2.51 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

### WELL DATA (TMW-2 test2)

Initial Displacement: 3.626 ft

Static Water Column Height: 2.51 ft

Total Well Penetration Depth: 2.51 ft

Screen Length: 2. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.16 ft

### SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.01093$  cm/sec

$y_0 = 14.04$  ft

## **APPENDIX D**

### **Soil Sampling Laboratory Data**



Accutest Laboratories

## Report of Analysis

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Client Sample ID:	SB6B(4-6)111506	Date Sampled:	11/15/06
Lab Sample ID:	J46767-1	Date Received:	11/17/06
Matrix:	SO - Soil	Percent Solids:	n/a <sup>a</sup>
Method:	SW846 8260B SW846 5035		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S95340.D	1	11/22/06	NDJ	11/17/06 12:00	n/a	VS3677
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.3 g	5.0 ml	100 ul
Run #2			

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	400	110	ug/kg	
71-43-2	Benzene	ND	40	19	ug/kg	
75-27-4	Bromodichloromethane	ND	200	18	ug/kg	
75-25-2	Bromoform	ND	200	17	ug/kg	
74-83-9	Bromomethane	ND	200	15	ug/kg	
78-93-3	2-Butanone (MEK)	ND	400	110	ug/kg	
75-15-0	Carbon disulfide	ND	200	22	ug/kg	
56-23-5	Carbon tetrachloride	ND	200	38	ug/kg	
108-90-7	Chlorobenzene	ND	200	17	ug/kg	
75-00-3	Chloroethane	ND	200	69	ug/kg	
67-66-3	Chloroform	ND	200	23	ug/kg	
74-87-3	Chloromethane	ND	200	18	ug/kg	
124-48-1	Dibromochloromethane	ND	200	22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	200	19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	40	22	ug/kg	
75-35-4	1,1-Dichloroethene	ND	200	27	ug/kg	
156-59-2	cis-1,2-Dichloroethene	83.0	200	27	ug/kg	J
156-60-5	trans-1,2-Dichloroethene	ND	200	27	ug/kg	
78-87-5	1,2-Dichloropropane	ND	200	22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	200	16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	200	16	ug/kg	
100-41-4	Ethylbenzene	ND	40	18	ug/kg	
591-78-6	2-Hexanone	ND	200	54	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	200	79	ug/kg	
75-09-2	Methylene chloride	ND	200	27	ug/kg	
100-42-5	Styrene	ND	200	13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	23	ug/kg	
127-18-4	Tetrachloroethene	ND	200	33	ug/kg	
108-88-3	Toluene	71.5	40	22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	200	23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	200	21	ug/kg	
79-01-6	Trichloroethene	ND	200	21	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	SB6B(4-6)111506		
Lab Sample ID:	J46767-1	Date Sampled:	11/15/06
Matrix:	SO - Soil	Date Received:	11/17/06
Method:	SW846 8260B SW846 5035	Percent Solids:	n/a <sup>a</sup>
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND J	200	26	ug/kg	
1330-20-7	Xylene (total)	ND ↓	79	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-120%
17060-07-0	1,2-Dichloroethane-D4	111%		61-133%
2037-26-5	Toluene-D8	105%		75-123%
460-00-4	4-Bromofluorobenzene	117%		65-142%

(a) Percent solids not analyzed due to sample matrix. Results reported on wet weight basis.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## **APPENDIX E**

### **Ground Water Sampling Laboratory Data**

Accutest Laboratories

## Report of Analysis

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Client Sample ID: GW-EMW-2-113006  
 Lab Sample ID: J47958-6  
 Matrix: AQ - Ground Water  
 Method: SW846 8260B  
 Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 11/30/06  
 Date Received: 12/02/06  
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120645.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	0.37	1.0	0.37	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.1	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-EMW-2-113006		
Lab Sample ID:	J47958-6	Date Sampled:	11/30/06
Matrix:	AQ - Ground Water	Date Received:	12/02/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	5.7	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	0.57	1.0	0.34	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		77-121%
17060-07-0	1,2-Dichloroethane-D4	110%		65-133%
2037-26-5	Toluene-D8	96%		80-117%
460-00-4	4-Bromofluorobenzene	107%		79-124%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

## Report of Analysis

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Client Sample ID: GW-EMW-2-113006

Lab Sample ID: J47958-6

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33490.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2	II33491.D	2.5	12/08/06	HSC	n/a	n/a	GII1676

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	1440	0.10	0.066	ug/l	
74-84-0	Ethane	340 <sup>a</sup>	0.25	0.14	ug/l	
74-85-1	Ethene	36.4	0.10	0.075	ug/l	

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	GW-EMW-2-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-6	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	65600	10000	ug/l	1	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18522

(2) Prep QC Batch: MP37272

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-EMW-2-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-6	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	559	13	mg/l	1	12/14/06	ST	EPA 310.1
Chloride	108	2.0	mg/l	1	12/28/06 01:39	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/21/06 15:04	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/21/06 15:04	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite <sup>b</sup>	< 0.010	0.010	mg/l	1	12/02/06 14:00	HF	SM19 4500NO2B
Sulfate	11.8	10	mg/l	1	12/28/06 01:39	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis done out of holding time.

RL = Reporting Limit

## Report of Analysis

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3

Client Sample ID:	GW-EMW-2-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-6F	Date Received:	12/02/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	4.8	1.0	mg/l	1	12/26/06 18:41	MO	EPA415.1/SW8469060M

---

RL = Reporting Limit



Accutest Laboratories

## Report of Analysis

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3

Client Sample ID: GW-EMW-3-120106

Lab Sample ID: J47958-8

Date Sampled: 12/01/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120647.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0-R	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0-R	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-EMW-3-120106		
Lab Sample ID:	J47958-8	Date Sampled:	12/01/06
Matrix:	AQ - Ground Water	Date Received:	12/02/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		77-121%
17060-07-0	1,2-Dichloroethane-D4	112%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	109%		79-124%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID:	GW-EMW-3-120106			Date Sampled:	12/01/06
Lab Sample ID:	J47958-8			Date Received:	12/02/06
Matrix:	AQ - Ground Water			Percent Solids:	n/a
Method:	SW846 8015				
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33493.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	598	0.10	0.066	ug/l	
74-84-0	Ethane	0.56	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	GW-EMW-3-120106	Date Sampled:	12/01/06
Lab Sample ID:	J47958-8	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	30900	10000	ug/l	1	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18522

(2) Prep QC Batch: MP37272

RL = Reporting Limit



## Report of Analysis

Client Sample ID:	GW-EMW-3-120106	Date Sampled:	12/01/06
Lab Sample ID:	J47958-8	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	453	13	mg/l	1	12/14/06	ST	EPA 310.1
Chloride	38.3	2.0	mg/l	1	12/28/06 02:15	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	0.66	0.11	mg/l	1	12/21/06 15:08	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.66	0.10	mg/l	1	12/21/06 15:08	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite <sup>b</sup>	< 0.010	0.010	mg/l	1	12/02/06 14:00	HF	SM19 4500NO2B
Sulfate	< 10	10	mg/l	1	12/28/06 02:15	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis done out of holding time.

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-EMW-3-120106	Date Sampled:	12/01/06
Lab Sample ID:	J47958-8F	Date Received:	12/02/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	3.6	1.0	mg/l	1	12/26/06 19:18	MO	EPA415.1/SW8469060M

RL = Reporting Limit

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## Report of Analysis

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3

Client Sample ID: GW-EMW-4-120606

Lab Sample ID: J48443-6

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45519.D	1	12/18/06	PWC	n/a	n/a	V1A1947
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	1.4	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	0.71	1.0	0.089	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-EMW-4-120606		
Lab Sample ID:	J48443-6	Date Sampled:	12/06/06
Matrix:	AQ - Ground Water	Date Received:	12/07/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	2.2	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		77-121%
17060-07-0	1,2-Dichloroethane-D4	125%		65-133%
2037-26-5	Toluene-D8	94%		80-117%
460-00-4	4-Bromofluorobenzene	89%		79-124%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



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## Report of Analysis

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3

Client Sample ID: GW-EMW-4-120606

Lab Sample ID: J48443-6

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33583.D	1	12/13/06	HSC	n/a	n/a	GII1679
Run #2	II33584.D	5	12/13/06	HSC	n/a	n/a	GII1679

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	5140 <sup>a</sup>	0.50	0.33	ug/l	
74-84-0	Ethane	226	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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3

Client Sample ID:	GW-EMW-4-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-6	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	59200	10000	ug/l	1	12/26/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37400

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-EMW-4-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-6	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	425	17	mg/l	1	12/20/06	JA	EPA 310.1
Chloride	70.9	2.0	mg/l	1	01/03/07 01:37	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/30/06 13:40	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/30/06 13:40	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 18:00	MET	SM19 4500NO2B
Sulfate	< 10	10	mg/l	1	01/03/07 01:37	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/12/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

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3

Client Sample ID:	GW-EMW-4-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-6F	Date Received:	12/07/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	5.6	1.0	mg/l	1	12/29/06 01:38	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit



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## Report of Analysis

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3

Client Sample ID: GW-EMW-5-120106

Lab Sample ID: J47958-7

Date Sampled: 12/01/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120646.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0 R	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0 R	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-EMW-5-120106	Date Sampled:	12/01/06
Lab Sample ID:	J47958-7	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		77-121%
17060-07-0	1,2-Dichloroethane-D4	113%		65-133%
2037-26-5	Toluene-D8	96%		80-117%
460-00-4	4-Bromofluorobenzene	108%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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3

Client Sample ID: GW-EMW-5-120106

Lab Sample ID: J47958-7

Date Sampled: 12/01/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33492.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	1140	0.10	0.066	ug/l	
74-84-0	Ethane	0.25	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	GW-EMW-5-120106	Date Sampled:	12/01/06
Lab Sample ID:	J47958-7	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	55000	10000	ug/l	1	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18522

(2) Prep QC Batch: MP37272

RL = Reporting Limit



## Report of Analysis

Client Sample ID:	GW-EMW-5-120106	Date Sampled:	12/01/06
Lab Sample ID:	J47958-7	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	477	13	mg/l	1	12/14/06	ST	EPA 310.1
Chloride	77.2	2.0	mg/l	1	12/28/06 01:57	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/21/06 15:07	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/21/06 15:07	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite <sup>b</sup>	< 0.010	0.010	mg/l	1	12/02/06 14:00	HF	SM19 4500NO2B
Sulfate	< 10	10	mg/l	1	12/28/06 01:57	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis done out of holding time.

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-EMW-5-120106	Date Sampled:	12/01/06
Lab Sample ID:	J47958-7F	Date Received:	12/02/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	12/26/06 19:10	MO	EPA415.1/SW8469060M

RL = Reporting Limit

## Report of Analysis

Client Sample ID: GW-MW-1S-112906

Lab Sample ID: J47796-2

Date Sampled: 11/29/06

Matrix: AQ - Ground Water

Date Received: 12/01/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120653.D	25	12/06/06	YL	n/a	n/a	VD4809
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	120	ug/l	
71-43-2	Benzene	ND	25	9.3	ug/l	
75-27-4	Bromodichloromethane	ND	25	3.4	ug/l	
75-25-2	Bromoform	ND	25	13	ug/l	
74-83-9	Bromomethane	ND	25	9.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	130	36	ug/l	
75-15-0	Carbon disulfide	ND	25	9.5	ug/l	
56-23-5	Carbon tetrachloride	ND	25	13	ug/l	
108-90-7	Chlorobenzene	ND	25	18	ug/l	
75-00-3	Chloroethane	ND	25	16	ug/l	
67-66-3	Chloroform	ND	25	4.6	ug/l	
74-87-3	Chloromethane	ND	25	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	25	4.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	2.2	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	14	ug/l	
75-35-4	1,1-Dichloroethene	ND	25	12	ug/l	
156-59-2	cis-1,2-Dichloroethene	3690	25	4.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	32.4	25	4.6	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	3.8	ug/l	
100-41-4	Ethylbenzene	ND	25	11	ug/l	
591-78-6	2-Hexanone	ND	130	8.8	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	130	13	ug/l	
75-09-2	Methylene chloride	ND	50	13	ug/l	
100-42-5	Styrene	ND	25	1.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	2.7	ug/l	
127-18-4	Tetrachloroethene	11.0	25	9.7	ug/l	J
108-88-3	Toluene	ND	25	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	2.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	3.8	ug/l	
79-01-6	Trichloroethene	1110	25	4.0	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	GW-MW-1S-112906	<b>Date Sampled:</b>	11/29/06
<b>Lab Sample ID:</b>	J47796-2	<b>Date Received:</b>	12/01/06
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	147	25	19	ug/l	
1330-20-7	Xylene (total)	ND	25	8.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		77-121%
17060-07-0	1,2-Dichloroethane-D4	115%		65-133%
2037-26-5	Toluene-D8	96%		80-117%
460-00-4	4-Bromofluorobenzene	108%		79-124%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

Page 1 of 1

Client Sample ID: GW-MW-1S-112906							
Lab Sample ID: J47796-2				Date Sampled: 11/29/06			
Matrix: AQ - Ground Water				Date Received: 12/01/06			
Method: SW846 8015				Percent Solids: n/a			
Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY							
Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	1133499.D	1	12/08/06	HSC	n/a	n/a	G111676

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.88	0.10	0.066	ug/l	
74-84-0	Ethane	7.69	0.10	0.056	ug/l	
74-85-1	Ethene	0.38	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> GW-MW-1S-112906	<b>Date Sampled:</b> 11/29/06
<b>Lab Sample ID:</b> J47796-2	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	103000	20000	ug/l	2	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18529

(2) Prep QC Batch: MP37272

RL = Reporting Limit

: 00025

## Report of Analysis

<b>Client Sample ID:</b>	GW-MW-1S-112906	<b>Date Sampled:</b>	11/29/06
<b>Lab Sample ID:</b>	J47796-2	<b>Date Received:</b>	12/01/06
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	374	13	mg/l	1	12/12/06	ST	EPA 310.1
Chloride	182	2.0	mg/l	1	12/21/06 01:32	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	<0.11	0.11	mg/l	1	12/21/06 14:51	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	12/21/06 14:51	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	12/01/06 15:50	ST	SM19 4500NO2B
Sulfate	34.9	2.0	mg/l	1	12/21/06 01:32	JH	EPA 300/SW846 9056
Sulfide	<2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

## Report of Analysis

<b>Client Sample ID:</b> GW-MW-1S-112906	<b>Date Sampled:</b> 11/29/06
<b>Lab Sample ID:</b> J47796-2F	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	<1.0	1.0 J	mg/l	1	12/22/06 00:14	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit



## Report of Analysis

Client Sample ID: GW-X-1-112906

Lab Sample ID: J47796-7

Date Sampled: 11/29/06

Matrix: AQ - Ground Water

Date Received: 12/01/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45181.D	10	12/08/06	PWC	n/a	n/a	V1A1932
Run #2	1A45182.D	50	12/08/06	PWC	n/a	n/a	V1A1932

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	46	ug/l	
71-43-2	Benzene	ND	10	3.7	ug/l	
75-27-4	Bromodichloromethane	ND	10	1.4	ug/l	
75-25-2	Bromoform	ND	10	5.2	ug/l	
74-83-9	Bromomethane	ND	10	3.9	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	14	ug/l	
75-15-0	Carbon disulfide	ND	10	3.8	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.3	ug/l	
108-90-7	Chlorobenzene	ND	10	7.4	ug/l	
75-00-3	Chloroethane	ND	10	6.5	ug/l	
67-66-3	Chloroform	ND	10	1.8	ug/l	
74-87-3	Chloromethane	ND	10	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	0.89	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	5.7	ug/l	
75-35-4	1,1-Dichloroethene	6.9	10	4.9	ug/l	J
156-59-2	cis-1,2-Dichloroethene	3240 <sup>a</sup>	50	8.9	ug/l	
156-60-5	trans-1,2-Dichloroethene	34.2	10	1.8	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	5.6	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	1.5	ug/l	
100-41-4	Ethylbenzene	ND	10	4.4	ug/l	
591-78-6	2-Hexanone	ND	50	3.5	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	5.0	ug/l	
75-09-2	Methylene chloride	ND	20	5.3	ug/l	
100-42-5	Styrene	ND	10	0.69	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	1.1	ug/l	
127-18-4	Tetrachloroethene	10.6	10	3.9	ug/l	
108-88-3	Toluene	ND	10	4.1	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	1.5	ug/l	
79-01-6	Trichloroethene	988	10	1.6	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	GW-X-1-112906	Date Sampled:	11/29/06
Lab Sample ID:	J47796-7	Date Received:	12/01/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	155	10	7.7	ug/l	
1330-20-7	Xylene (total)	ND	10	3.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	97%	77-121%
17060-07-0	1,2-Dichloroethane-D4	106%	108%	65-133%
2037-26-5	Toluene-D8	98%	98%	80-117%
460-00-4	4-Bromofluorobenzene	89%	90%	79-124%

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

: 00053

## Report of Analysis

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<b>Client Sample ID:</b>	GW-X-1-112906	<b>Date Sampled:</b>	11/29/06
<b>Lab Sample ID:</b>	J47796-7	<b>Date Received:</b>	12/01/06
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8015		
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33506.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	9.54	0.10	0.066	ug/l	
74-84-0	Ethane	11.0	0.10	0.056	ug/l	
74-85-1	Ethene	0.46	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> GW-X-1-112906	<b>Date Sampled:</b> 11/29/06
<b>Lab Sample ID:</b> J47796-7	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	103000	20000	ug/l	2	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18529

(2) Prep QC Batch: MP37272

RL = Reporting Limit

: 00055

## Report of Analysis

<b>Client Sample ID:</b>	GW-X-1-112906	<b>Date Sampled:</b>	11/29/06
<b>Lab Sample ID:</b>	J47796-7	<b>Date Received:</b>	12/01/06
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	460	13	mg/l	1	12/12/06	ST	EPA 310.1
Chloride	182	2.0	mg/l	1	12/21/06 02:46	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	<0.11	0.11	mg/l	1	12/21/06 14:57	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	12/21/06 14:57	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	0.011	0.010	mg/l	1	12/01/06 14:45	ST	SM19 4500NO2B
Sulfate	35.1	2.0	mg/l	1	12/21/06 02:46	JH	EPA 300/SW846 9056
Sulfide	<2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

## Report of Analysis

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<b>Client Sample ID:</b> GW-X-1-112906	<b>Date Sampled:</b> 11/29/06
<b>Lab Sample ID:</b> J47796-7F	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	4.6	1.0 J	mg/l	1	12/22/06 01:19	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit

: 00057

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## Report of Analysis

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Client Sample ID: GW-MW-1-120606

Lab Sample ID: J48443-5

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45518.D	1	12/18/06	PWC	n/a	n/a	V1A1947
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.2	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	0.58	1.0	0.16	ug/l	J

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis



Client Sample ID:	GW-MW-1-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-5	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	3.3	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		77-121%
17060-07-0	1,2-Dichloroethane-D4	122%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	88%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



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## Report of Analysis

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3

Client Sample ID:	GW-MW-1-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-5	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8015		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33582.D	1	12/13/06	HSC	n/a	n/a	GII1679
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	897	0.10	0.066	ug/l	
74-84-0	Ethane	10.4	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis



Client Sample ID:	GW-MW-1-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-5	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	21400	10000	ug/l	1	12/26/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37400

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-1-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-5	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	275	5.0	mg/l	1	12/20/06	JA	EPA 310.1
Chloride	24.3	2.0	mg/l	1	01/03/07 01:19	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/30/06 13:39	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/30/06 13:39	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 18:00	MET	SM19 4500NO2B
Sulfate	12.7	10	mg/l	1	01/03/07 01:19	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/12/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-MW-1-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-5F	Date Received:	12/07/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	6.4	1.0	mg/l	1	12/29/06 01:31	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit



## Report of Analysis

Client Sample ID: GW-MW-2S-112906

Lab Sample ID: J47796-1

Date Sampled: 11/29/06

Matrix: AQ - Ground Water

Date Received: 12/01/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120652.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	GW-MW-2S-112906	<b>Date Sampled:</b>	11/29/06
<b>Lab Sample ID:</b>	J47796-1	<b>Date Received:</b>	12/01/06
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		77-121%
17060-07-0	1,2-Dichloroethane-D4	116%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	111%		79-124%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID: GW-MW-2S-112906

Lab Sample ID: J47796-1

Date Sampled: 11/29/06

Matrix: AQ - Ground Water

Date Received: 12/01/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33498.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	206	0.10	0.066	ug/l	
74-84-0	Ethane	ND	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> GW-MW-2S-112906	<b>Date Sampled:</b> 11/29/06
<b>Lab Sample ID:</b> J47796-1	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	61800	10000	ug/l	1	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18522

(2) Prep QC Batch: MP37272



## Report of Analysis

<b>Client Sample ID:</b>	GW-MW-2S-112906	<b>Date Sampled:</b>	11/29/06
<b>Lab Sample ID:</b>	J47796-1	<b>Date Received:</b>	12/01/06
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	441	5.0	mg/l	1	12/12/06	ST	EPA 310.1
Chloride	21.5	2.0	mg/l	1	12/21/06 01:14	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	0.33	0.11	mg/l	1	12/21/06 14:49	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.33	0.10	mg/l	1	12/21/06 14:49	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	12/01/06 15:50	ST	SM19 4500NO2B
Sulfate	10.4	2.0	mg/l	1	12/21/06 01:14	JH	EPA 300/SW846 9056
Sulfide	<2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

## Report of Analysis

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<b>Client Sample ID:</b> GW-MW-2S-112906	<b>Date Sampled:</b> 11/29/06
<b>Lab Sample ID:</b> J47796-1F	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	2.2	1.0	mg/l	1	12/22/06 00:06	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit

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## Report of Analysis

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Client Sample ID: GW-MW-3S-120506

Lab Sample ID: J48302-5

Date Sampled: 12/05/06

Matrix: AQ - Ground Water

Date Received: 12/06/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45432.D	1	12/15/06	PWC	n/a	n/a	VIA1943
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-3S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-5	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		77-121%
17060-07-0	1,2-Dichloroethane-D4	111%		65-133%
2037-26-5	Toluene-D8	96%		80-117%
460-00-4	4-Bromofluorobenzene	86%		79-124%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



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## Report of Analysis

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Client Sample ID:	GW-MW-3S-120506					Date Sampled:	12/05/06
Lab Sample ID:	J48302-5					Date Received:	12/06/06
Matrix:	AQ - Ground Water					Percent Solids:	n/a
Method:	SW846 8015						
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY						

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33620.D	1	12/14/06	HSC	n/a	n/a	GII1680
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.12	0.10	0.066	ug/l	
74-84-0	Ethane	ND	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-3S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-5	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	11200	10000	ug/l	1	12/21/06	12/22/06 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18543

(2) Prep QC Batch: MP37346

RL = Reporting Limit

## Report of Analysis

Client Sample ID: GW-MW-3S-120506

Lab Sample ID: J48302-5

Matrix: AQ - Ground Water

Date Sampled: 12/05/06

Date Received: 12/06/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	462	10	mg/l	1	12/19/06	ST	EPA 310.1
Chloride	10.4	2.0	mg/l	1	12/30/06 16:30	VLP	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	0.35	0.11	mg/l	1	12/28/06 19:43	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.35	0.10	mg/l	1	12/28/06 19:43	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 00:29	MET	SM19 4500NO2B
Sulfate	21.3	10	mg/l	1	12/30/06 16:30	VLP	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/11/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-MW-3S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-5F	Date Received:	12/06/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	2.1	1.0	mg/l	1	12/28/06 23:44	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit



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## Report of Analysis

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Client Sample ID: GW-MW-3B-120506

Lab Sample ID: J48302-6

Date Sampled: 12/05/06

Matrix: AQ - Ground Water

Date Received: 12/06/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45433.D	1	12/15/06	PWC	n/a	n/a	V1A1943
Run #2	1A45434.D	5	12/15/06	PWC	n/a	n/a	V1A1943

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	351 <sup>a</sup>	5.0	0.89	ug/l	
156-60-5	trans-1,2-Dichloroethene	5.9	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	0.48	1.0	0.41	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	1.4	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-3B-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-6	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	237 <sup>a</sup>	5.0	3.8	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	98%	77-121%
17060-07-0	1,2-Dichloroethane-D4	112%	114%	65-133%
2037-26-5	Toluene-D8	97%	97%	80-117%
460-00-4	4-Bromofluorobenzene	85%	86%	79-124%

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-3B-120506

Lab Sample ID: J48302-6

Matrix: AQ - Ground Water

Method: SW846 8015

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/05/06

Date Received: 12/06/06

Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33626.D	1	12/15/06	HSC	n/a	n/a	GII1681
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	24.4	0.10	0.066	ug/l	
74-84-0	Ethane	2.3	0.10	0.056	ug/l	
74-85-1	Ethene	16.2	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: GW-MW-3B-120506

Lab Sample ID: J48302-6

Matrix: AQ - Ground Water

Date Sampled: 12/05/06

Date Received: 12/06/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	192000	30000	ug/l	3	12/21/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37346

RL = Reporting Limit



## Report of Analysis

Client Sample ID: GW-MW-3B-120506

Lab Sample ID: J48302-6

Matrix: AQ - Ground Water

Date Sampled: 12/05/06

Date Received: 12/06/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	63.4	5.0	mg/l	1	12/19/06	ST	EPA 310.1
Chloride	104	2.0	mg/l	1	12/30/06 16:48	VLP	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/30/06 12:35	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/30/06 12:35	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 00:29	MET	SM19 4500NO2B
Sulfate	2090	100	mg/l	10	01/02/07 19:29	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/11/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-MW-3B-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-6F	Date Received:	12/06/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	1.1	1.0	mg/l	1	12/28/06 23:54	ESJ	EPA415.1/SW8469060M

---

RL = Reporting Limit

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## Report of Analysis

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Client Sample ID: GW-MW-4S-120506

Lab Sample ID: J48302-3

Date Sampled: 12/05/06

Matrix: AQ - Ground Water

Date Received: 12/06/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45429.D	1	12/15/06	PWC	n/a	n/a	V1A1943
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0 R	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.3	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-4S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-3	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	2.3	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		77-121%
17060-07-0	1,2-Dichloroethane-D4	103%		65-133%
2037-26-5	Toluene-D8	95%		80-117%
460-00-4	4-Bromofluorobenzene	85%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



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## Report of Analysis

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Client Sample ID: GW-MW-4S-120506

Lab Sample ID: J48302-3

Date Sampled: 12/05/06

Matrix: AQ - Ground Water

Date Received: 12/06/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33618.D	1	12/14/06	HSC	n/a	n/a	GII1680
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.43	0.10	0.066	ug/l	
74-84-0	Ethane	0.12	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-4S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-3	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	< 10000	10000	ug/l	1	12/21/06	12/22/06 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18543

(2) Prep QC Batch: MP37346

RL = Reporting Limit

## Report of Analysis



Client Sample ID: GW-MW-4S-120506

Lab Sample ID: J48302-3

Matrix: AQ - Ground Water

Date Sampled: 12/05/06

Date Received: 12/06/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	393	10	mg/l	1	12/19/06	ST	EPA 310.1
Chloride	12.8	2.0	mg/l	1	12/30/06 15:53	VLP	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/28/06 19:41	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/28/06 19:41	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 00:29	MET	SM19 4500NO2B
Sulfate	42.2	10	mg/l	1	12/30/06 15:53	VLP	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/10/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-4S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-3F	Date Received:	12/06/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	4.3	1.0	mg/l	1	12/28/06 23:27	ESJ	EPA415.1/SW8469060M

---

RL = Reporting Limit



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## Report of Analysis

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Client Sample ID: GW-MW-4B-120506

Lab Sample ID: J48302-4

Matrix: AQ - Ground Water

Method: SW846 8260B

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/05/06

Date Received: 12/06/06

Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45430.D	100	12/15/06	PWC	n/a	n/a	V1A1943
Run #2	1A45431.D	500	12/15/06	PWC	n/a	n/a	V1A1943

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	460	ug/l	
71-43-2	Benzene	ND	100	37	ug/l	
75-27-4	Bromodichloromethane	ND	100	14	ug/l	
75-25-2	Bromoform	ND	100	52	ug/l	
74-83-9	Bromomethane	ND	100	39	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	140	ug/l	
75-15-0	Carbon disulfide	ND	100	38	ug/l	
56-23-5	Carbon tetrachloride	ND	100	53	ug/l	
108-90-7	Chlorobenzene	ND	100	74	ug/l	
75-00-3	Chloroethane	ND	100	65	ug/l	
67-66-3	Chloroform	ND	100	18	ug/l	
74-87-3	Chloromethane	ND	100	20	ug/l	
124-48-1	Dibromochloromethane	ND	100	17	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	8.9	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	57	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	49	ug/l	
156-59-2	cis-1,2-Dichloroethene	64800 <sup>a</sup>	500	89	ug/l	
156-60-5	trans-1,2-Dichloroethene	130	100	18	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	15	ug/l	
100-41-4	Ethylbenzene	ND	100	44	ug/l	
591-78-6	2-Hexanone	ND	500	35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	50	ug/l	
75-09-2	Methylene chloride	ND	200	53	ug/l	
100-42-5	Styrene	ND	100	6.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	11	ug/l	
127-18-4	Tetrachloroethene	ND	100	39	ug/l	
108-88-3	Toluene	ND	100	41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	9.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	15	ug/l	
79-01-6	Trichloroethene	2130	100	16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-4B-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-4	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	8740	100	77	ug/l	
1330-20-7	Xylene (total)	ND	100	34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	96%	77-121%
17060-07-0	1,2-Dichloroethane-D4	104%	106%	65-133%
2037-26-5	Toluene-D8	98%	97%	80-117%
460-00-4	4-Bromofluorobenzene	85%	85%	79-124%

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-4B-120506

Lab Sample ID: J48302-4

Date Sampled: 12/05/06

Matrix: AQ - Ground Water

Date Received: 12/06/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33619.D	1	12/14/06	HSC	n/a	n/a	GII1680
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	287	0.10	0.066	ug/l	
74-84-0	Ethane	60.0	0.10	0.056	ug/l	
74-85-1	Ethene	163	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	GW-MW-4B-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-4	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	95200	20000	ug/l	2	12/21/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37346

RL = Reporting Limit



## Report of Analysis

Client Sample ID:	GW-MW-4B-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-4	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	361	10	mg/l	1	12/19/06	ST	EPA 310.1
Chloride	187	2.0	mg/l	1	12/30/06 16:11	VLP	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/28/06 19:42	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/28/06 19:42	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 00:29	MET	SM19 4500NO2B
Sulfate	1150	50	mg/l	5	01/02/07 19:10	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/11/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-MW-4B-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-4F	Date Received:	12/06/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	2.8	1.0	mg/l	1	12/28/06 23:34	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit

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## Report of Analysis

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Client Sample ID: GW-MW-4C-120506

Lab Sample ID: J48302-2

Matrix: AQ - Ground Water

Method: SW846 8260B

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/05/06

Date Received: 12/06/06

Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45428.D	1	12/15/06	PWC	n/a	n/a	V1A1943
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis



Client Sample ID:	GW-MW-4C-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-2	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		77-121%
17060-07-0	1,2-Dichloroethane-D4	98%		65-133%
2037-26-5	Toluene-D8	94%		80-117%
460-00-4	4-Bromofluorobenzene	84%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



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## Report of Analysis

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Client Sample ID: GW-MW-4C-120506

Lab Sample ID: J48302-2

Matrix: AQ - Ground Water

Method: SW846 8015

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/05/06

Date Received: 12/06/06

Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33617.D	1	12/14/06	HSC	n/a	n/a	GII1680
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	4.16	0.10	0.066	ug/l	
74-84-0	Ethane	0.12	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis



Client Sample ID:	GW-MW-4C-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-2	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	244000	50000	ug/l	5	12/21/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37346

RL = Reporting Limit

## Report of Analysis



Client Sample ID:	GW-MW-4C-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-2	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	188	25	mg/l	1	12/19/06	ST	EPA 310.1
Chloride	253	2.0	mg/l	1	12/30/06 15:35	VLP	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/28/06 19:40	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/28/06 19:40	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 00:29	MET	SM19 4500NO2B
Sulfate	1710	100	mg/l	10	01/02/07 18:52	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/10/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-4C-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-2F	Date Received:	12/06/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	12/28/06 23:20	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit



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## Report of Analysis

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Client Sample ID: GW-X-2-120506

Lab Sample ID: J48302-7

Date Sampled: 12/05/06

Matrix: AQ - Ground Water

Date Received: 12/06/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45435.D	1	12/15/06	PWC	n/a	n/a	V1A1943
Run #2 <sup>a</sup>	1A45614.D	1	12/21/06	PWC	n/a	n/a	V1A1952

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-X-2-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-7	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	112%	77-121%
17060-07-0	1,2-Dichloroethane-D4	117%	155% <sup>b</sup>	65-133%
2037-26-5	Toluene-D8	97%	92%	80-117%
460-00-4	4-Bromofluorobenzene	87%	112%	79-124%

(a) Confirmation run.

(b) Outside control limits.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-X-2-120506

Lab Sample ID: J48302-7

Matrix: AQ - Ground Water

Method: SW846 8015

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/05/06

Date Received: 12/06/06

Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33628.D	1	12/15/06	HSC	n/a	n/a	GII1681
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	4.46	0.10 J	0.066	ug/l	
74-84-0	Ethane	0.14	0.10 J	0.056	ug/l	
74-85-1	Ethene	ND	0.10 J	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-X-2-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-7	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	239000	50000	ug/l	5	12/21/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37346

RL = Reporting Limit



## Report of Analysis

Client Sample ID:	GW-X-2-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-7	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	159	5.0	mg/l	1	12/19/06	ST	EPA 310.1
Chloride	256	2.0	mg/l	1	12/30/06 17:43	VLP	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/30/06 12:36	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/30/06 12:36	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 01:09	MET	SM19 4500NO2B
Sulfate	1790	100	mg/l	10	01/02/07 19:47	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/11/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-X-2-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-7F	Date Received:	12/06/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	12/29/06 00:04	ESJ	EPA415.1/SW8469060M

---

RL = Reporting Limit

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## Report of Analysis

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Client Sample ID: GW-MW-5S-120506

Lab Sample ID: J48302-1

Date Sampled: 12/05/06

Matrix: AQ - Ground Water

Date Received: 12/06/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45393.D	1	12/14/06	PWC	n/a	n/a	V1A1942
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis



Client Sample ID:	GW-MW-5S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-1	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		77-121%
17060-07-0	1,2-Dichloroethane-D4	92%		65-133%
2037-26-5	Toluene-D8	95%		80-117%
460-00-4	4-Bromofluorobenzene	86%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-5S-120506

Lab Sample ID: J48302-1

Date Sampled: 12/05/06

Matrix: AQ - Ground Water

Date Received: 12/06/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33616.D	1	12/14/06	HSC	n/a	n/a	GII1680
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	21.8	0.10	0.066	ug/l	
74-84-0	Ethane	ND	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	GW-MW-5S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-1	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	< 10000	10000	ug/l	1	12/21/06	12/22/06 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18543

(2) Prep QC Batch: MP37346

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-5S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-1	Date Received:	12/06/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	739	25	mg/l	1	12/19/06	ST	EPA 310.1
Chloride	< 2.0	2.0	mg/l	1	12/30/06 15:16	VLP	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/28/06 19:38	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/28/06 19:38	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 00:29	MET	SM19 4500NO2B
Sulfate	12.3	10	mg/l	1	12/30/06 15:16	VLP	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/10/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-MW-5S-120506	Date Sampled:	12/05/06
Lab Sample ID:	J48302-1F	Date Received:	12/06/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

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## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	1.9	1.0	mg/l	1	12/28/06 23:10	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit



Accutest Laboratories

## Report of Analysis

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Client Sample ID: GW-MW-5B-120606

Lab Sample ID: J48443-7

Matrix: AQ - Ground Water

Method: SW846 8260B

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/06/06

Date Received: 12/07/06

Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45520.D	1	12/18/06	PWC	n/a	n/a	V1A1947
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7	5.0	4.6	ug/l	J
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-5B-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-7	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		77-121%
17060-07-0	1,2-Dichloroethane-D4	109%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	81%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



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## Report of Analysis

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Client Sample ID: GW-MW-5B-120606

Lab Sample ID: J48443-7

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33585.D	1	12/13/06	HSC	n/a	n/a	GII1679
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.97	0.10	0.066	ug/l	
74-84-0	Ethane	0.70	0.10	0.056	ug/l	
74-85-1	Ethene	0.35	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-5B-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-7	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	166000	50000	ug/l	5	12/26/06	12/27/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18563

(2) Prep QC Batch: MP37400

RL = Reporting Limit

## Report of Analysis

Client Sample ID: GW-MW-5B-120606

Lab Sample ID: J48443-7

Matrix: AQ - Ground Water

Date Sampled: 12/06/06

Date Received: 12/07/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	105	5.0	mg/l	1	12/20/06	JA	EPA 310.1
Chloride	123	2.0	mg/l	1	01/03/07 01:55	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/30/06 13:41	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/30/06 13:41	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 18:00	MET	SM19 4500NO2B
Sulfate	1840	100	mg/l	10	01/03/07 19:07	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/12/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-5B-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-7F	Date Received:	12/07/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	12/29/06 01:47	ESJ	EPA415.1/SW8469060M

---

RL = Reporting Limit



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## Report of Analysis

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Client Sample ID: GW-MW-6S-120606

Lab Sample ID: J48443-2

Matrix: AQ - Ground Water

Method: SW846 8260B

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/06/06

Date Received: 12/07/06

Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45606.D	500	12/20/06	PWC	n/a	n/a	V1A1952
Run #2	1A45605.D	2000	12/20/06	PWC	n/a	n/a	V1A1952

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2500	2300	ug/l	
71-43-2	Benzene	ND	500	190	ug/l	
75-27-4	Bromodichloromethane	ND	500	69	ug/l	
75-25-2	Bromoform	ND	500	260	ug/l	
74-83-9	Bromomethane	ND	500	190	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	710	ug/l	
75-15-0	Carbon disulfide	ND	500	190	ug/l	
56-23-5	Carbon tetrachloride	ND	500	260	ug/l	
108-90-7	Chlorobenzene	ND	500	370	ug/l	
75-00-3	Chloroethane	ND	500	320	ug/l	
67-66-3	Chloroform	ND	500	92	ug/l	
74-87-3	Chloromethane	ND	500	100	ug/l	
124-48-1	Dibromochloromethane	ND	500	84	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	45	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	280	ug/l	
75-35-4	1,1-Dichloroethene	ND	500	250	ug/l	
156-59-2	cis-1,2-Dichloroethene	186000 <sup>a</sup>	2000	360	ug/l	
156-60-5	trans-1,2-Dichloroethene	478	500	92	ug/l	J
78-87-5	1,2-Dichloropropane	ND	500	250	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	280	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	76	ug/l	
100-41-4	Ethylbenzene	ND	500	220	ug/l	
591-78-6	2-Hexanone	ND	2500	180	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	2500	250	ug/l	
75-09-2	Methylene chloride	ND	1000	270	ug/l	
100-42-5	Styrene	ND	500	34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	54	ug/l	
127-18-4	Tetrachloroethene	ND	500	190	ug/l	
108-88-3	Toluene	24900	500	200	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	47	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	77	ug/l	
79-01-6	Trichloroethene	ND	500	80	ug/l	

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis



Client Sample ID:	GW-MW-6S-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-2	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	73200	500	380	ug/l	
1330-20-7	Xylene (total)	854	500	170	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	92%	77-121%
17060-07-0	1,2-Dichloroethane-D4	109%	100%	65-133%
2037-26-5	Toluene-D8	92%	91%	80-117%
460-00-4	4-Bromofluorobenzene	105%	102%	79-124%

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-6S-120606

Lab Sample ID: J48443-2

Matrix: AQ - Ground Water

Method: SW846 8015

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/06/06

Date Received: 12/07/06

Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33724.D	25	12/20/06	HSC	n/a	n/a	GII1684
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	3520	2.5 J	1.6	ug/l	
74-84-0	Ethane	718	2.5 ↓	1.4	ug/l	
74-85-1	Ethene	2710	2.5 ↓	1.9	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis



Client Sample ID:	GW-MW-6S-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-2	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	67800	10000	ug/l	1	12/26/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37400

RL = Reporting Limit

## Report of Analysis



Client Sample ID: GW-MW-6S-120606

Lab Sample ID: J48443-2

Matrix: AQ - Ground Water

Date Sampled: 12/06/06

Date Received: 12/07/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	439	17	mg/l	1	12/20/06	JA	EPA 310.1
Chloride	236	2.0	mg/l	1	01/02/07 23:46	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/30/06 13:36	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/30/06 13:36	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 17:55	MET	SM19 4500NO2B
Sulfate	10.4	10	mg/l	1	01/02/07 23:46	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/12/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-6S-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-2F	Date Received:	12/07/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	33.8	5.0	mg/l	5	01/03/07 17:08	ESJ	EPA415.1/SW8469060M

---

RL = Reporting Limit

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## Report of Analysis

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Client Sample ID: GW-MW-6B-120606

Lab Sample ID: J48443-1

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45608.D	100	12/20/06	PWC	n/a	n/a	V1A1952
Run #2	1A45438.D	500	12/15/06	PWC	n/a	n/a	V1A1943

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	460	ug/l	
71-43-2	Benzene	ND	100	37	ug/l	
75-27-4	Bromodichloromethane	ND	100	14	ug/l	
75-25-2	Bromoform	ND	100	52	ug/l	
74-83-9	Bromomethane	ND	100	39	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	140	ug/l	
75-15-0	Carbon disulfide	ND	100	38	ug/l	
56-23-5	Carbon tetrachloride	ND	100	53	ug/l	
108-90-7	Chlorobenzene	ND	100	74	ug/l	
75-00-3	Chloroethane	ND	100	65	ug/l	
67-66-3	Chloroform	ND	100	18	ug/l	
74-87-3	Chloromethane	ND	100	20	ug/l	
124-48-1	Dibromochloromethane	ND	100	17	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	8.9	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	57	ug/l	
75-35-4	1,1-Dichloroethene	59.3	100	49	ug/l	J
156-59-2	cis-1,2-Dichloroethene	50400 <sup>a</sup>	500	89	ug/l	
156-60-5	trans-1,2-Dichloroethene	119	100	18	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	15	ug/l	
100-41-4	Ethylbenzene	ND	100	44	ug/l	
591-78-6	2-Hexanone	ND	500	35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	50	ug/l	
75-09-2	Methylene chloride	ND	200	53	ug/l	
100-42-5	Styrene	ND	100	6.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	11	ug/l	
127-18-4	Tetrachloroethene	ND	100	39	ug/l	
108-88-3	Toluene	ND	100	41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	9.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	15	ug/l	
79-01-6	Trichloroethene	95.5	100	16	ug/l	J

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis



Client Sample ID:	GW-MW-6B-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-1	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	1750	100	77	ug/l	
1330-20-7	Xylene (total)	ND	100	34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	102%	77-121%
17060-07-0	1,2-Dichloroethane-D4	124%	119%	65-133%
2037-26-5	Toluene-D8	94%	97%	80-117%
460-00-4	4-Bromofluorobenzene	109%	87%	79-124%

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-6B-120606  
Lab Sample ID: J48443-1  
Matrix: AQ - Ground Water  
Method: SW846 8015  
Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/06/06  
Date Received: 12/07/06  
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33577.D	1	12/13/06	HSC	n/a	n/a	GII1679
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	93.0	0.10	0.066	ug/l	
74-84-0	Ethane	2.0	0.10	0.056	ug/l	
74-85-1	Ethene	41.3	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-6B-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-1	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	73600	10000	ug/l	1	12/26/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37400

RL = Reporting Limit



## Report of Analysis

Client Sample ID:	GW-MW-6B-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-1	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	256	5.0	mg/l	1	12/20/06	JA	EPA 310.1
Chloride	144	2.0	mg/l	1	01/02/07 23:28	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/30/06 13:35	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/30/06 13:35	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 17:55	MET	SM19 4500NO2B
Sulfate	1420	100	mg/l	10	01/03/07 18:30	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/12/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis



<b>Client Sample ID:</b> GW-MW-6B-120606	<b>Date Sampled:</b> 12/06/06
<b>Lab Sample ID:</b> J48443-1F	<b>Date Received:</b> 12/07/06
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	1.5	1.0	mg/l	1	12/29/06 00:35	ESJ	EPA415.1/SW8469060M

---

RL = Reporting Limit

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## Report of Analysis

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Client Sample ID: GW-MW-7S-120406

Lab Sample ID: J48143-1

Date Sampled: 12/04/06

Matrix: AQ - Ground Water

Date Received: 12/05/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45179.D	1	12/08/06	PWC	n/a	n/a	V1A1932
Run #2	1A45392.D	5	12/14/06	PWC	n/a	n/a	V1A1942

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	0.62	1.0	0.49	ug/l	J
156-59-2	cis-1,2-Dichloroethene	414 <sup>a</sup>	5.0	0.89	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.5	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	0.46	1.0	0.16	ug/l	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-7S-120406	Date Sampled:	12/04/06
Lab Sample ID:	J48143-1	Date Received:	12/05/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	12.4	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%	88%	77-121%
17060-07-0	1,2-Dichloroethane-D4	101%	89%	65-133%
2037-26-5	Toluene-D8	98%	95%	80-117%
460-00-4	4-Bromofluorobenzene	90%	86%	79-124%

(a) Result is from Run# 2

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-7S-120406

Lab Sample ID: J48143-1

Date Sampled: 12/04/06

Matrix: AQ - Ground Water

Date Received: 12/05/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33518.D	1	12/11/06	HSC	n/a	n/a	GII1677
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.28	0.10	0.066	ug/l	
74-84-0	Ethane	ND	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: GW-MW-7S-120406

Lab Sample ID: J48143-1

Date Sampled: 12/04/06

Matrix: AQ - Ground Water

Date Received: 12/05/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	37700	10000	ug/l	1	12/21/06	12/22/06 ND	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18543

(2) Prep QC Batch: MP37346

RL = Reporting Limit

## Report of Analysis

Client Sample ID: GW-MW-7S-120406

Lab Sample ID: J48143-1

Date Sampled: 12/04/06

Matrix: AQ - Ground Water

Date Received: 12/05/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	352	5.0	mg/l	1	12/16/06	KD	EPA 310.1
Chloride	74.2	2.0	mg/l	1	12/29/06 07:08	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/21/06 15:10	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/21/06 15:10	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/05/06 15:03	AO	SM19 4500NO2B
Sulfate	231	10	mg/l	1	12/29/06 07:08	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> GW-MW-7S-120406	<b>Date Sampled:</b> 12/04/06
<b>Lab Sample ID:</b> J48143-1F	<b>Date Received:</b> 12/05/06
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	1.3	1.0	mg/l	1	12/28/06 22:13	ESJ	EPA415.1/SW8469060M

---

RL = Reporting Limit

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## Report of Analysis

Page 1 of 2

Client Sample ID: GW-MW-7B-120406

Lab Sample ID: J48143-2

Date Sampled: 12/04/06

Matrix: AQ - Ground Water

Date Received: 12/05/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45175.D	1	12/08/06	PWC	n/a	n/a	VIA1932
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.58	1.0	0.18	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	0.35	1.0	0.16	ug/l	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis



Client Sample ID:	GW-MW-7B-120406	Date Sampled:	12/04/06
Lab Sample ID:	J48143-2	Date Received:	12/05/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		77-121%
17060-07-0	1,2-Dichloroethane-D4	103%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	89%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-7B-120406

Lab Sample ID: J48143-2

Date Sampled: 12/04/06

Matrix: AQ - Ground Water

Date Received: 12/05/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33519.D	1	12/11/06	HSC	n/a	n/a	GII1677
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	7.1	0.10	0.066	ug/l	
74-84-0	Ethane	0.30	0.10	0.056	ug/l	
74-85-1	Ethene	0.62	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-7B-120406	Date Sampled:	12/04/06
Lab Sample ID:	J48143-2	Date Received:	12/05/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	90600	20000	ug/l	2	12/21/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37346

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-7B-120406	Date Sampled:	12/04/06
Lab Sample ID:	J48143-2	Date Received:	12/05/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	16.1	5.0	mg/l	1	12/16/06	KD	EPA 310.1
Chloride	40.6	2.0	mg/l	1	12/29/06 06:50	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	0.19	0.11	mg/l	1	12/21/06 14:48	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.19	0.10	mg/l	1	12/21/06 14:48	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/05/06 15:03	AO	SM19 4500NO2B
Sulfate	1740	100	mg/l	10	12/30/06 02:28	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-MW-7B-120406	Date Sampled:	12/04/06
Lab Sample ID:	J48143-2F	Date Received:	12/05/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon <sup>a</sup>	< 5.0	5.0	mg/l	5	12/28/06 22:37	ESJ	EPA415.1/SW8469060M

(a) Dilution required due to difficult sample matrix.

RL = Reporting Limit



## Report of Analysis

Client Sample ID: GW-MW-8S-113006

Lab Sample ID: J47796-3

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/01/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120654.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0 R	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0 R	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	GW-MW-8S-113006	<b>Date Sampled:</b>	11/30/06
<b>Lab Sample ID:</b>	J47796-3	<b>Date Received:</b>	12/01/06
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		77-121%
17060-07-0	1,2-Dichloroethane-D4	119%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	108%		79-124%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID: GW-MW-8S-113006

Lab Sample ID: J47796-3

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/01/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33501.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.13	0.10	0.066	ug/l	
74-84-0	Ethane	ND	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

Page 1 of 1

Client Sample ID:	GW-MW-8S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47796-3	Date Received:	12/01/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	158000	30000	ug/l	3	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18529

(2) Prep QC Batch: MP37272

RL = Reporting Limit

: 00031

## Report of Analysis

<b>Client Sample ID:</b>	GW-MW-8S-113006	<b>Date Sampled:</b>	11/30/06
<b>Lab Sample ID:</b>	J47796-3	<b>Date Received:</b>	12/01/06
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	409	13	mg/l	1	12/12/06	ST	EPA 310.1
Chloride	248	2.0	mg/l	1	12/21/06 00:18	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	0.17	0.11	mg/l	1	12/21/06 14:47	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.17	0.10	mg/l	1	12/21/06 14:47	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	12/01/06 15:50	ST	SM19 4500NO2B
Sulfate	67.3	2.0	mg/l	1	12/21/06 00:18	JH	EPA 300/SW846 9056
Sulfide	<2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b> GW-MW-8S-113006	<b>Date Sampled:</b> 11/30/06
<b>Lab Sample ID:</b> J47796-3F	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	1.4	1.0	mg/l	1	12/22/06 00:21	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit

: 00033

## Report of Analysis

Client Sample ID: GW-MW-9S-113006

Lab Sample ID: J47796-5

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/01/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120650.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	0.55	1.0	0.38	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-9S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47796-5	Date Received:	12/01/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		77-121%
17060-07-0	1,2-Dichloroethane-D4	115%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	110%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID: GW-MW-9S-113006

Lab Sample ID: J47796-5

Matrix: AQ - Ground Water

Method: SW846 8015

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 11/30/06

Date Received: 12/01/06

Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1133504.D	1	12/08/06	HSC	n/a	n/a	G111676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	4.00	0.10	0.066	ug/l	
74-84-0	Ethane	0.11	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b> GW-MW-9S-113006	<b>Date Sampled:</b> 11/30/06
<b>Lab Sample ID:</b> J47796-5	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	58900	10000	ug/l	1	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18522

(2) Prep QC Batch: MP37272

RL = Reporting Limit

: 00043

## Report of Analysis

<b>Client Sample ID:</b> GW-MW-9S-113006	<b>Date Sampled:</b> 11/30/06
<b>Lab Sample ID:</b> J47796-5	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	340	13	mg/l	1	12/12/06	ST	EPA 310.1
Chloride	55.5	2.0	mg/l	1	12/21/06 02:09	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	<0.11	0.11	mg/l	1	12/21/06 14:55	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	12/21/06 14:55	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	12/01/06 14:45	ST	SM19 4500NO2B
Sulfate	96.3	2.0	mg/l	1	12/21/06 02:09	JH	EPA 300/SW846 9056
Sulfide	<2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

## Report of Analysis

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<b>Client Sample ID:</b> GW-MW-9S-113006	<b>Date Sampled:</b> 11/30/06
<b>Lab Sample ID:</b> J47796-5F	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	5.1	1.0	mg/l	1	12/22/06 01:03	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit

: 00045



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## Report of Analysis

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3

Client Sample ID: GW-MW-10B-113006

Lab Sample ID: J47958-5

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120644.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-10B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-5	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		77-121%
17060-07-0	1,2-Dichloroethane-D4	111%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	107%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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3

Client Sample ID: GW-MW-10B-113006

Lab Sample ID: J47958-5

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33489.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2.27	0.10	0.066	ug/l	
74-84-0	Ethane	ND	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis



Client Sample ID: GW-MW-10B-113006

Lab Sample ID: J47958-5

Matrix: AQ - Ground Water

Date Sampled: 11/30/06

Date Received: 12/02/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	568000	100000	ug/l	10	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18529

(2) Prep QC Batch: MP37272

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-10B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-5	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	152	13	mg/l	1	12/14/06	ST	EPA 310.1
Chloride <sup>a</sup>	751	20	mg/l	10	12/29/06 22:47	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>b</sup>	< 0.11	0.11	mg/l	1	12/21/06 15:03	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/21/06 15:03	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite <sup>c</sup>	0.025	0.010	mg/l	1	12/02/06 14:00	HF	SM19 4500NO2B
Sulfate <sup>d</sup>	1970	100	mg/l	10	12/29/06 22:47	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

- (a) Initially analyzed within holding time, but over calibration. Reanalysis on dilution done 1 day out of holding time.
- (b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
- (c) Analysis done out of holding time. Spike blank indicates possible slight high bias (113% recovery).
- (d) Initially analyzed within holding time, but over calibration. Reanalysis on dilution done 1 day out of holding time.

RL = Reporting Limit

## Report of Analysis

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3

Client Sample ID:	GW-MW-10B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-5F	Date Received:	12/02/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	12/26/06 18:34	MO	EPA415.1/SW8469060M

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RL = Reporting Limit



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## Report of Analysis

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3

Client Sample ID: GW-MW-11S-113006

Lab Sample ID: J47958-3

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120642.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-11S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-3	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		77-121%
17060-07-0	1,2-Dichloroethane-D4	111%		65-133%
2037-26-5	Toluene-D8	95%		80-117%
460-00-4	4-Bromofluorobenzene	105%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-11S-113006

Lab Sample ID: J47958-3

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33486.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	218	0.10	0.066	ug/l	
74-84-0	Ethane	ND	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	GW-MW-11S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-3	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	10900	10000	ug/l	1	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18522

(2) Prep QC Batch: MP37272

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RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-11S-113006		
Lab Sample ID:	J47958-3	Date Sampled:	11/30/06
Matrix:	AQ - Ground Water	Date Received:	12/02/06
		Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	442	13	mg/l	1	12/14/06	ST	EPA 310.1
Chloride	10.1	2.0	mg/l	1	12/28/06 00:43	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/21/06 15:00	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/21/06 15:00	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite <sup>b</sup>	< 0.010	0.010	mg/l	1	12/02/06 14:00	HF	SM19 4500NO2B
Sulfate	24.3	10	mg/l	1	12/28/06 00:43	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis done out of holding time.

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-11S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-3F	Date Received:	12/02/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	2.5	1.0	mg/l	1	12/26/06 18:20	MO	EPA415.1/SW8469060M

---

RL = Reporting Limit



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## Report of Analysis

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3

Client Sample ID: GW-MW-11B-113006

Lab Sample ID: J47958-4

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120643.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0 <i>R</i>	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0 <i>R</i>	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

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3

Client Sample ID:	GW-MW-11B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-4	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		77-121%
17060-07-0	1,2-Dichloroethane-D4	108%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	107%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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3

Client Sample ID: GW-MW-11B-113006

Lab Sample ID: J47958-4

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33488.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2.87	0.10	0.066	ug/l	
74-84-0	Ethane	ND	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	GW-MW-11B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-4	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	477000	100000	ug/l	10	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18529

(2) Prep QC Batch: MP37272

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-11B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-4	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	159	13	mg/l	1	12/14/06	ST	EPA 310.1
Chloride <sup>a</sup>	613	20 J	mg/l	10	12/29/06 21:52	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>b</sup>	< 0.11	0.11	mg/l	1	12/21/06 15:01	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/21/06 15:01	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite <sup>c</sup>	< 0.010	0.010	mg/l	1	12/02/06 14:00	HF	SM19 4500NO2B
Sulfate <sup>d</sup>	1930	100 J	mg/l	10	12/29/06 21:52	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

- (a) Initially analyzed within holding time, but over calibration. Reanalysis on dilution done 1 day out of holding time.
- (b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
- (c) Analysis done out of holding time.
- (d) Initially analyzed within holding time, but over calibration. Reanalysis on dilution done 1 day out of holding time.

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-MW-11B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-4F	Date Received:	12/02/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	<1.0	1.0	mg/l	1	12/26/06 18:26	MO	EPA415.1/SW8469060M

RL = Reporting Limit



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## Report of Analysis

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3

Client Sample ID: GW-MW-12S-113006

Lab Sample ID: J47958-1

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120640.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0 <sup>P</sup>	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0 <sup>P</sup>	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-12S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-1	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		77-121%
17060-07-0	1,2-Dichloroethane-D4	107%		65-133%
2037-26-5	Toluene-D8	99%		80-117%
460-00-4	4-Bromofluorobenzene	105%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-12S-113006  
Lab Sample ID: J47958-1  
Matrix: AQ - Ground Water  
Method: SW846 8015  
Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 11/30/06  
Date Received: 12/02/06  
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33484.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	34.3	0.10	0.066	ug/l	
74-84-0	Ethane	ND	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	GW-MW-12S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-1	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	< 10000	10000	ug/l	1	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18522

(2) Prep QC Batch: MP37272

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-12S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-1	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	629	13	mg/l	1	12/14/06	ST	EPA 310.1
Chloride	3.0	2.0	mg/l	1	12/27/06 23:30	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	5.3	0.21	mg/l	1	12/21/06 17:03	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	5.3	0.20	mg/l	2	12/21/06 17:03	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite <sup>b</sup>	< 0.010	0.010	mg/l	1	12/02/06 14:00	HF	SM19 4500NO2B
Sulfate	72.4	10	mg/l	1	12/27/06 23:30	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis done out of holding time.

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-12S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-1F	Date Received:	12/02/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	3.8	1.0	mg/l	1	12/26/06 18:03	MO	EPA415.1/SW8469060M

RL = Reporting Limit



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## Report of Analysis

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Client Sample ID:	GW-MW-12B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-2	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120641.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0 <sup>P</sup>	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0 <sup>P</sup>	1.4	ug/l	
75-15-0	Carbon disulfide	1.0	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-12B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-2	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		77-121%
17060-07-0	1,2-Dichloroethane-D4	109%		65-133%
2037-26-5	Toluene-D8	98%		80-117%
460-00-4	4-Bromofluorobenzene	105%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-12B-113006

Lab Sample ID: J47958-2

Date Sampled: 11/30/06

Matrix: AQ - Ground Water

Date Received: 12/02/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33485.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2.53	0.10	0.066	ug/l	
74-84-0	Ethane	0.89	0.10	0.056	ug/l	
74-85-1	Ethene	0.36	0.10	0.075	ug/l	

ND = Not detected    MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: GW-MW-12B-113006

Lab Sample ID: J47958-2

Matrix: AQ - Ground Water

Date Sampled: 11/30/06

Date Received: 12/02/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	778000	250000	ug/l	25	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18529

(2) Prep QC Batch: MP37272

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-12B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-2	Date Received:	12/02/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	59.7	5.0	mg/l	1	12/14/06	ST	EPA 310.1
Chloride <sup>a</sup>	964	20 J	mg/l	10	12/29/06 21:34	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>b</sup>	< 0.11	0.11	mg/l	1	12/21/06 14:59	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/21/06 14:59	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite <sup>c</sup>	< 0.010	0.010	mg/l	1	12/02/06 14:00	HF	SM19 4500NO2B
Sulfate <sup>d</sup>	2130	100 J	mg/l	10	12/29/06 21:34	JH	EPA 300/SW846 9056
Sulfide	3.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

- (a) Initially analyzed within holding time, but over calibration. Reanalysis on dilution done 1 day out of holding time.
- (b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
- (c) Analysis done out of holding time.
- (d) Initially analyzed within holding time, but over calibration. Reanalysis on dilution done 1 day out of holding time.

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-12B-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47958-2F	Date Received:	12/02/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	12/26/06 18:09	MO	EPA415.1/SW8469060M

RL = Reporting Limit



## Report of Analysis

Client Sample ID: GW-MW-13S-113006

Lab Sample ID: J47796-4

Matrix: AQ - Ground Water

Method: SW846 8260B

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 11/30/06

Date Received: 12/01/06

Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120655.D	40	12/06/06	YL	n/a	n/a	VD4809
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	200	180	ug/l	
71-43-2	Benzene	ND	40	15	ug/l	
75-27-4	Bromodichloromethane	ND	40	5.5	ug/l	
75-25-2	Bromoform	ND	40	21	ug/l	
74-83-9	Bromomethane	ND	40	15	ug/l	
78-93-3	2-Butanone (MEK)	ND	200	57	ug/l	
75-15-0	Carbon disulfide	ND	40	15	ug/l	
56-23-5	Carbon tetrachloride	ND	40	21	ug/l	
108-90-7	Chlorobenzene	ND	40	29	ug/l	
75-00-3	Chloroethane	ND	40	26	ug/l	
67-66-3	Chloroform	ND	40	7.3	ug/l	
74-87-3	Chloromethane	ND	40	8.0	ug/l	
124-48-1	Dibromochloromethane	ND	40	6.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	40	3.6	ug/l	
107-06-2	1,2-Dichloroethane	ND	40	23	ug/l	
75-35-4	1,1-Dichloroethene	ND	40	20	ug/l	
156-59-2	cis-1,2-Dichloroethene	6870	40	7.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	40	7.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	40	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	40	22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	40	6.0	ug/l	
100-41-4	Ethylbenzene	ND	40	18	ug/l	
591-78-6	2-Hexanone	ND	200	14	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	200	20	ug/l	
75-09-2	Methylene chloride	ND	80	21	ug/l	
100-42-5	Styrene	ND	40	2.8	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	40	4.3	ug/l	
127-18-4	Tetrachloroethene	ND	40	16	ug/l	
108-88-3	Toluene	ND	40	16	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	40	3.8	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	40	6.1	ug/l	
79-01-6	Trichloroethene	845	40	6.4	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-13S-113006	Date Sampled:	11/30/06
Lab Sample ID:	J47796-4	Date Received:	12/01/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	348	40	31	ug/l	
1330-20-7	Xylene (total)	ND	40	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		77-121%
17060-07-0	1,2-Dichloroethane-D4	118%		65-133%
2037-26-5	Toluene-D8	97%		80-117%
460-00-4	4-Bromofluorobenzene	107%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID: GW-MW-13S-113006

Lab Sample ID: J47796-4

Matrix: AQ - Ground Water

Method: SW846 8015

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 11/30/06

Date Received: 12/01/06

Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33503.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	115	0.10	0.066	ug/l	
74-84-0	Ethane	13.2	0.10	0.056	ug/l	
74-85-1	Ethene	22.9	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

: 00036

## Report of Analysis

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<b>Client Sample ID:</b> GW-MW-13S-113006	<b>Date Sampled:</b> 11/30/06
<b>Lab Sample ID:</b> J47796-4	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	93800	20000	ug/l	2	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18529

(2) Prep QC Batch: MP37272

RL = Reporting Limit

: 00037

## Report of Analysis

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<b>Client Sample ID:</b> GW-MW-13S-113006	<b>Date Sampled:</b> 11/30/06
<b>Lab Sample ID:</b> J47796-4	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	289	13	mg/l	1	12/12/06	ST	EPA 310.1
Chloride	163	2.0	mg/l	1	12/21/06 01:50	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	<0.11	0.11	mg/l	1	12/21/06 14:54	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	12/21/06 14:54	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	12/01/06 15:50	ST	SM19 4500NO2B
Sulfate	878	8.0	mg/l	4	12/27/06 02:34	JH	EPA 300/SW846 9056
Sulfide	<2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

: 00038

## Report of Analysis

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<b>Client Sample ID:</b> GW-MW-13S-113006	<b>Date Sampled:</b> 11/30/06
<b>Lab Sample ID:</b> J47796-4F	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	5.4	1.0	mg/l	1	12/22/06 00:56	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit

: 00039



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Client Sample ID: GW-MW-145-120606  
 Lab Sample ID: J48443-8  
 Matrix: AQ - Ground Water  
 Method: SW846 8260B  
 Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/06/06  
 Date Received: 12/07/06  
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45424.D	50	12/15/06	PWC	n/a	n/a	V1A1943
Run #2	1A45423.D	500	12/15/06	PWC	n/a	n/a	V1A1943

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	250	230	ug/l	
71-43-2	Benzene	ND	50	19	ug/l	
75-27-4	Bromodichloromethane	ND	50	6.9	ug/l	
75-25-2	Bromoform	ND	50	26	ug/l	
74-83-9	Bromomethane	ND	50	19	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	71	ug/l	
75-15-0	Carbon disulfide	ND	50	19	ug/l	
56-23-5	Carbon tetrachloride	ND	50	26	ug/l	
108-90-7	Chlorobenzene	ND	50	37	ug/l	
75-00-3	Chloroethane	ND	50	32	ug/l	
67-66-3	Chloroform	ND	50	9.2	ug/l	
74-87-3	Chloromethane	ND	50	10	ug/l	
124-48-1	Dibromochloromethane	ND	50	8.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	4.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	28	ug/l	
75-35-4	1,1-Dichloroethene	51.8	50	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	28200 <sup>a</sup>	500	89	ug/l	
156-60-5	trans-1,2-Dichloroethene	80.0	50	9.2	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	28	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	7.6	ug/l	
100-41-4	Ethylbenzene	ND	50	22	ug/l	
591-78-6	2-Hexanone	ND	250	18	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	25	ug/l	
75-09-2	Methylene chloride	ND	100	27	ug/l	
100-42-5	Styrene	ND	50	3.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	5.4	ug/l	
127-18-4	Tetrachloroethene	ND	50	19	ug/l	
108-88-3	Toluene	639	50	20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	4.7	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	7.7	ug/l	
79-01-6	Trichloroethene	254	50	8.0	ug/l	

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-148-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-8 <i>5</i> <i>SP</i>	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	4610	50	38	ug/l	
1330-20-7	Xylene (total)	ND	50	17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%	90%	77-121%
17060-07-0	1,2-Dichloroethane-D4	99%	96%	65-133%
2037-26-5	Toluene-D8	97%	97%	80-117%
460-00-4	4-Bromofluorobenzene	86%	84%	79-124%

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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3

Client Sample ID: GW-MW-145-120606  
Lab Sample ID: J48443-8  
Matrix: AQ - Ground Water  
Method: SW846 8015  
Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/06/06  
Date Received: 12/07/06  
Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33587.D	1	12/13/06	HSC	n/a	n/a	GII1679
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	588	0.10	0.066	ug/l	
74-84-0	Ethane	151	0.10	0.056	ug/l	
74-85-1	Ethene	215	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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3.15

3

Client Sample ID: GW-MW-145-120606

Lab Sample ID: J48443-8 *SVP*

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	90400	20000	ug/l	2	12/26/06	12/27/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18563

(2) Prep QC Batch: MP37400

RL = Reporting Limit

## Report of Analysis

Client Sample ID: GW-MW-145-120606

Lab Sample ID: J48443-8 *5* *PK*

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	371	17	mg/l	1	12/20/06	JA	EPA 310.1
Chloride	141	2.0	mg/l	1	01/03/07 02:14	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/30/06 13:45	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/30/06 13:45	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 18:00	MET	SM19 4500NO2B
Sulfate	355	10	mg/l	1	01/03/07 02:14	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/12/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

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3

Client Sample ID: GW-MW-145-120606

Lab Sample ID: J48443-8F *5 QP*

Date Sampled: 12/06/06

Matrix: AQ - Groundwater Filtered

Date Received: 12/07/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	6.7	1.0	mg/l	1	12/29/06 01:54	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit



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## Report of Analysis

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Client Sample ID: GW-MW-15S-120706

Lab Sample ID: J48660-1

Date Sampled: 12/07/06

Matrix: AQ - Ground Water

Date Received: 12/08/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A32189.D	25	12/21/06	LY	n/a	n/a	V3A1345
Run #2 <sup>a</sup>	1A45616.D	50	12/21/06	PWC	n/a	n/a	V1A1952
Run #3	1A45523.D	200	12/18/06	PWC	n/a	n/a	V1A1947

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	120	ug/l	
71-43-2	Benzene	ND	25	9.3	ug/l	
75-27-4	Bromodichloromethane	ND	25	3.4	ug/l	
75-25-2	Bromoform	ND	25	13	ug/l	
74-83-9	Bromomethane	ND	25	9.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	130	36	ug/l	
75-15-0	Carbon disulfide	ND	25	9.5	ug/l	
56-23-5	Carbon tetrachloride	ND	25	13	ug/l	
108-90-7	Chlorobenzene	ND	25	18	ug/l	
75-00-3	Chloroethane	ND	25	16	ug/l	
67-66-3	Chloroform	ND	25	4.6	ug/l	
74-87-3	Chloromethane	ND	25	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	25	4.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	2.2	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	14	ug/l	
75-35-4	1,1-Dichloroethene	13.7	25	12	ug/l	J
156-59-2	cis-1,2-Dichloroethene	20800 <sup>b</sup>	200	36	ug/l	
156-60-5	trans-1,2-Dichloroethene	30.8	25	4.6	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	3.8	ug/l	
100-41-4	Ethylbenzene	ND	25	11	ug/l	
591-78-6	2-Hexanone	ND	130	8.8	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	130	13	ug/l	
75-09-2	Methylene chloride	ND	50	13	ug/l	
100-42-5	Styrene	ND	25	1.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	2.7	ug/l	
127-18-4	Tetrachloroethene	ND	25	9.7	ug/l	
108-88-3	Toluene	98.9	25	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	2.4	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-15S-120706		
Lab Sample ID:	J48660-1	Date Sampled:	12/07/06
Matrix:	AQ - Ground Water	Date Received:	12/08/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-00-5	1,1,2-Trichloroethane	ND	25	3.8	ug/l	
79-01-6	Trichloroethene	5.6	25	4.0	ug/l	J
75-01-4	Vinyl chloride	9040 <sup>b</sup>	200	150	ug/l	
1330-20-7	Xylene (total)	ND	25	8.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	93%	111%	99%	77-121%
17060-07-0	1,2-Dichloroethane-D4	86%	157% <sup>c</sup>	111%	65-133%
2037-26-5	Toluene-D8	95%	94%	97%	80-117%
460-00-4	4-Bromofluorobenzene	97%	115%	83%	79-124%

(a) for qc purpose only

(b) Result is from Run# 3

(c) Outside control limits due to matrix interference.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID:	GW-MW-15S-120706				
Lab Sample ID:	J48660-1	Date Sampled:	12/07/06		
Matrix:	AQ - Ground Water	Date Received:	12/08/06		
Method:	SW846 8015	Percent Solids:	n/a		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33749.D	5	12/21/06	HSC	n/a	n/a	GII1685
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6660	0.50	0.33	ug/l	
74-84-0	Ethane	426	0.50	0.28	ug/l	
74-85-1	Ethene	512	0.50	0.38	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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3.1

Client Sample ID:	GW-MW-15S-120706	Date Sampled:	12/07/06
Lab Sample ID:	J48660-1	Date Received:	12/08/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	68200	10000	ug/l	1	12/26/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37400

RL = Reporting Limit

## Report of Analysis

Client Sample ID: GW-MW-15S-120706

Lab Sample ID: J48660-1

Date Sampled: 12/07/06

Matrix: AQ - Ground Water

Date Received: 12/08/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	550	13	mg/l	1	12/21/06	ST	EPA 310.1
Chloride	122	2.0	mg/l	1	01/04/07 06:46	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	01/02/07 17:04	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	01/02/07 17:04	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/08/06 22:30	MET	SM19 4500NO2B
Sulfate	18.3	10	mg/l	1	01/04/07 06:46	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/12/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> GW-MW-15S-120706	<b>Date Sampled:</b> 12/07/06
<b>Lab Sample ID:</b> J48660-1F	<b>Date Received:</b> 12/08/06
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	11.7	1.0	mg/l	1	12/31/06 01:45	ESJ	EPA415.1/SW8469060M

---

RL = Reporting Limit



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## Report of Analysis

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3

Client Sample ID: GW-MW-16S-120606  
 Lab Sample ID: J48443-4  
 Matrix: AQ - Ground Water  
 Method: SW846 8260B  
 Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Date Sampled: 12/06/06  
 Date Received: 12/07/06  
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45610.D	1	12/20/06	PWC	n/a	n/a	V1A1952
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.7	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	8.4	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-16S-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-4	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		77-121%
17060-07-0	1,2-Dichloroethane-D4	133%		65-133%
2037-26-5	Toluene-D8	93%		80-117%
460-00-4	4-Bromofluorobenzene	110%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID:	GW-MW-16S-120606			Date Sampled:	12/06/06		
Lab Sample ID:	J48443-4			Date Received:	12/07/06		
Matrix:	AQ - Ground Water			Percent Solids:	n/a		
Method:	SW846 8015						
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY						

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	II33581.D	1	12/13/06	HSC	n/a	n/a	GII1679

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2.07	0.10	0.066	ug/l	
74-84-0	Ethane	0.35	0.10	0.056	ug/l	
74-85-1	Ethene	0.13	0.10	0.075	ug/l	

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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3

Client Sample ID: GW-MW-16S-120606

Lab Sample ID: J48443-4

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	20000	10000	ug/l	1	12/26/06	12/26/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18554

(2) Prep QC Batch: MP37400

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-16S-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-4	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	134	5.0	mg/l	1	12/20/06	JA	EPA 310.1
Chloride	13.1	2.0	mg/l	1	01/03/07 01:00	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	2.0	0.11	mg/l	1	12/30/06 13:38	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	2.0	0.10	mg/l	1	12/30/06 13:38	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 18:00	MET	SM19 4500NO2B
Sulfate	19.2	10	mg/l	1	01/03/07 01:00	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/12/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

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Client Sample ID:	GW-MW-16S-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-4F	Date Received:	12/07/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	1.7	1.0	mg/l	1	12/29/06 01:23	ESJ	EPA415.1/SW8469060M

RL = Reporting Limit



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## Report of Analysis

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Client Sample ID: GW-MW-16B-120606

Lab Sample ID: J48443-3

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Method: SW846 8260B

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A45609.D	1	12/20/06	PWC	n/a	n/a	V1A1952
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	16.0	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	0.72	1.0	0.41	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	GW-MW-16B-120606		
Lab Sample ID:	J48443-3	Date Sampled:	12/06/06
Matrix:	AQ - Ground Water	Date Received:	12/07/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	1.2	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		77-121%
17060-07-0	1,2-Dichloroethane-D4	128%		65-133%
2037-26-5	Toluene-D8	93%		80-117%
460-00-4	4-Bromofluorobenzene	108%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

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## Report of Analysis

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Client Sample ID: GW-MW-16B-120606

Lab Sample ID: J48443-3

Date Sampled: 12/06/06

Matrix: AQ - Ground Water

Date Received: 12/07/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33580.D	1	12/13/06	HSC	n/a	n/a	GII1679
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.70	0.10	0.066	ug/l	
74-84-0	Ethane	0.60	0.10	0.056	ug/l	
74-85-1	Ethene	0.72	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	GW-MW-16B-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-3	Date Received:	12/07/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	153000	30000	ug/l	3	12/26/06	12/27/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18563

(2) Prep QC Batch: MP37400

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b>	GW-MW-16B-120606	<b>Date Sampled:</b>	12/06/06
<b>Lab Sample ID:</b>	J48443-3	<b>Date Received:</b>	12/07/06
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	37.6	5.0	mg/l	1	12/20/06	JA	EPA 310.1
Chloride	128	2.0	mg/l	1	01/03/07 00:05	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	mg/l	1	12/30/06 13:37	MR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	12/30/06 13:37	MR	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	12/07/06 17:55	MET	SM19 4500NO2B
Sulfate	1690	100	mg/l	10	01/03/07 18:49	JH	EPA 300/SW846 9056
Sulfide	< 2.0	2.0	mg/l	1	12/12/06	JA	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

## Report of Analysis

Client Sample ID:	GW-MW-16B-120606	Date Sampled:	12/06/06
Lab Sample ID:	J48443-3F	Date Received:	12/07/06
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	21.4	1.0	mg/l	1	12/29/06 01:16	ESJ	EPA415.1/SW8469060M

---

RL = Reporting Limit



## Report of Analysis

Client Sample ID:	GW-TMW-2-112906	Date Sampled:	11/29/06
Lab Sample ID:	J47796-6	Date Received:	12/01/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D120651.D	1	12/06/06	YL	n/a	n/a	VD4809
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0 <i>P</i>	4.6	ug/l	
71-43-2	Benzene	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.14	ug/l	
75-25-2	Bromoform	ND	1.0	0.52	ug/l	
74-83-9	Bromomethane	ND	1.0	0.39	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0 <i>P</i>	1.4	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.38	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.74	ug/l	
75-00-3	Chloroethane	ND	1.0	0.65	ug/l	
67-66-3	Chloroform	ND	1.0	0.18	ug/l	
74-87-3	Chloromethane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.089	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.57	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.49	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.56	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	1.0	0.069	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
108-88-3	Toluene	0.51	1.0	0.41	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.094	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.15	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> GW-TMW-2-112906	<b>Date Sampled:</b> 11/29/06
<b>Lab Sample ID:</b> J47796-6	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B	
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		77-121%
17060-07-0	1,2-Dichloroethane-D4	113%		65-133%
2037-26-5	Toluene-D8	96%		80-117%
460-00-4	4-Bromofluorobenzene	111%		79-124%

ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID: GW-TMW-2-112906

Lab Sample ID: J47796-6

Date Sampled: 11/29/06

Matrix: AQ - Ground Water

Date Received: 12/01/06

Method: SW846 8015

Percent Solids: n/a

Project: GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	II33505.D	1	12/08/06	HSC	n/a	n/a	GII1676
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	8.97	0.10	0.066	ug/l	
74-84-0	Ethane	1.2	0.10	0.056	ug/l	
74-85-1	Ethene	ND	0.10	0.075	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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## Report of Analysis

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<b>Client Sample ID:</b> GW-TMW-2-112906	<b>Date Sampled:</b> 11/29/06
<b>Lab Sample ID:</b> J47796-6	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Sodium	12700	10000	ug/l	1	12/18/06	12/19/06 LH	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA18522

(2) Prep QC Batch: MP37272

RL = Reporting Limit

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## Report of Analysis

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<b>Client Sample ID:</b> GW-TMW-2-112906	<b>Date Sampled:</b> 11/29/06
<b>Lab Sample ID:</b> J47796-6	<b>Date Received:</b> 12/01/06
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY	

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO <sub>3</sub>	586	13	mg/l	1	12/12/06	ST	EPA 310.1
Chloride	19.4	2.0	mg/l	1	12/21/06 02:27	JH	EPA 300/SW846 9056
Nitrogen, Nitrate <sup>a</sup>	<0.11	0.11	mg/l	1	12/21/06 14:56	NR	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	<0.10	0.10	mg/l	1	12/21/06 14:56	NR	EPA 353.2/LACHAT
Nitrogen, Nitrite	<0.010	0.010	mg/l	1	12/01/06 14:45	ST	SM19 4500NO2B
Sulfate	35.0	2.0	mg/l	1	12/21/06 02:27	JH	EPA 300/SW846 9056
Sulfide	<2.0	2.0	mg/l	1	12/06/06	ST	EPA 376.1

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

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## Report of Analysis

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<b>Client Sample ID:</b>	GW-TMW-2-112906	<b>Date Sampled:</b>	11/29/06
<b>Lab Sample ID:</b>	J47796-6F	<b>Date Received:</b>	12/01/06
<b>Matrix:</b>	AQ - Groundwater Filtered	<b>Percent Solids:</b>	n/a
<b>Project:</b>	GE - Parker Hannifin - Old Erie Canal Site, Clyde, NY		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon <sup>a</sup>	12.7	2.0	mg/l	2	12/26/06 20:28	MO	EPA415.1/SW8469060M

(a) Detection limit raised due to dilution required for possible matrix interference.

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RL = Reporting Limit

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