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November 18, 2008

Ms. Patricia Pierre
Central New York Remedial Section
New York Remediation Branch
Emergency and Remedial Response Division
U.S. Environmental Protection Agency, Region II
20th Floor, 290 Broadway
New York, New York 10007

Subject: **Pollution Abatement Services (PAS) Site, Oswego, NY**
Five Year Review for July 2003 through June 2008

Dear Ms. Pierre:

The 2008 Five Year Review Report, which is submitted for the PAS Site (Site) in Oswego, New York, is attached. This Five Year Review Report covers the period July 1, 2003 through June 30, 2008.

The routine elevation monitoring conducted during this reporting period indicates continued hydraulic control of the slurry wall containment system is being maintained through routine operation of the leachate collection system.

This report documents EPA's April 2008 approval to transport PAS leachate to the City of Auburn New York's Wastewater Treatment Facility for treatment and disposal. PAS leachate shipments to the Auburn Wastewater Treatment Facility began in July of 2008. This report also further documents the certification that the requirements of the approved Institutional Control Implementation Plan were satisfied during this reporting period.

If you have any questions, please call me at (865) 691-5052.

Sincerely,
de maximis, inc.

Clay McClarnon

cc: PAS Oswego Steering Committee
Payson Long, NYSDEC, Div. of Hazardous Waste Remediation
Mark Valentine

Attachment

FIVE-YEAR
DATA REVIEW REPORT

POLLUTION ABATEMENT SERVICES
SUPERFUND SITE
Oswego, New York

Prepared by

de maximis, inc.

On Behalf of the

Settling Defendants to the 1997 Consent Decree for
Operation, Maintenance and Long-term Monitoring

November 2008

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EXECUTIVE SUMMARY

In September 1997, the United States Environmental Protection Agency (USEPA) and the Performing Settling Defendants (PSD) signed a Consent Decree for the implementation of the operation, maintenance, and long-term monitoring components of the ground-water remedy described in the 1993 Record of Decision (ROD), as clarified by the 1996 Explanation of Significant Differences (ESD). This report summarizes the progress made toward achieving the performance standards presented in the Scope of Work (SOW) of the Consent Decree. This report also provides an update of the 2003 Data Review Report and includes a description of the activities performed at the Pollution Abatement Services (PAS) Superfund Site in Oswego, New York (Site) over the past five years for the Site pursuant to the Operation and Maintenance and Long-Term Monitoring (OM&M) Plan dated August 1998. This five-year (2003–2008) data review addresses work completed under the Consent Decree, which implements the USEPA remedy provided in their December 1993 ROD, as clarified by USEPA's 1996 ESD. The PAS Site, located on 15 acres within the eastern section of the City of Oswego, New York, has a slurry wall containment system, which was installed by New York State Department of Environmental Conservation (NYSDEC) in 1984, and it includes a bentonite-clay slurry wall; a vegetated cap (consisting of a synthetic liner, clay, and vegetated soils); and a leachate collection system. Studies completed during the Interim Groundwater Removal (IGR) period (1991 to 1998) were documented in the IGR Completion Report (*de maximis*). The Annual Progress Reports routinely submitted by *de maximis* during the OM&M operation under the Consent Decree documented continued remedial progress at the Site. The potential source of contaminant releases continue to be controlled by OM&M activities shown by the maintenance of inward and upward hydraulic gradients in the containment system with some seasonal variation. This observation remains consistent with observations reported in USEPA's December 2003 Five-Year Review Report, which concluded that the leachate removal operations have maintained hydraulic control within the containment system.

The monitoring results presented in this report demonstrate that the OM&M operations have maintained hydraulic control within the containment system, and therefore volatile organic compound (VOC) constituent concentrations in long-term monitoring wells down-gradient of the containment system remain at low levels or generally declined further through natural

attenuation. Significantly, the VOC concentrations in long-term monitoring wells located north of Mitchell Street (M-23, M-24, M-25 and M-26) were below performance standards in 2003 and did not exceed performance standards in any subsequent sampling event through 2007. Therefore, M-24, M-25, M-26 were abandoned in 2007, along with other selected wells approved by USEPA. M-23 continues to be used for groundwater elevation monitoring. Semi-annual groundwater quality monitoring results indicate that VOC-concentrations at down-gradient monitoring wells LR-6, LR-8 and M-21 continue to fluctuate at low parts per billion levels. Monitoring results at LR-6, the long-term monitoring well located closest to the slurry wall, continued to report only 1,1-Dichloroethane above detection limits but at concentrations below performance standards. Monitoring results at LR-8, the long-term monitoring well located closest to the northeastern extent of the slurry wall, remained low, but still exceeded benzene and chlorobenzene performance standards. LR-8 continues to fluctuate at low levels and remained consistent with the long-term trend of declining VOC concentrations at this location. Monitoring results for down-gradient well M-21, which is located south of Mitchell Street and north of the slurry wall containment system, also exceeded the benzene and chlorobenzene performance standards during this period, but concentrations have remained below 10 ug/l. VOC concentrations continue to indicate that the groundwater plume in the vicinity of M-21, which has receded south of Mitchell Street, is still attenuating although fluctuates slightly above the performance standards.

As presented in the 1998 Interim Groundwater Removal (IGR) Completion Report, the IGR program effectively mitigated potential contaminant migration from the containment system. The OM&M program has continued to build on that success over the past five years. The 2003 USEPA Five-Year Review Report stated "...the remedies set forth in the RODs are fully protective of human health and the environment". The OM&M monitoring results obtained since the 2003 Five-Year Review Report show further remedial progress with continued attenuation of VOCs in the bedrock aquifer down-gradient of the containment system. Therefore, ongoing site remedial activities indicate that the Site remedies continue to be protective of human health and the environment.

In addition, this report documents the USEPA's April 2008 approval to transport PAS leachate to the City of Auburn New York's Wastewater Treatment Facility (WWTF) for treatment and disposal. Due to the attenuation of the PAS leachate below Toxicity Characteristic Leaching Procedure (TCLP) levels in 2004, the PSD obtained approval from USEPA and NYSDEC to allow leachate to be disposed of at the City of Auburn Waste Water Treatment Facility in Auburn, New York. The City of Auburn issued a Significant Industrial User Permit in February 2008 for discharge of leachate from the PAS Site into the Auburn WWTF. Transporting leachate from PAS to the Auburn WWTF reduces the transportation distance for disposal and allows the waste to be classified as non-hazardous. PAS leachate shipments to the Auburn WWTF began in the third quarter of 2008.

This report also further documents the certification that the requirements of the approved Institutional Control Implementation Plan were satisfied during this reporting period. The procurement of the required institutional controls was documented in the July 2006 Remedial Action Completion Report that was approved by USEPA in August 2006. Specifically, the PSD have established institutional controls for the Industrial Precision Products property down-gradient of the Site under the Environmental Protection Easement and Declaration of Restrictive Covenants dated February 22, 2006. This property is inspected annually and review of Oswego City record indicates no wells have been installed or requested. It should be noted that all properties in the vicinity of the Site are in the City limits, and residential wells are strictly prohibited under city law.

1.0 INTRODUCTION

1.1 Purpose and Scope

This report presents the data that show the progress made toward achieving the performance standards as presented in the Scope of Work (SOW) of the Consent Decree (98-CV-0112) entered August 10, 1998, (Consent Decree). This report includes a description of the activities performed at the Pollution Abatement Services (PAS) Superfund Site in Oswego, New York (Site) over the past five years for the Site pursuant to the Operation and Maintenance and Long-Term Monitoring (OM&M) Plan dated August 1998. This five-year data review addresses work completed under the Consent Decree, which implements the USEPA remedy provided in their December 1993 Record of Decision (Operable Unit 3), as clarified by USEPA's 1996 Explanation of Significant Differences (ESD). Work conducted at the Site by parties outside the Consent Decree, including PCB monitoring of sediments in the adjacent creeks pursuant to USEPA's 1997 Record of Decision, is not addressed in this five-year data review report.

The remainder of this section presents a description of the Site, including its remedial features, followed by a summary of the historical activities related to the Site.

- Section 2 presents a brief description of the OM&M work team.
- Section 3 presents a description of the OM&M and leachate removal activities, including a summary of the removal and disposal volumes.
- Section 4 presents a description of the data collected over the past five years under the OM&M program.
- Section 5 presents a brief summary of the continued effectiveness of the OM&M program.

- Section 6 presents a description of the institutional controls at property down-gradient of the Site.

- Section 7 presents recommendations for future OM&M activities.

- Section 8 lists the reports and other documents referenced herein.

1.2 Site Description

Site Setting

The PAS Site, located on 15 acres within the eastern city limits of the City of Oswego, New York, is bounded on the south by East Seneca Street, and on the east, north, and west by wetlands formed along the stream channels of White and Wine Creeks (Figures 1 and 2). Just to the north (downstream) of the Site is the confluence of White and Wine Creeks. Wine Creek flows approximately 1,800 feet beyond the confluence (northward) to a channel and into Lake Ontario. Just east of this channel, Wine Creek connects with a wetland adjacent to the residential area known as Smith's Beach. Prior to passing through the PAS Site, White and Wine Creeks are proximate to the East Seneca Street Dump (also referred to and operated as the Oswego County Landfill), and White Creek is proximate to the Niagara Mohawk Fire Training School. The Oswego Castings site is situated upstream of the wetland adjacent to Smith's Beach.

The area between the PAS Site and Lake Ontario (to the north) is mostly undeveloped and currently includes multiple land uses. These uses include a cemetery, a wetland, and commercial and residential areas. The properties immediately down-gradient of the Site include Industrial Precision Products, a metal fabrication facility, which is located just south of Mitchell Street, and the undeveloped Niagara Mohawk property, which is located immediately north of the Site and south of Mitchell Street. There are two properties located further north of the Site that are just north of Mitchell Street: the Melvin Holliday and Bradford Thompson properties. The Holliday property, which is occupied by a small auto shop, was the location of former (now abandoned) long-term monitoring well M-25. An undeveloped section of the Catholic cemetery is located

further northwest and just south of Wine Creek. Further north, located on the shore of Lake Ontario, approximately one-half mile north of the Site, is the residential area, Smith's Beach, consisting of approximately 25 dwellings. All these properties are within the Oswego City limits. A public water supply is available in all areas within the city limits and no residential wells are permitted in the city limits. (Figure 3)

Hydrogeologic Setting

The PAS Site is located in the eastern section of the Lake Ontario physiographic province. The geology consists of glacially derived sediments ranging from till and lacustrine silt and clays to stratified sands and gravels. These sediments overlay the Oswego Sandstone. In general, two aquifer systems exist in the region. Although the bedrock and overburden aquifer systems generally exhibit regional groundwater flow north toward Lake Ontario, local groundwater flow in the vicinity of the Site is northwestward toward the Wine Creek wetlands.

Several stratigraphic units have been defined at the Site. A surficial fill layer of variable depth and composition covers most of the Site and consists primarily of demolition debris brought onto the Site before PAS was in operation. This fill layer is underlain by a glacial till that varies in thickness from 15 feet to approximately 35 feet at the Site. The exception to this is in an area outside the slurry wall and in the vicinity of White Creek, where fill is underlain by stratified sediments. A continuous, dense till layer is purported to overly the bedrock across the Site and is reportedly thickest (about 35 feet) in the southwestern portion of the Site. Bedrock is located approximately 50 feet below ground surface near the center of the Site (Figure 4, Golder Associates). Two aquifer systems exist on-site, an unconfined overburden aquifer and a bedrock aquifer. The local ground-water flow direction in the vicinity of the Site is toward the northwest, in the direction of the Wine Creek wetlands located just northwest of the Site.

As discussed below, a slurry wall containment system was installed at the Site by the New York Department of Environmental Conservation (NYSDEC) to control ground-water flow through the presence of the low-permeability, bentonite-clay slurry wall that extends from ground surface to the underlying lodgement till. Periodic leachate removal from the soils within the slurry wall is conducted to maintain to the degree practicable inward gradients across the slurry wall, thus reducing and minimizing down-gradient ground-water migration.

While both White and Wine Creeks flow adjacent to the Site, these creeks are being monitored by parties who are conducting this work under a separate USEPA order as indicated previously. White Creek flows along the eastern boundary, while Wine Creek flows along the western and northern boundaries. The confluence of the creeks is located to the northwest of the Site.

Slurry Wall Containment System

The slurry wall containment system was installed at the Site by NYSDEC in 1984. This slurry wall containment system includes a bentonite-clay slurry wall keyed into the underlying lodgement till; a cap, consisting of a synthetic liner, clay, and vegetated soils; and a leachate collection system. The leachate collection system, which is used for collection and removal of leachate that accumulates within the containment system, consists of collection drains (gravel-filled trenches), four collection wells, a network of polyvinyl chloride (PVC) force mains, submersible pumps, and controls, and a leachate collection tank.

Leachate is collected within the containment system in two trench systems: a down-gradient perimeter trench located inside the slurry wall at the northern boundary of the Site, and a cross-trench located near the center of the Site. Three 14-inch-diameter leachate collection wells (LCW-1, LCW-2, and LCW-3) equipped with submersible pumps and controls are used to remove leachate collected in the down-gradient perimeter trench. A fourth pumping well (LCW-4) is used to remove leachate collected in the cross-trench at the center of the containment area. Accumulated leachate is pumped into 2-inch-diameter PVC force mains that discharge into the concrete leachate collection tank. The maximum capacity of the tank is 44,000 gallons; however,

the operating capacity of the tank is limited to 13,000 gallons, as only one section of the partitioned tank is utilized during Site operations. In addition, leachate levels in the tank are purposefully maintained below the elevation of the high-density polyethylene (HDPE) liner, which is fused to the exterior surface of the tank. The sediments that had accumulated in the bottom of the leachate collection tank were cleaned out and removed in 2008.

1. 3 Site History

Initial Remedial Activities

The PAS facility, a high-temperature, liquid-chemical waste incineration facility, operated from 1970 through 1977. Beginning in 1973, a series of incidents, including liquid waste spills and the overflow of liquid wastes from lagoons into White Creek, led to the involvement of the United USEPA and NYSDEC at the Site. Response actions taken from 1973 to 1982 by the USEPA, NYSDEC, and Coast Guard resulted in an oil spill cleanup, the removal of the incineration facilities, drummed wastes, bulk liquid wastes, and contaminated soils, and the closure of two on-site lagoons. According to the 1993 Record of Decision for the PAS Site, these removal actions constitute the first operable unit (OU1).

Initial RI/FS Activities

From 1982 to 1984, the NYSDEC performed a *Site Investigation and Remedial Alternatives Evaluation* of the Site which was the initial Remedial Investigation/Feasibility Study (RI/FS) conducted at the Site. Based on the results of this study, the USEPA signed a ROD in 1984 (OU2), which specified the following remedial actions: 1) limited excavation and off-site disposal of contaminated materials, 2) installation of a perimeter slurry wall, 3) Site grading and capping in accordance with Resource Conservation and Recovery Act (RCRA) requirements, 4) installation of a leachate collection and treatment system, and ground-water monitoring. The NYSDEC implemented the remedial actions identified in the ROD, with the exception of the on-site treatment system. Rather than installing an on-site treatment system, the leachate was collected by the NYSDEC from 1986 through 1991 and transported off-site to an approved RCRA treatment, storage, and disposal (TSD) facility. In addition, the NYSDEC conducted

routine maintenance at the Site, which included mowing the vegetated cap, as well as maintaining the leachate collection system, perimeter fence and access road.

From 1984 to 1986, the NYSDEC performed an environmental assessment of the area in the vicinity of the Site that included White and Wine Creeks. Based on the results of the environmental assessment, the NYSDEC determined that no remediation of the creeks was required.

Supplemental RI/FS Activities

The results of soil gas and ground-water sampling of existing monitoring wells at the Site, conducted between 1987 and 1990, indicated the presence of VOC contamination in the groundwater outside the slurry wall containment system.

In September 1990, an Administrative Order on Consent (AOC) was entered into between the USEPA and a group of potentially responsible parties (PRPs) to conduct a supplemental RI/FS to evaluate the integrity of the existing containment system at the Site, to determine the nature, extent, source, risk, and to identify and evaluate remedial alternatives associated with contamination outside the containment system.

Based upon the results of the supplemental RI/FS, the USEPA signed a ROD on December 29, 1993, (OU3). The 1993 ROD incorporated all of the existing components of the 1984 ROD, as well as several additional components. The selected remedy under the 1993 ROD included: 1) enhancing the present source control system by optimizing the leachate extraction rate and other operating parameters in order to achieve, to the degree practicable, inward horizontal gradients in the overburden and upward vertical gradients from the bedrock toward the containment system; 2) connecting down-gradient residents in the Smith's Beach area, who were using residential wells, to the public water supply; and 3) implementing institutional controls on ground-water usage through deed restrictions that covered the Site, as well as down-gradient locations, including the Smith's Beach area.

The 1993 ROD also called for several investigations related to the enhancement of the source control system. In addition, as there was some uncertainty related to the source of the polychlorinated biphenyl (PCB) contamination detected in the sediments in the adjacent wetlands and White and Wine Creek[1]; the ROD called for a study to determine the sources of PCB and pesticide contamination.

IGR Activities

In October 1991, the USEPA and a group of PRPs (the Respondents) entered into the 1991 IGR Order for implementation of interim groundwater removal activities at the Site. The 1991 IGR Order required removal of leachate from within the containment system on a periodic basis. While it also required routine maintenance of the leachate collection system, the NYSDEC retained responsibility for all other site maintenance activities, including maintaining the vegetated cap. As noted previously, the completion report for the 1991 IGR Order was submitted to, and approved by, USEPA in September 1994. A total of 814,325 gallons of leachate were removed during the 1991 IGR Order.

These IGR activities were continued without interruption by a second administrative order effective in October 1994, which required routine IGR removals and, among other things, connection of residents using residential wells in the Smith's Beach area to the City of Oswego's public water supply. The water supply connections were subsequently completed in July 1995 as documented in a report dated August 23, 1995. A total of 1,090,106 gallons of leachate were removed during the 1994 IGR Order.

[1]PCBs were not detected in the surface water located adjacent to the Site and pesticides were not detected in the sediments located adjacent to the Site.

Pre-Remedial Design Studies

In July 1994, an AOC was entered into by the USEPA and a group of PRPs to conduct a supplemental pre-remedial design study (SPRDS) (which was completed in 1996) related to the investigations called for in the 1993 ROD. The SPRDS Phase I Report concluded that the VOC-concentrations in the groundwater plume located down-gradient from the containment system were declining and that the direction of the VOC-plume was northwest toward the Wine Creek wetlands and not northerly toward Smith's Beach as previously believed. In addition, the SPRDS determined that the IGR pumping was maintaining hydraulic control within the containment system, and furthermore, any bedrock groundwater pumping down gradient from the containment system would adversely affect the hydraulic control within the containment system. (Roux 1995)

In September 1996, an Explanation of Significant Differences (ESD) was issued by the USEPA based on the findings reported in the SPRDS. The ESD explained the results of the additional (SPRDS) investigations called for in the 1993 ROD and presented the following modifications to the 1993 ROD: 1) identified that any bedrock pumping conducted down-gradient from the containment system would adversely affect the containment system, as well as adjacent streams, and wetlands; 2) modified the contingent remedy for the treatment of leachate to provide for continued off-site treatment and disposal in lieu of discharge to the City of Oswego Waste Water Treatment Plant; and 3) identified that the Site was not the source of pesticides in surface water or a present source of PCBs in the creek or wetland sediments, and other upstream sources of PCBs exist.

Based on the SPRDS results, a Focused Feasibility Study (FFS) was completed in June 1996 to identify and evaluate remedial alternatives for the PCB-impacted sediments in the vicinity of the Site. The FFS determined that PCB-impacted sediments do not pose a human health risk and only marginal potential risks to conservatively selected animals are present.

In October 1997, the USEPA signed a ROD for the PCB-impacted sediments in the vicinity of the Site and subsequently negotiated an order for parties, other than the group of parties who performed the SPRDS and IGR activities as described herein. The 1997 ROD identified no further action with long-term monitoring as the selected remedy. A December 18, 1997 letter was submitted to, and approved by USEPA, documenting the completion of all activities required by the SPRDS Order.

IGR Data Review and Completion Reports

On behalf of the Respondents to the 1994 IGR Order, two data review reports were prepared summarizing site data collected during the interim groundwater removal and long-term monitoring programs. The first IGR/ Long Term Monitoring Program (LTMP) Data Review Report summarized hydrogeologic, groundwater and leachate data collected at the Site through 1995 and, it demonstrated the continued success of the IGR program (Roux 1996). Specifically, this report indicated that groundwater VOC concentrations down-gradient from the containment system continued to decline. In addition, the report indicated that inward horizontal gradients occurred at the slurry wall perimeter, while upward vertical gradients occurred beneath most of the containment system, especially in the central portion near LCW-4, cited as the source area for VOCs detected in the bedrock aquifer down-gradient of the PAS Site (Golder 1993a). The second IGR/LTMP Data Review Report, which summarized IGR data collected during the years 1996 and 1997, confirmed the continuing success of the IGR program (Roux 1998).

The IGR Completion Report was submitted by *de maximis* on October 29, 1998. As summarized in the IGR Completion Report, the groundwater quality monitoring results indicated that VOC concentrations in the M-21 plume remain at concentrations similar to the low levels reported in previous reports. Leachate quality data collected at LCW-2 and LCW-4 indicated declining VOC concentration trends. Hydraulic control within the containment system was first achieved in 1993 through steady dewatering of overburden groundwater levels inside the containment system. Routine groundwater elevation monitoring during the IGR indicated that the overburden groundwater within the containment system had been significantly dewatered since the IGR began in early 1992, which allowed inward horizontal gradients to be achieved around the

containment system to the extent practicable. Similarly, vertical hydraulic gradients beneath the containment system progressed from completely downward in 1991 to significantly upward during the IGR, thus providing hydraulic control beneath the containment system. USEPA approved the IGR Completion Report on December 10, 1998.

Consent Decree for Operation, Maintenance and Long-Term Monitoring Activities

In September 1997, the USEPA and the PSD signed a Consent Decree for the implementation of the operation, maintenance, and long-term monitoring components of the ground-water remedy described in the 1993 ROD, as clarified by the 1996 ESD. On September 15, 1998, the PSD were notified by USEPA that the Consent Decree was entered on August 10, 1998. This Consent Decree provided for continuation of the IGR program through October 1998. USEPA approved the Consent Decree-required Operation, Maintenance and Long-term Monitoring (OMM) Plan prepared by the BBL Environmental Services, on behalf of the PSD, in August 1998. USEPA concurred that site activities described in the approved OMM Plan would begin in November 1998 immediately following the October 1998 completion of the IGR program.

The OM&M Plan provides for continued removal of leachate from within the containment system on a periodic basis to maintain hydraulic control that had been established around the containment system during the IGR to further reduce and minimize down-gradient migration of contamination. These objectives were to be met by continued operation of the containment system (including cover, slurry wall, and leachate and ground-water collection system off-site treatment and disposal of the collected leachate and ground water, establishment of institutional controls, and long-term monitoring). The OM&M program has resulted in continued success in the control of the Site and improvement in the groundwater quality down gradient of the Site as further discussed herein.

1.4 USEPA Five-Year Review of Remedy in 1998 and 2003

In June 1998, USEPA issued their first Five-Year Review Report for the Site, which stated that... "the remedies set forth in the RODs are fully protective of human health and the environment". USEPA's second five year review issued in December 2003 indicated continued success of the

PAS containment system and continued protection of human health and the environment. This report is the third USEPA Five-Year Review Report and is due December 2008.

2.0 OM&M Project Team

This section presents the members of the Project Team, including the project coordinator, prime contractors and major subcontractors.

2.1 Project Coordinator - *de maximis, inc.*, Knoxville, Tennessee

de maximis, inc. was selected as Project Coordinator for the Respondents to the 1991 and 1994 IGR Orders, the 1994 SPRDS Order, as well as the 1997 Consent Decree. All OM&M activities conducted at the Site are managed by *de maximis, inc*, including coordination of all work performed by the prime contractors and subcontractors listed below, submittal of quarterly progress reports to the USEPA documenting operations, maintenance and long-term monitoring work completed at the Site, as well as other work required by the Consent Decree.

2.2 Prime Contractor- O'Brien & Gere, Syracuse, New York

The general responsibilities of the prime contractor include subcontracting leachate collection, removal, transportation, and disposal operations, performing collection system monitoring and maintenance, and preparing reporting documentation. In addition to its operational responsibilities, the prime contractor is responsible for all site maintenance and monitoring activities, including routine operational monitoring of the slurry wall containment system and long-term monitoring of groundwater.

O'Brien & Gere Operations, LLC (OBG) is the prime contractor for all OM&M work activities performed at the Site. From 2003 to 2005, leachate was transported by Buffalo Fuels for treatment and disposal at CECOS in Niagara Falls, New York. From 2005 to June 2008, leachate was transported by Clean Harbors to its facilities in Bristol, Connecticut and Baltimore, Maryland. In 2008, USEPA and NYSDEC approved the Auburn Waste Water Treatment facility for disposal of the PAS leachate.

In July 2008, Op Tech a licensed hazardous waste transporter began transporting leachate from the Site to the Auburn WWTF. Life Sciences Laboratories conducts periodic analysis of leachate and groundwater samples collected at the Site.

3.0 DESCRIPTION OF OM&M ACTIVITIES

This section presents a summary of OM&M work activities conducted at the Site under the Consent Decree, including a brief overview of the OM&M field activities, as well as a summary of leachate quantities removed for off-site treatment and disposal.

3.1 OM&M Field Activities

In general, OM&M field activities include routine operational and long-term monitoring, site maintenance, as well as leachate removal, treatment and disposal. The following provides an overview of the OM&M operations.

3.1.1 Monitoring Activities

Both operational and long-term monitoring are conducted at the Site. The operational monitoring activities include ground-water and surface water elevation measurements at selected locations in the vicinity of the containment system, and leachate quality monitoring from specified locations within the containment system. Long-term monitoring consists primarily of the semi-annual sampling of groundwater wells located both on and down-gradient of the Site. These activities are performed at various frequencies as discussed below and as shown in Table 1. The purpose of the periodic monitoring was to evaluate the hydrogeologic conditions in the vicinity of the containment system to determine the effectiveness of leachate removal activities, and to determine groundwater conditions at long-term monitoring wells down-gradient of the containment system. Stream sediment and surface water elevation monitoring was also conducted at the Site, but was discontinued in 2000.

Operational Monitoring Activities

Monthly Groundwater Elevation Monitoring

Ground-water elevation measurements are performed monthly in conjunction with the leachate removal event (1st week of the month). During each month the twelve SWW-wells and the four LCW wells are measured (Figure 2).

Quarterly Groundwater Elevation Monitoring

In addition to the monthly elevation monitoring described above, quarterly groundwater elevation monitoring is conducted at the Site for wells LR-2, -3, -6, and -8, and the six M-series wells (M-21, -22, -23, -24, -25 and –26). In November 2006, based on the results presented in the 2003 five year review and discussions with EPA, the wells OD-4, LS-2, LD-2, LS-9, M-24, M-25, and M-26 were approved for abandonment and abandonment was completed in January 2007. Also at the request of USEPA, the following wells were added to the quarterly level monitoring - OS-1, OS-3, OI-1, OI-3, LD-3, LD-4, LD-5, LD-6, LD-8 and LS-6 to evaluate their potential for future abandonment.

Leachate Quality Monitoring

Leachate samples are collected from LCW-1 and LCW-2 (Figure 2) on a semi-annual basis in the spring and fall for operational monitoring purposes. These samples are analyzed for the analytes presented in Table 2. These samples are generally collected to verify the constituent concentrations are consistent with the waste characterization information used for disposal of leachate removed from the Site. These leachate monitoring activities are typically performed in conjunction with each semi-annual monitoring event. For 2007 and 2008 additional leachate quality sampling was performed in conjunction with leachate characterization for disposal approval at Clean Harbors in Baltimore in 2007 and disposal approval at the Auburn Waste Water Treatment Facility in Auburn, New York in early 2008, as well as potential future disposal at the City of Oswego's Eastside Wastewater Treatment Facility. The sample parameters

included VOC, SVOC, and metals and also included PCBs, and Pesticides. Also, in March 2008, the sediments in the bottom of the leachate collection tank were tested for disposal purposes. The data for the leachate is presented in Table 3a and 3b. The tank sediment analysis was completed in April 2008 and the data is presented in Table 4.

Long-term Monitoring Activities

Groundwater Quality Monitoring

Groundwater is sampled from the five groundwater bedrock monitoring, or Long-term Monitoring (LTM) wells specified in the Consent Decree on a semi-annual basis (typically sampled in May and November). These LTM wells included LR-6, LR-8, M-21, M-25, and M-26 (Figure 2). The well construction logs are presented in Appendix A. Groundwater samples collected from the LTM wells were analyzed for selected VOCs (i.e., including VOCs designated as LTM performance standards). In conjunction with the abandonment of unnecessary bedrock wells, EPA requested the non-routine sampling of three additional wells M-22, M23, and OD-3 for performance standards. These wells were sampled in April and May of 2006. Subsequent to evaluation of the sampling results, EPA approved the abandonment of wells M-24, M-25, and M-26, and they were abandoned in January 2007

3.1.2 Leachate Removal and Off-Site Treatment and Disposal

Leachate collection, removal, and disposal protocols provide that these activities be performed during the first (primary event) and the third weeks (contingency event) of each month, in conjunction with operational monitoring activities described above. The protocol described below is utilized for removal activities under the OM&M Plan.

Leachate Removal Procedure

During the first week of each month, pre-pumping operational groundwater elevation measurements are taken from all LCW- and SWW-Series wells.

Approximately two days after the primary removal event pre-pumping groundwater elevation measurements the leachate collection system is operated to remove, transport, and dispose of leachate. Specifically, during the first week of each month, up to 15,000 gallons of leachate, or the volume that can be efficiently removed during a one-day pumping event, is pumped to the leachate storage tank. A portable pump or vacuum truck is utilized to remove and transport the leachate for treatment and disposal.

In November 1999, the leachate removal protocol was modified to evaluate the removal of leachate from LCW-4 using estimated vertical hydraulic gradients in the vicinity of LCW-4. All other leachate removal procedures remained the same. As a basis to estimate vertical gradients, groundwater elevation levels are measured are quarterly in the bedrock and overburden wells at the Site. .

Beginning July 31, 2008 the PAS leachate was collected and transported to the City of Auburn Waste Water Treatment Facility (WWTF) in Auburn, New York, as approved by EPA and NYSDEC. The Auburn Significant Industrial User Permit for discharge of PAS leachate into their treatment facility regulates, among other things, iron concentrations in the leachate at concentrations at approximately 10 ppm. Therefore, OBG implemented a procedure so that leachate iron concentrations of leachate transported to the Auburn WWTF comply with Auburn WWTF pre-treatment discharge requirements. OBG is continuing periodic testing of the leachate iron concentration, and if necessary, they have included pH adjustment and pumping the leachate through bag filters prior to leachate transport to Auburn's WWTF.

As documented in our July 2008 Annual Progress Report, we recently cleaned out the leachate collection tank to remove sediments that had accumulated in the bottom of the tank. In the

future, we will periodically check for sediment accumulation in the tank, and if necessary, remove any sufficient build-up and dispose of this material in conjunction with our routine leachate removal activities as we did during our previous tank clean out. We anticipate any subsequent tank clean out would be needed very infrequently, as the tank clean out performed earlier this year was the first time sediment removal from the tank was performed since the PSD first involvement in the Site in the early nineties. We are not aware if NYSDEC ever cleaned the tank prior to our involvement.

3.2 Leachate Removal and Disposal Summary

Over the past five years, removal rates have remained stable at approximately 10,000 gallons per month. Since stable leachate and groundwater levels have been achieved within the containment system, the contingency removal events were eliminated in 2003. Leachate extracted from 1991 to 2008 has been transported to treatment and disposal facilities approved by USEPA. Table 5 presents the quantities of leachate removed since 1992. As shown in the table, as of June 30, 2008 a total of 3,179,956 gallons of leachate were removed from the containment system since PRPs began leachate removal activities in 1992. Leachate removed from the Site was transported to DuPont's Deepwater New Jersey treatment and disposal facility until 1996. Leachate removed from the Site from 1996 to 2004 was transported to CECOS in Niagara Falls, New York. During the period from 2005 to 2007, leachate was transported to Clean Harbors' facilities in Bristol, Connecticut and later to their Baltimore, Maryland facility for treatment and disposal. Since July 2008, leachate has been transported to the City of Auburn's WWTF.

4.0 OM&M MONITORING RESULTS

This section presents the results of operational and long-term monitoring conducted under the Consent Decree.

4.1 Operational Monitoring

Operational monitoring conducted during the OM&M activities indicates that hydraulic control within the containment system has been maintained, which has mitigated further migration of VOC constituents from the containment system and allowed bedrock down-gradient VOC concentrations to decline as discussed below. The operational monitoring shows that overburden groundwater and leachate levels within the containment system remain stable and therefore, horizontal and vertical gradients in the vicinity of the containment system have also remain stable at levels to optimize, to the extent practicable, hydraulic containment. Likewise, the overburden groundwater is generally a stable system with the seasonal variations in regional groundwater levels maintaining, to the extent practicable, inward horizontal gradients. The (2006 to 2008) hydrographs for slurry wall well pairs, SWW-1/2 (up-gradient well pair), SWW-5/6 (down-gradient well pair) and SWW-11/12 (down-gradient well pair), show seasonal variations with some outward gradients due to fluctuations in regional groundwater levels outside the containment system with generally stable groundwater elevations inside the containment system (Figure 5). Water levels inside the containment system have generally remained stable within seasonal water level variations during the entire OM&M period, particularly during late summer and fall when regional bedrock groundwater levels outside the containment system decline. However, over the past five years, there has been a relatively small increase in groundwater elevations measured inside the down-gradient extent of the containment system.

The data provided by the additional wells OS-1, OS-3, OI-1, OI-3, LD-3, LD-4, LD-5, LD-6, LD-8 and LS-6 collected since 2007 as requested by EPA , indicates the same response of the overburden groundwater as observed in the existing overburden well network (Figure 6). Regardless of the groundwater levels outside the containment system, leachate removal volumes have remained generally consistent.

The monthly and quarterly pre-pumping elevation data indicate that the removal rates maintain groundwater levels within the containment system that are relatively stable and optimize upward gradients in the central section of the Site. This continues to prevent off site migration into the bedrock downgradient of the Site, and VOC concentrations remain in the low ppb range (Figure 7). Notably, the vertical gradient pattern in the central area of the containment system near LCW4 is generally consistent with the vertical gradient pattern in 2002. The monthly pumping of leachate in the containment system has produced an upward gradient of 1.5 feet per feet in the area around LCW4 in the winter of 2008 versus 2.0 feet per feet upward gradient in the winter of 2002. The vertical gradient for the spring of 2008 remained at 0.5 feet per feet as compared to the spring of 2002. The summer of 2008 indicated a decreased downward gradient from the summer of 2002, while the fall of 2008 indicated a 1 foot per foot increase in downward gradient. As identified the seasonal variations in groundwater elevations outside the containment system in the summer and fall reverse the upward gradient pattern observed in the winter and spring because groundwater elevation inside the containment system remains stable while regional elevations seasonally declined.

The horizontal gradients continue to follow the patterns identified in the IGR. The gradients are inward over most of the Site except for the summer months when seasonal groundwater elevations drop outside the Site creating outward gradients at some well pairs. The only well pairs that sometimes do not follow this trend are upgradient well pair SWW1 (outside) and SWW2 (inside) where the gradient is always inward and SWW12 (outside) and SWW11 (inside) where the gradient is predominantly outward due to White and Wine Creek surface water elevations. However, the extensive White Creek wetlands in this area mitigate any potential impact. No detection of Site constituents has been observed in White Creek. The only other

anomaly is the occasional inward overtopping at the well pair SWW 7 (inside) and SWW8 (outside) during the winter months. This is an inward flow caused by seasonal fluctuations in Wine Creek and the proximity of the Wine Creek to the Site. As discussed above, the evaluation of the use of data from the additional wells indicates that seasonal variation in the creeks is the most significant factor in the overburden groundwater outside the containment system. Inclusion of the additional wells does not significantly modify the observed gradients in vicinity of the Site.

The concentrations of VOCs in leachate (LCW) wells (8a-8b, Table 7a-7b) have remained stable over the past five year period. The OM&M operational monitoring data confirms that the OM&M operations over the past five years have maintained the hydraulic control within the containment system. The data for the additional leachate sampling performed for disposal characterization are consistent with the semi annual sampling data.

4.2 Long-term Groundwater Monitoring

In the years since PSD began OM&M monitoring activities in November 1998, continued progress has been made toward achieving the performance standards for the Site. In accordance with the OM&M Plan, groundwater quality monitoring was performed at the LTM wells: LR6, LR8, and M-21, M-25 and M-26. This was modified in January 2007 eliminating the wells M-25 and M-26. All of the LTM wells are screened in the upper zone of the bedrock aquifer down-gradient of the containment system. The historical data for these wells (designated LR-series wells and M-series wells) is presented in Figure 7.

A summary of the groundwater monitoring data collected at each of the LTM wells discussed below provides a comparison of the LTM monitoring results to performance standards for the LTM wells provided in the Consent Decree (benzene - 0.7 ug/l, toluene - 5 ug/l, ethylbenzene – 5 ug/l, chlorobenzene – 5 ug/l, 1,1- dichloroethane – 5 ug/l). For the purposes of this discussion, LTM monitoring results refers to those monitoring results collected under the Consent Decree (since November 1998) for wells that have not been abandoned.

LTM Wells South of Mitchell Street

The following three LTM wells down-gradient of the containment system are located south of Mitchell Street: LR-6, LR-8 and M-21 as shown on Figure 2.

LTM Well LR-6

The historical monitoring results indicate that LTM well LR-6, which was installed by NYSDEC immediately adjacent to the southwestern corner of the containment system in 1989, has been only marginally impacted by VOCs. The LTM data indicate that 1,1-dichloroethane has been the only constituent detected at above the performance standards at LR-6 since LTM monitoring began. Residual concentrations of 1,1- dichloroethane have continued to attenuate during the last five years to near detection levels and have remained below performance standards during the LTM monitoring period. (Figure 9 Table 8)

LTM Well LR-8

LTM well LR-8, which was also installed by NYSDEC in 1989, is located on the Site, down-gradient of the containment system and just north of White Creek. Historical monitoring results at LR-8 indicated elevated concentrations of benzene, ethylbenzene, xylenes and chlorobenzene. LTM monitoring data indicates that only benzene and chlorobenzene remain above performance standards currently, as historical LTM concentrations of ethylbenzene and xylene have attenuated below performance standards. The relatively low benzene concentrations have attenuated somewhat during the LTM monitoring period, while chlorobenzene concentrations also remain low and just slightly above performance standards. Attenuation of VOC concentrations at LR-8 have generally mirrored the attenuation pattern seen at M-21, as discussed below, with somewhat higher concentrations for benzene and chlorobenzene (Figure 10, Table 9).

LTM Well M-21

LTM well M-21 was installed in 1991 during the SRI/FS and is located down-gradient of LR-8 on the Industrial Precision Products property and near the northeast corner of the Site. The historical concentrations at M-21 indicate similar constituents as those detected at LR-8, especially benzene and chlorobenzene. Other VOC constituents have been historically at or below detection limits since the mid-nineties (Figure 11, Table 10). During the LTM monitoring period, benzene and chlorobenzene have exceeded performance standards, although chlorobenzene concentrations have declined below performance standards since November 2002. Benzene concentrations have appeared to diminish slightly over the LTM monitoring period with remaining benzene concentrations only slightly above the performance standard.

Additional Groundwater Monitoring at Bedrock Wells M-22, M-23 and OD-3

In addition to the LTM bedrock wells, EPA requested the sampling of three additional bedrock wells for evaluation related to the abandonment of additional proposed bedrock wells. The wells including M-22, M-23 and OD-3 were sampled in April and May of 2006. The wells predominately were at detection levels for Site constituents. None of the samples had constituents near the groundwater quality performance levels (Table 11).

4.3 Well Abandonment Activities

OBG and their subcontractor Parratt Wolf completed well abandonment closures in January 2007. Monitoring wells abandoned, as approved by EPA on November 13, 2006, included LD-2, LS-2, LS-9, M-24, M-25, M-26, OD-4, PZ-1 and PZ-2. These well abandonment activities were documented in the July 2007 Annual Report. A complete list for the status of wells associated with the PAS Site is provided in Table 12.

4.4 Summary

The three LTM wells south of Mitchell Street, LR-6, LR-8 and M-21, have relatively low VOC concentrations and continue to attenuate. LR-6 has not exceeded any performance standards since LTM monitoring began in November of 1998. This well continues to have some residual concentrations of 1,1- dichloroethane, but they are very near the detection limits. The other LTM wells, LR-8 and M-21, have low VOC concentrations, but the concentrations for benzene and chlorobenzene continue to fluctuate slightly above the performance standards.

5.0 REMEDY EFFECTIVENESS SUMMARY

This section summarizes information discussed above and illustrates the continued effectiveness of the remedy as documented both by EPA's 1998 and 2003 Five-Year Review Reports, as well as the monitoring results obtained during the period work was performed under the Consent Decree. These results further describe continued remedial progress at the Site that has been well documented in various studies and reports referenced herein. Studies completed during the IGR period (1991 to 1998) were documented in the IGR Completion Report (*de maximis*). Since EPA's 2003 Five-Year Review Report, the Annual Progress Reports for the PAS Site submitted by *de maximis* (July 2004 through July 2008) during the OM&M operation under the Consent Decree show continued remedial progress at the Site as described herein. By maintaining, to the extent practicable, inward and upward hydraulic gradients, especially upward gradients beneath the central portion of the containment system near LCW-4, releases continued to be controlled.

The long-term monitoring groundwater quality data presented in this report demonstrates that the OM&M operations have effectively maintained hydraulic control within the containment system, as VOC constituent concentrations continue to fluctuate at or near the groundwater performance standards in the long-term monitoring wells down-gradient of the containment system as shown by bedrock monitoring wells LR-6, LR-8 and M-21.

As presented in the 2008 Annual Progress Report, the Site remedies mitigated potential contaminant migration from the containment system. The OM&M program has continued that success over the past five years. Specifically, the data indicate that the Site remedies continue to be protective of human health and the environment.

6.0 INSTITUTIONAL CONTROLS

As required by the Consent Decree, the PSD have established institutional controls for the Industrial Precision Products property down-gradient of the Site under the Environmental Protection Easement and Declaration of Restrictive Covenants dated February 22, 2006. This property is inspected annually and review of Oswego City record indicates no wells have been installed or requested. This Covenant includes the Industrial Precision Products property (tax # 110.84-01-02 – see Figure 3) the property was inspected and the records at the City of Oswego reviewed the past two years. No requests for well installation were observed. As noted above, this property is in the City limits where residential wells are strictly prohibited.

On July 10, 2006, the Remedial Action Completion Report which was submitted to, and subsequently approved by, EPA included a certification that the institutional controls required by the Consent Decree have been obtained, thereby the completing the Remedial Action, as defined in the Consent Decree.

7.0 RECOMMENDATIONS

The success of the OM&M activities at maintaining hydraulic control are well documented; therefore, continued operation of the system using the leachate removal protocol is generally appropriate. However, some of the current operational and long-term monitoring activities performed can be streamlined based on the LTM results documented herein, as well as constructive experience gained during the lengthy history of operational monitoring at the Site. Therefore, the following recommendations are provided to improve the efficiency of the OM&M operation and eliminate unnecessary monitoring activities to better focus future OM&M activities as needed to sustain hydraulic control within the containment system and to ensure continued protection of human health and the environment.

Specifically, we recommend the following proposed modifications to the current OM&M program.

Eliminate the additional groundwater elevation monitoring requested by EPA at overburden wells OS-1, OS-3, OI-1, OI-3, LD-3, LD-4, LD-5, LD-6, LD-8 and LS-6 and bedrock wells*LR-2 and, M-23.*

The additional groundwater elevation monitoring conducted quarterly at overburden wells, OS-1, OS-3, OI-1, OI-3, LD-3, LD-4, LD-5, LD-6, LD-8 and bedrock well LR-2, should be eliminated and these wells should be properly abandoned. The additional data collected for these wells are consistent with the historical patterns for the Site, and the remaining wells provide the monitoring well network necessary to document hydraulic control of the containment system. In accordance with the Consent Decree these additional wells may be eliminated. The down-gradient well (M-23 located south of Mitchell St) has also remained below performance standards for at least two monitoring events. However, we are not requesting the abandonment of this well at this time.

Incorporate current leachate removal standard operating procedures (SOPs) into the OM&M plan.

The current standard operating procedures (SOPs) for leachate handling are consistent with leachate removal operations performed at the Site for disposal at the City of Auburn WWTF. Adding these SOPs to the existing OM&M plan update the OM&M with current operating procedures performed at the Site.

Lastly, we will continue to transport leachate to the Auburn WWTF. However, we will continue to work cooperatively with the City of Oswego to evaluate the feasibility of discharging leachate into the City of Oswego Eastside WWTF.

8.0 REFERENCES

BBL Environmental Services, Operation, Maintenance and Long-term Monitoring Plan, Pollution Abatement Services Site, Oswego, New York, August 1998

de maximis, inc., Completion Report for 1991 IGR Order Pollution Abatement Services Site, Oswego, New York, 1994.

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de maximis, inc, PAS Annual Progress Reports Pollution Abatement Services Site, Oswego, New York (July 2004, July 2005, July 2006, July 2007 and July 2008).

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de maximis, inc. Remedial Action Completion Report, Pollution Abatement Services Site, Oswego, New York (July 2006)

Golder Associates, Inc., Supplemental Remedial Investigation Report, Pollution Abatement Services Site, Oswego, New York, 1993.

Roux Associates, Inc., 1996/1997 IGR and LTMP Data Review Pollution Abatement Services Site, Oswego, New York, 1998

Roux Associates, Inc., 1995 IGR and LTMP Data Review Pollution Abatement Services Site, Oswego, New York, 1996.

Roux Associates, Inc. Phase I Supplemental Pre-Remedial Design Study Report
Pollution Abatement Services Site, Oswego, New York, 1995.

U.S. Environmental Protection Agency, Record of Decision, 1993.

U.S. Environmental Protection Agency, Five-Year Review Report,
Pollution Abatement Services Site, Oswego, New York, 1998.

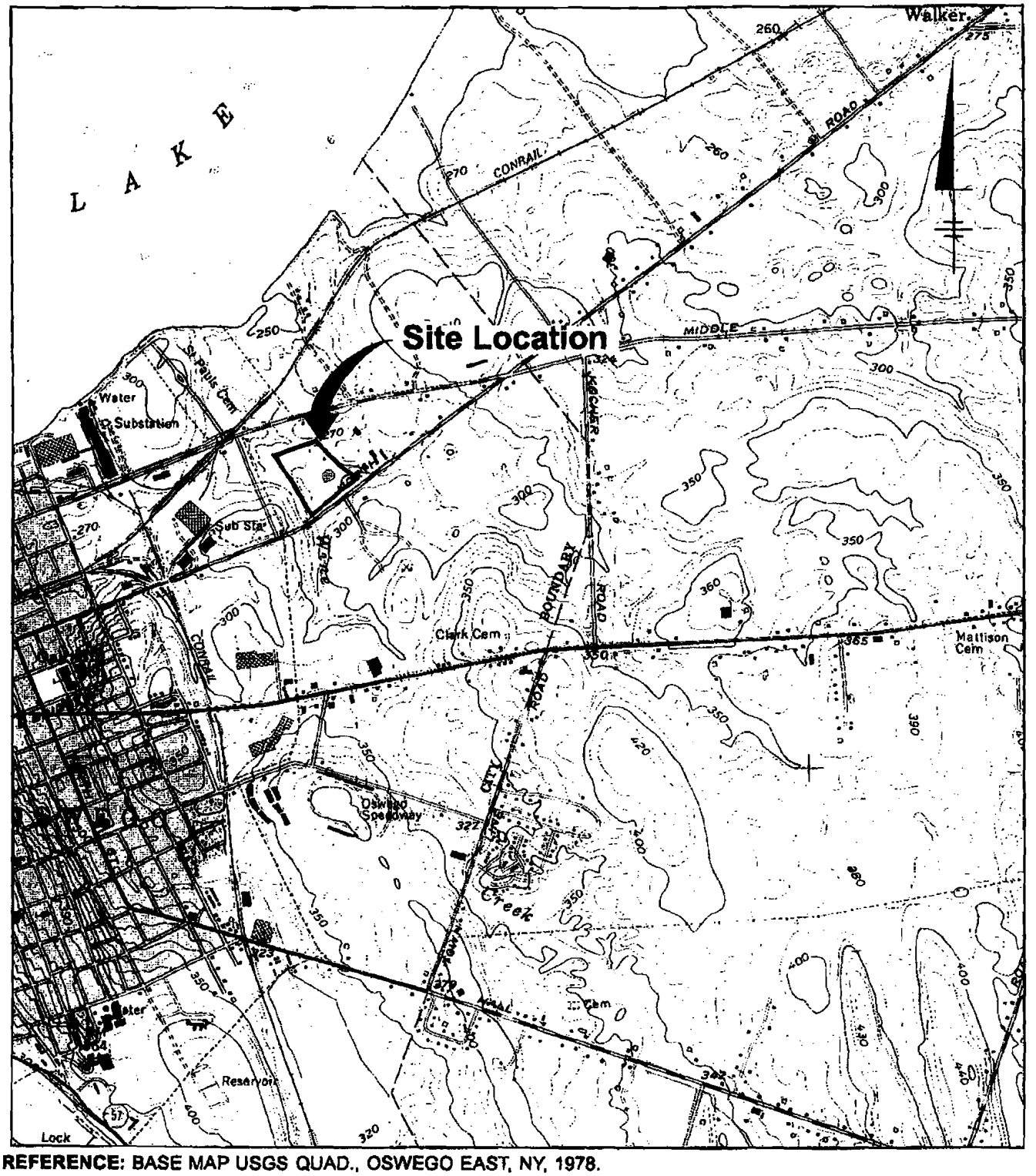
U.S. Environmental Protection Agency, Five-Year Review Report,
Pollution Abatement Services Site, Oswego, New York, 2003.

FIGURES

TABLES

FIGURE 1

Site Plan



REFERENCE: BASE MAP USGS QUAD., OSWEGO EAST, NY, 1978.

2000' 0 2000'

Approximate Scale: 1" = 2000'

AREA LOCATION

POLLUTION ABATEMENT SERVICES SITE
OSWEGO, NEW YORK
OPERATION AND MAINTENANCE AND LONG-TERM MONITORING PLAN

SITE LOCATION MAP

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

FIGURE 1

03/98 SYR-054-DJH
54620001/54820n01.cdr

FIGURE 2

Site Features Plan

LEGEND

M-23	LOCATION AND DESIGNATION OF BEDROCK MONITORING WELL
LS-6	LOCATION AND DESIGNATION OF OVERBURDEN MONITORING WELL
LCW-3	LOCATION AND DESIGNATION OF LEACHATE-COLLECTION WELL (OVERBURDEN)
SWG-1	LOCATION AND DESIGNATION OF STREAM GAUGE
	FENCE (SITE BOUNDARY)
	SLURRY WALL
	APPROXIMATE LOCATION OF SUBSURFACE LEACHATE-RECOVERY TRENCH
	LAND AREAS SUBJECT TO FREQUENT, SHALLOW INUNDATION
	WETLAND AREAS DELINEATED BY MENZIE-CURA & ASSOCIATES, INC. (AUGUST 1992)

NOTES: 1. BASE MAP ADAPTED FROM TOPOGRAPHIC MAP DEVELOPED BY LOCKWOOD MAPPING, INC. BASED ON AN APRIL 14, 1993 AERIAL PHOTOGRAPH; SOME WELL AND STREAM-GAUGE LOCATIONS ARE INFERRED; LOCATION OF SLURRY WALL BASED ON SITE PLAN DRAWN BY DUNN GEOSCIENCE CORP. (DEC. 1984), TITLED "BORING, WELL & TEST PIT PLOT PLAN;" LOCATION OF SUBSURFACE LEACHATE-RECOVERY TRENCHES BASED ON SITE MAP PROVIDED BY O'BRIEN & GERE ENGINEERING INC.

2. SURFACE WATER IS SHOWN IN BLUE; AREAS SHADED GREEN REPRESENT WETLAND AREAS DELINEATED BY MENZIE-CURA & ASSOCIATES, INC. (AUGUST 1992).

200' 0 200'

Title:

SITE PLAN

PAS SITE, OSWEGO, NEW YORK

Prepared For:

de maximis, inc.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: LM	Date: 11/13/08
Prepared by: CRS	Scale: AS SHOWN
Project Mgr: LM	Office: MA
File No: DM0110002	Project: 32701M09

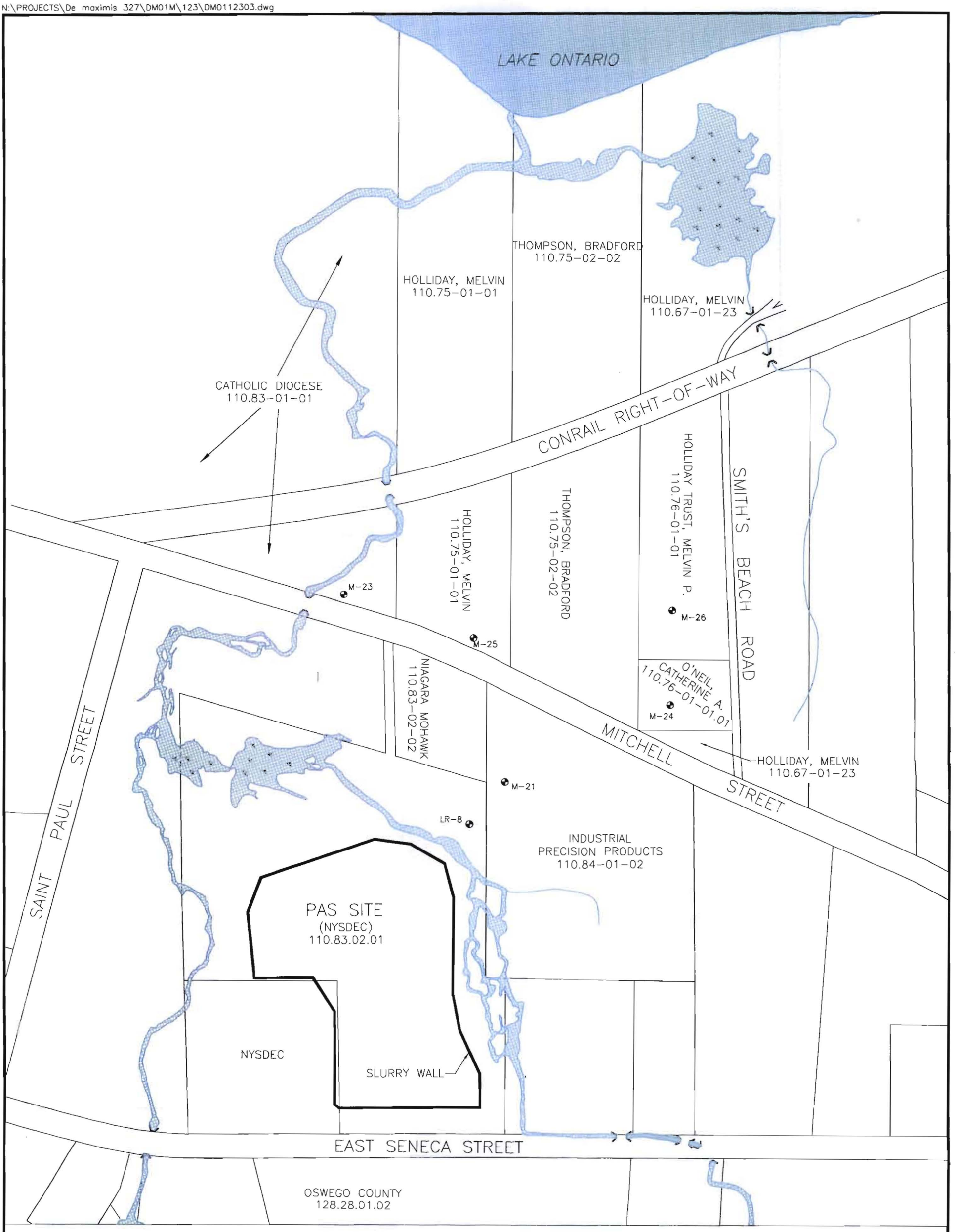
FIGURE 2

N:\PROJECTS\De maximis 327\DM01M09\100\DM0110002.dwg

FIGURE 3

Properties North of Site

N:\PROJECTS\De maximis 327\DM01M\123\DM0112303.dwg



SOURCE:

BASE MAP ADAPTED FROM PHASE 1 AND PHASE 2 SPRDS BASE MAPS, AND FROM OSWEGO COUNTY TAX MAPS 110.60, 110.67, 110.68, 110.75, 110.76, 110.83, 110.84, 128.27 AND 128.28

Title:

PROPERTIES NORTH OF THE PAS SITE

Prepared For:

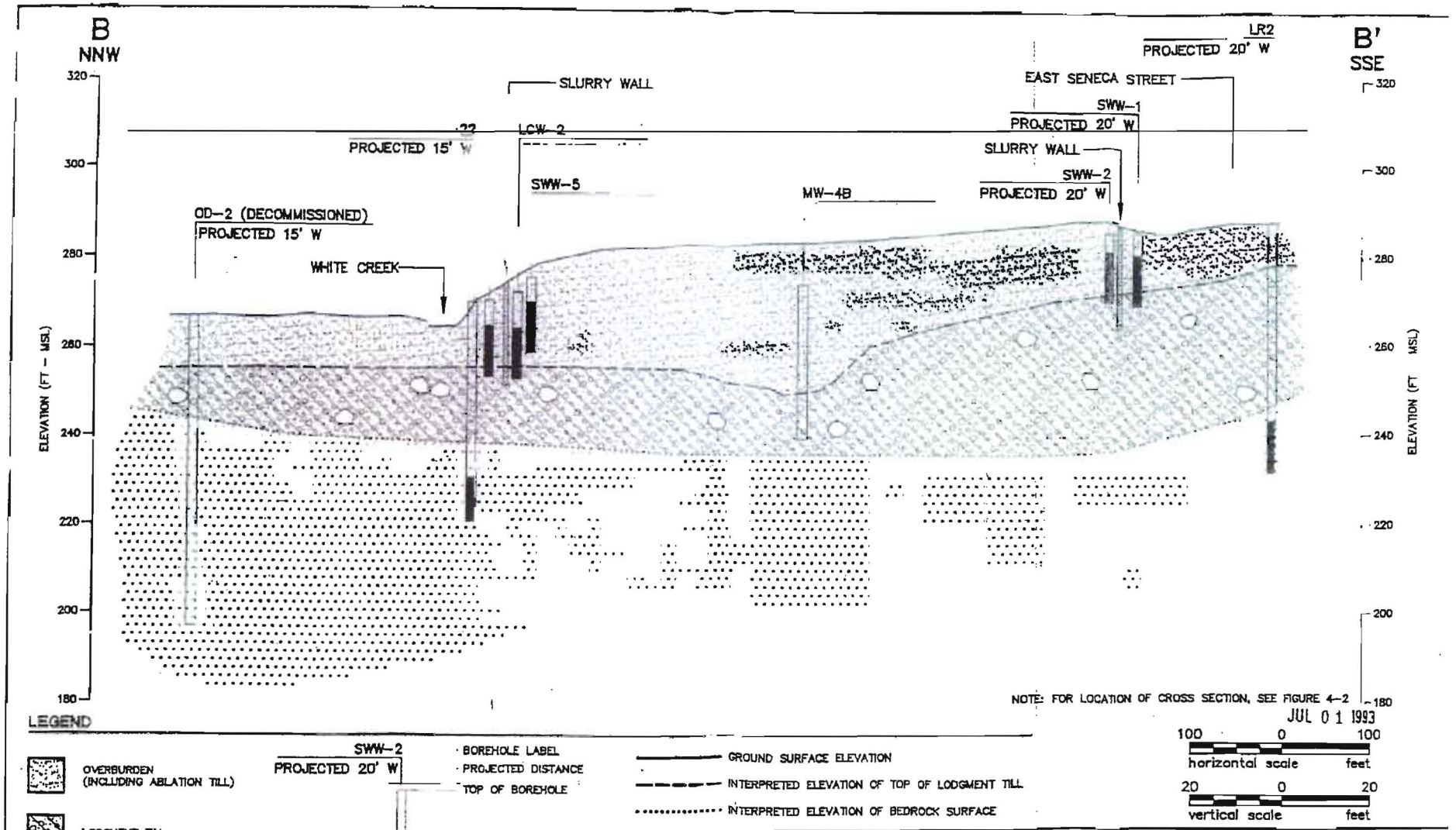
de maximis, Inc.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: LM	Date: 6/18/03	FIGURE
Prepared by: RF	Scale: AS SHOWN	3
Project Mgr: LM	Office: MA	
File No: DM0112303	Project: 32701M08	

FIGURE 4

Geologic Cross Section



JOB No.:	933-6131	SCALE:	AS SHOWN
DR BY:	MRM	DATE:	06/03/93
CHK BY:	RMG	FILE No.:	NY01-307
REV BY:		DR SUBTITLE:	02

Golder Associates

GEOLOGIC CROSS SECTION B-B'

SRI / FS PAS SITE **FIGURE 4**

FIGURE 5 (a-f)

SWW Well Pair Hydrograph Charts

FIGURE 5A
PAS - OSWEGO
GROUNDWATER ELEVATIONS (SWW1 and SWW2)

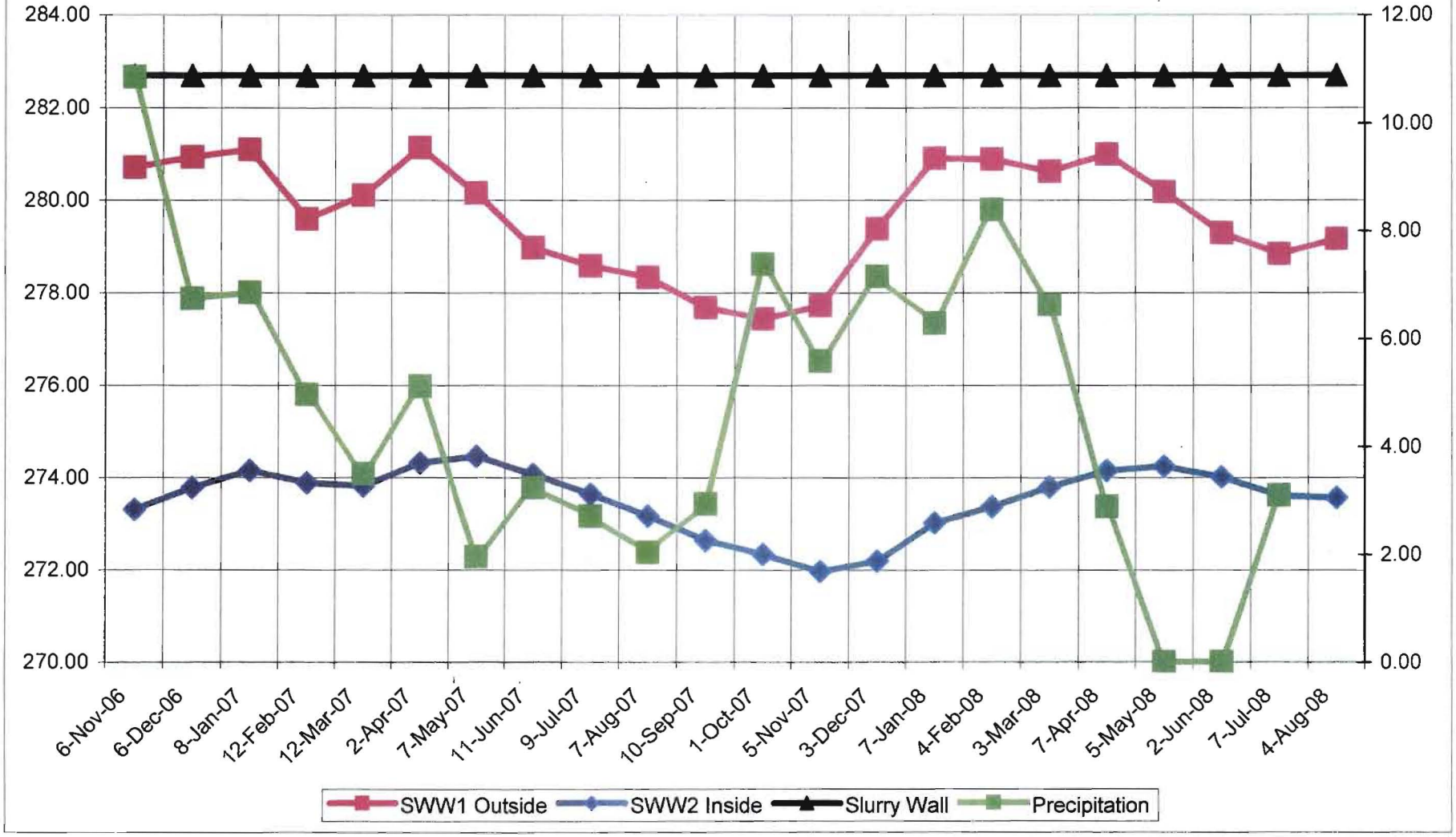


FIGURE 5B
PAS - OSWEGO
GROUNDWATER ELEVATIONS (SWW3 and SWW4)

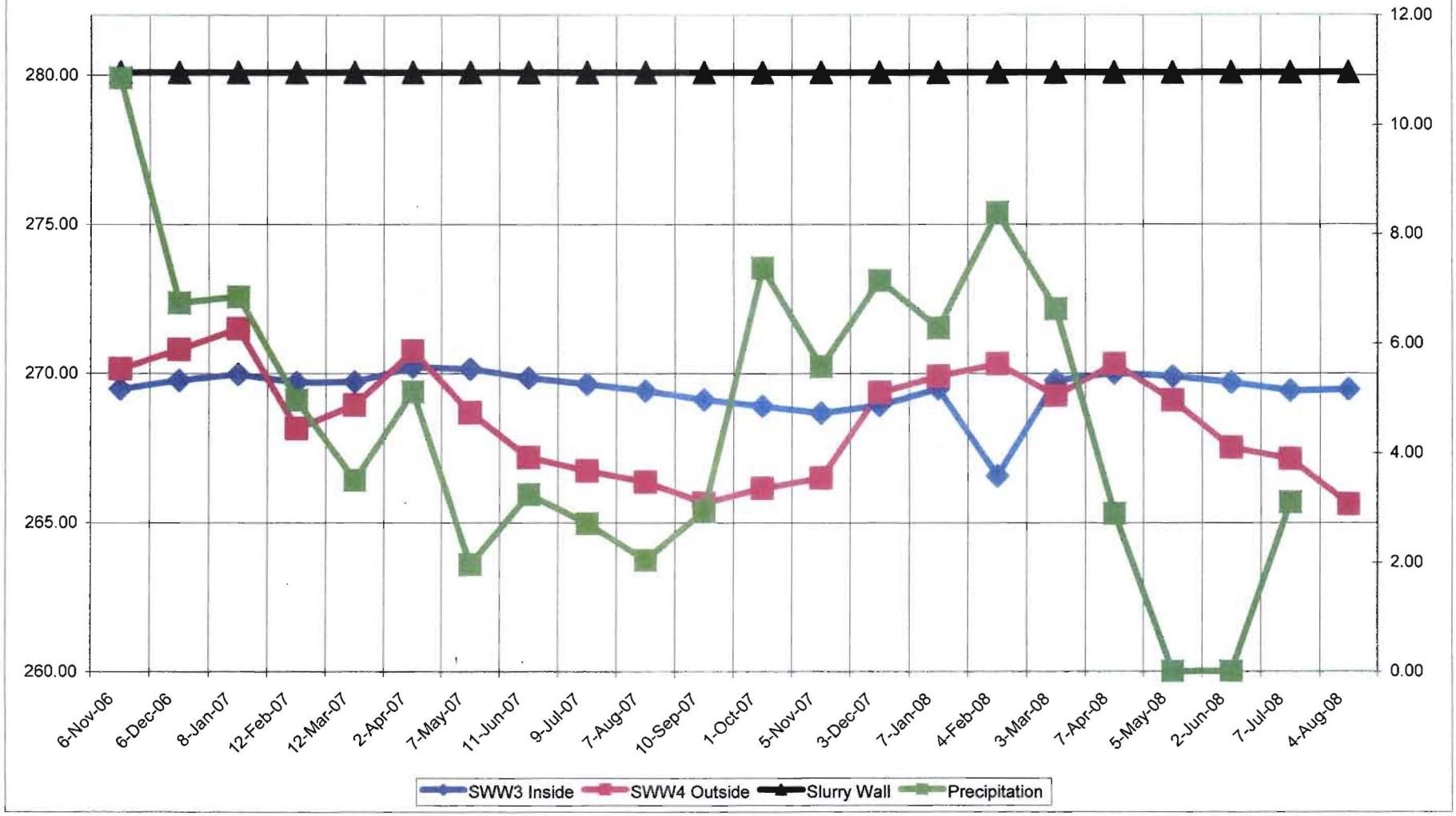


FIGURE 5C
PAS - OSWEGO
GROUNDWATER ELEVATIONS (SWW5 & SWW6)

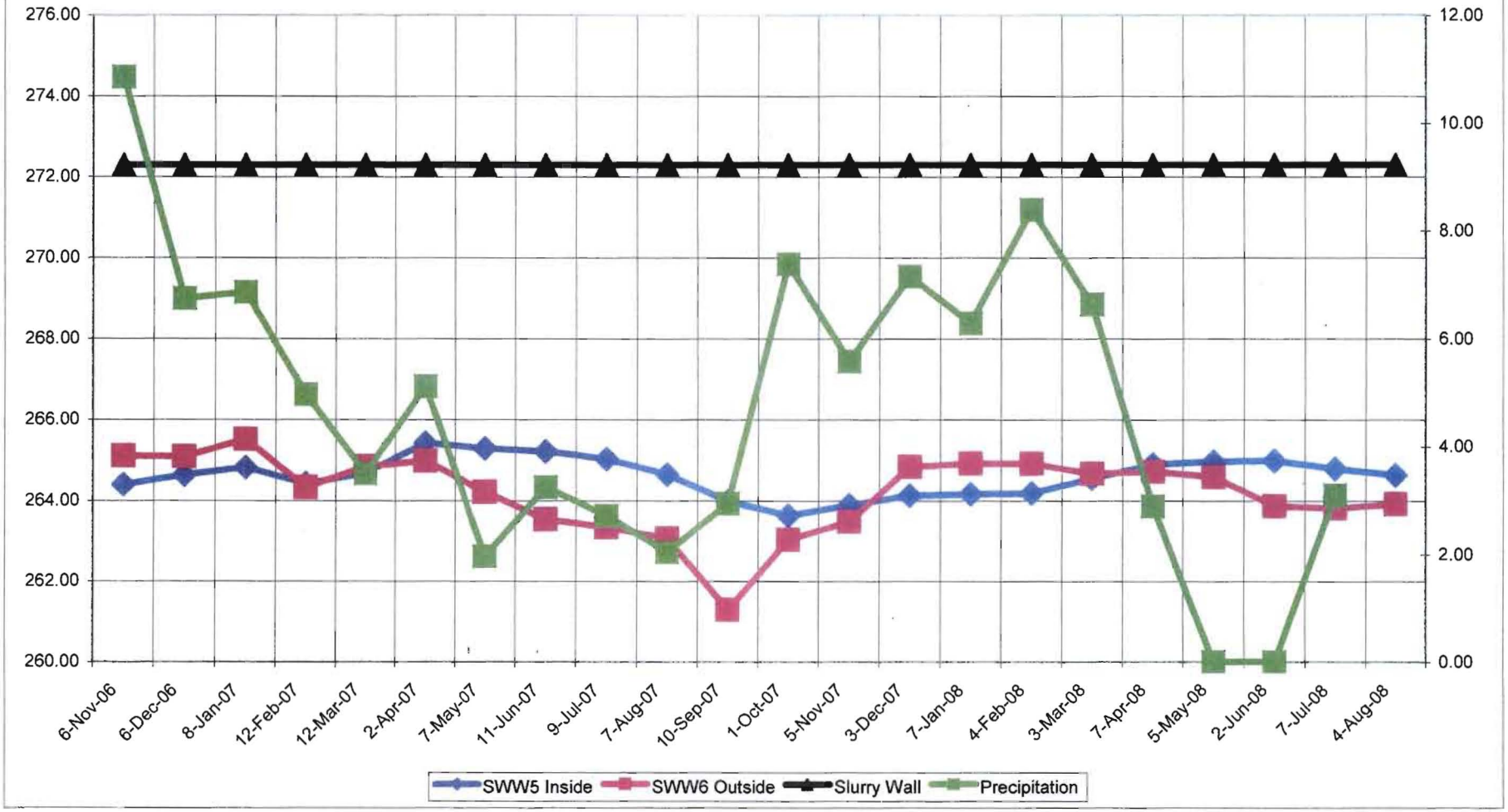


FIGURE 5D
PAS - OSWEGO
GROUNDWATER ELEVATIONS (SWW7 and SWW8)

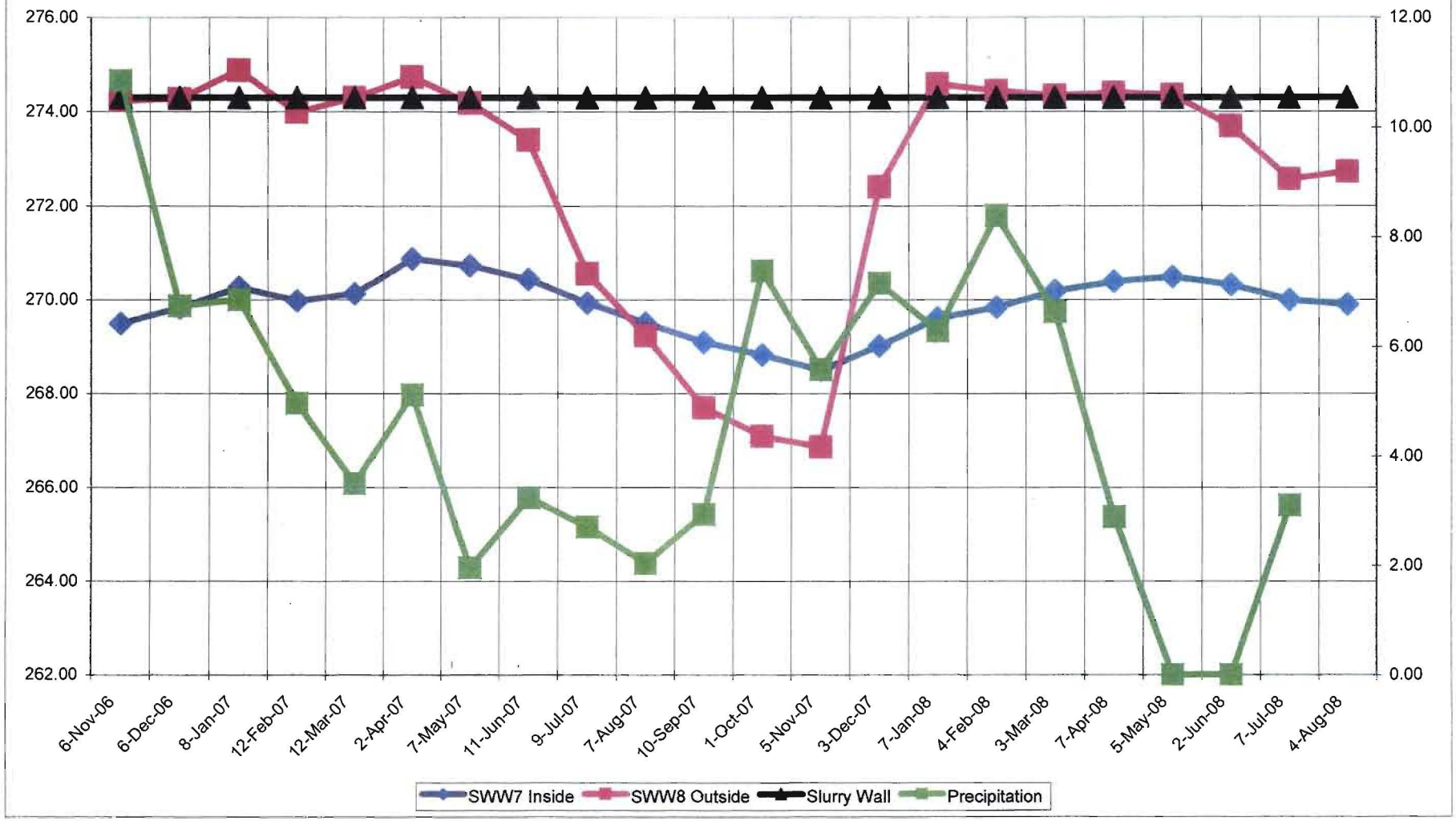


FIGURE 5E
PAS - OSWEGO
GROUNDWATER ELEVATIONS (SWW9 and SWW10)

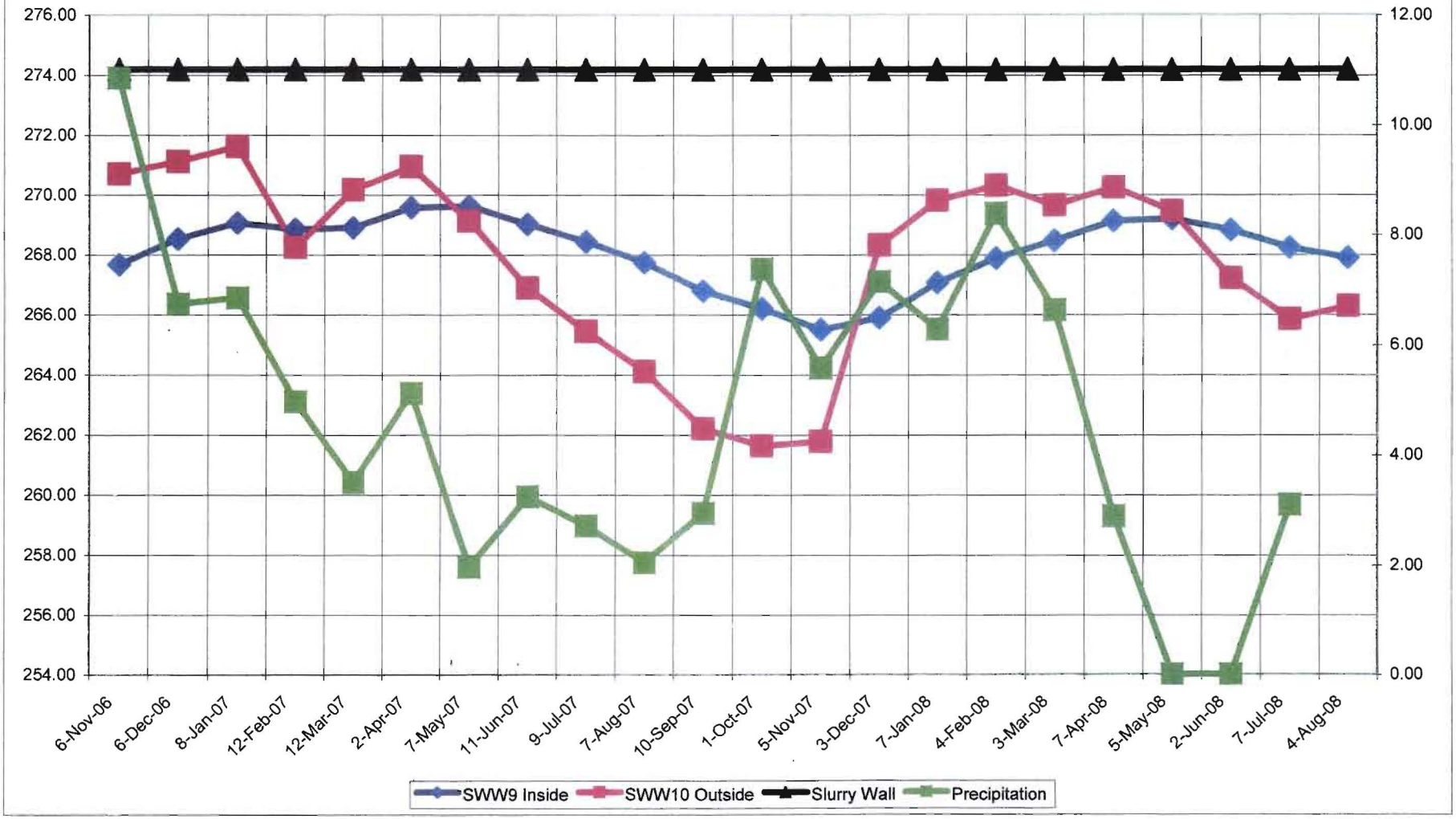


FIGURE 5F
PAS - OSWEGO
GROUNDWATER ELEVATIONS (SWW11 & SWW12)

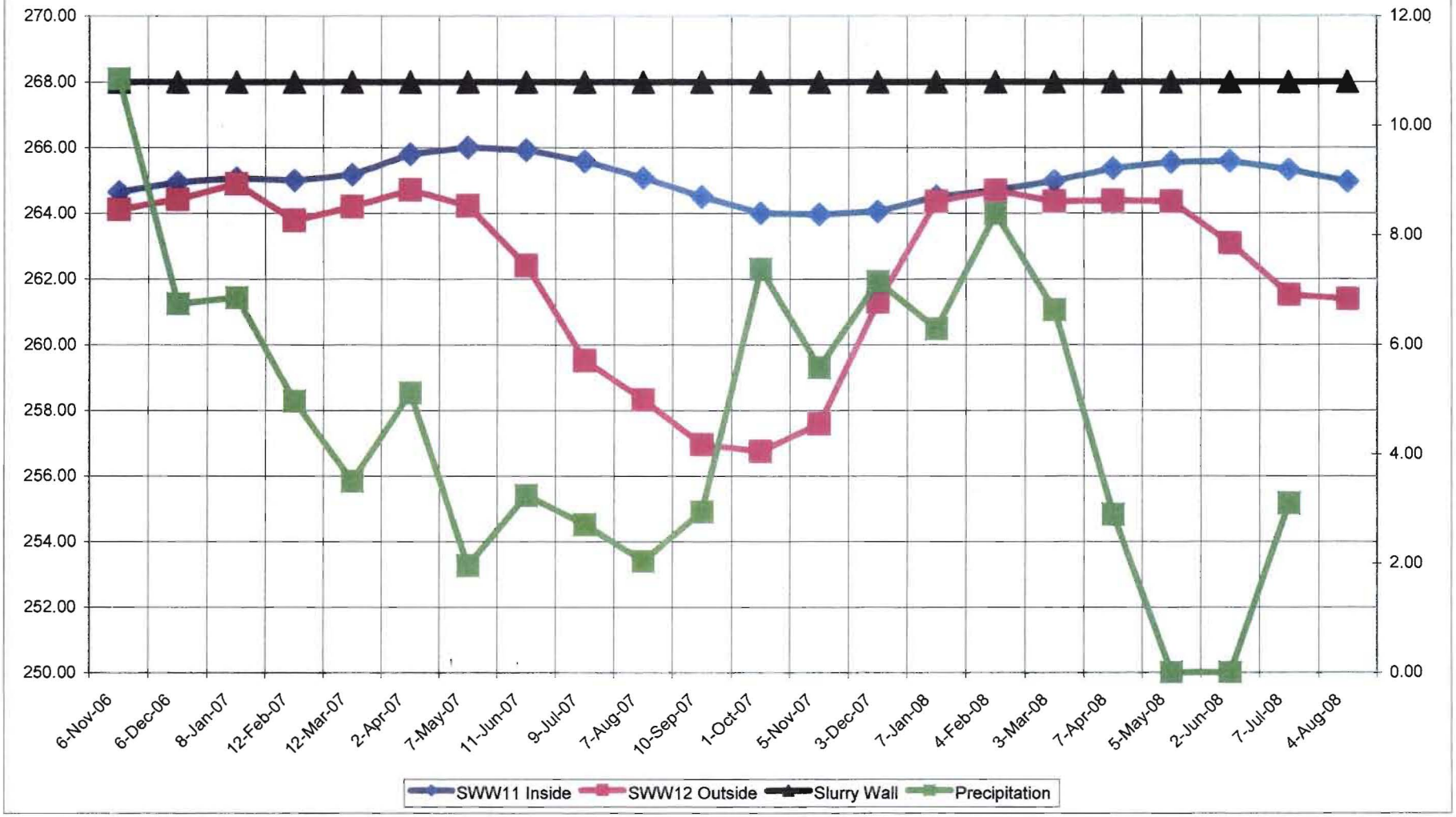


FIGURE 6
Overburden Water Levels
Inside and Outside of Slurry Wall

LEGEND

- 267 — OVERBURDEN ELEVATION CONTOURS IN FEET
- M-23 — LOCATION AND DESIGNATION OF BEDROCK MONITORING WELL
- LS-6 264.59 — LOCATION AND DESIGNATION OF OVERBURDEN MONITORING WELL; WATER LEVEL ELEVATION (MAY 2008)
- LCW-3 — LOCATION AND DESIGNATION OF LEACHATE-COLLECTION WELL (OVERBURDEN)
- SWG-1 — LOCATION AND DESIGNATION OF STREAM GAUGE
- FENCE (SITE BOUNDARY)
- SLURRY WALL
- APPROXIMATE LOCATION OF SUBSURFACE LEACHATE-RECOVERY TRENCH
- LAND AREAS SUBJECT TO FREQUENT, SHALLOW INUNDATION
- WETLAND AREAS DELINEATED BY MENZIE-CURA & ASSOCIATES, INC. (AUGUST 1992)

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200' 0 200'

Title:

OVERBURDEN WATER LEVELS INSIDE AND OUTSIDE OF SLURRY WALL

PAS SITE, OSWEGO, NEW YORK

Prepared For:

de maximis, inc.

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: LM	Date: 11/17/08
Prepared by: CRS	Scale: AS SHOWN
Project Mgr: LM	Office: MA
File No: DM011D003	Project: 32701M09

FIGURE 6

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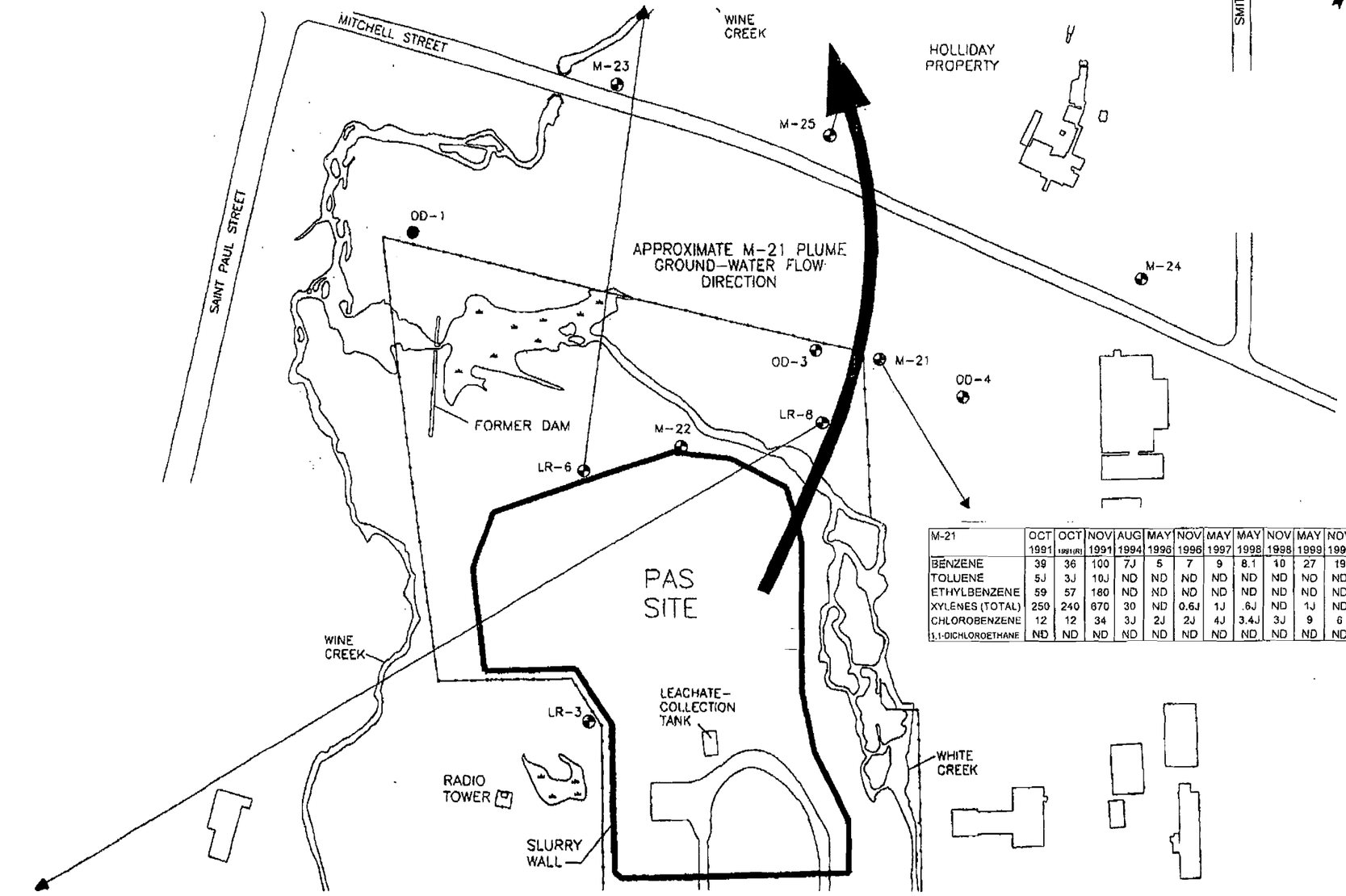
FIGURE 7
Historical Concentrations of VOCs in Groundwater
(OBG 2008)

LR-6	NOV 1989	MAY 1990	NOV 1990	MAY 1991	NOV 1991	MAY 1992	NOV 1992	MAY 1993	NOV 1993	MAY 1994	AUG 1994	NOV 1994	MAY 1995	NOV 1995	MAY 1996	NOV 1996	MAY 1997	MAY 1998	NOV 1998	MAY 1999	NOV 1999	MAY 2000	NOV 2000	MAY 2001	NOV 2001	MAY 2002	NOV 2002	MAY 2003	NOV 2003	MAY 2004	NOV 2004	MAY 2005	NOV 2005	MAY 2006	NOV 2006	MAY 2007	NOV 2007	MAY 2008
BENZENE	2J	ND	1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	2J	2J	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	1J	ND	1J	0.3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
XYLENES (TOTAL)	1J	ND	3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	.12J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	48	67	49	34	33	14	12	8	10	8	7J	13	7	8	ND	8	5	4.2J	6	3	9	2	4.2	ND	4.1	1.6	.16J	1.6	2.1	2.1	2.9	2.2	2.66	3.28	2.83	1.88	0.73	2.26



EXPLANATION

- LR-6 ⊕ LOCATION AND DESIGNATION OF EXISTING BEDROCK MONITORING WELL
- OD-1 ● LOCATION AND DESIGNATION OF ABANDONED BEDROCK MONITORING WELL
- FENCE (SITE BOUNDARY)
- SLURRY WALL
- LAND AREAS SUBJECT TO FREQUENT, SHALLOW INUNDATION

DESIGNATION OF SAMPLING LOCATION

DATE OF SAMPLING EVENT (R=REPLICATE)

M-25	AUG 1994	MAY 1995	NOV 1995	MAY 1997
BENZENE	4J	9	ND	12
TOLUENE	ND	ND	ND	ND
ETHYLBENZENE	ND	ND	ND	ND
XYLENES (TOTAL)	ND	ND	ND	ND
CHLOROBENZENE	1J	3J	ND	8
1,1-DICHLOROETHANE	ND	2J	4J	ND

CONCENTRATION OF VOC DETECTED IN BEDROCK GROUND WATER, MEASURED IN ug/L.

ND – NOT DETECTED

J – ESTIMATED CONCENTRATION (LESS THAN SAMPLE QUANTITATION LIMIT)

D – CONCENTRATION CALCULATED FROM SECONDARY DILUTION

B – COMPOUND DETECTED IN QUALITY CONTROL BLANKS

M-21	OCT 1991	OCT 1991(R)	NOV 1991	AUG 1994	MAY 1996	NOV 1996	MAY 1997	MAY 1998	NOV 1998	MAY 1999	NOV 1999	MAY 2000	NOV 2000	MAY 2001	NOV 2001	MAY 2002	NOV 2002	MAY 2003	NOV 2003	MAY 2004	NOV 2004	MAY 2005	NOV 2005	MAY 2006	NOV 2006	MAY 2007	NOV 2007	MAY 2008
BENZENE	39	36	100	7J	5	7	9	8.1	10	27	19	21	26	14	18	18	13	9.9	4.2	5.5	4	4.7	2.87	.31J	2.08	3.19	0.63	0.68
TOLUENE	5J	3J	10J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	.36J	.48J	.43J	.34J	.25J	.14J	.27J	ND	ND	ND	.44J	.26J	34J	ND	ND
ETHYLBENZENE	59	57	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
XYLENES (TOTAL)	250	240	670	30	ND	0.6J	1J	.6J	ND	1J	ND	ND	ND	.47J	0.91	.30J	.33J	.17J	.15J	ND	ND	ND	ND	ND	ND	.31J	.35J	ND
CHLOROBENZENE	12	12	34	3J	2J	2J	4J	3.4J	3J	9	6	8	9.8	4.2	6.1	6.5	4.3	3.1	1.8	2.1	1.2	2.2	1	0.53	1.47	7.83	4.43	7.13
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	.19J	.32J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

2. ANALYTICAL DATA PRIOR TO AUGUST 1994 OBTAINED FROM GOLDER ASSOCIATES, INC. (1993a) AND URS COMPANY, INC. (1994)

3. FIGURE PROVIDED BY ROUX ASSOCIATES, INC. (PROJECT No. 32702M06, FILE D0610002, DATED 3/98) AND PREVIOUSLY PRESENTED IN "REVIEW OF INTERIM GROUNDWATER REMOVAL AND LONG-TERM MONITORING PROGRAM DATA FOR PAS SITE" (MARCH 1998).

0 200' 400'

GRAPHIC SCALE

LR-8	NOV 1989	MAY 1990	NOV 1990	MAY 1991	NOV 1991	MAY 1992	NOV 1992	MAY 1993	NOV 1993	MAY 1994	AUG 1994	AUG 1994(R)	NOV 1994	MAY 1995	NOV 1995	MAY 1996	NOV 1996	MAY 1997	MAY 1998	NOV 1998	MAY 1999	NOV 1999	MAY 2000	NOV 2000	MAY 2001	NOV 2001	MAY 2002	NOV 2002	MAY 2003	NOV 2003	MAY 2004	NOV 2004	MAY 2005	NOV 2005	MAY 2006	NOV 2006	MAY 2007	NOV 2007	MAY 2008
BENZENE	100	32	55	67	84	82	82	84	45	36	46	51	48	42	29	20J	22	33	30	23	29	34	22	33	21	21	8.8	14	16	21	.33J	.30J	10	ND	9	.031J	2.21	14.2	4.39
TOLUENE	12	11	13B	9J	3J	1BJ	2J	7	0.6J	0.7J	ND	ND	ND	ND	ND	ND	0.5J	ND	0.51J	ND	ND	ND	ND	ND	0.35J	0.41J	.25J	.35J	.44J	.47J	ND	ND	ND	ND	.32J	ND	.23J	49J	.35J
ETHYLBENZENE	150	89	93	110	55	24	26	87	2J	0.8J	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	.12J	ND
XYLENES (TOTAL)	380	200	310	370	190D	270D	370	390D	120	54	87	96	97	29	1J	ND	2J	3J	1.4J	ND	1J	ND	ND	1.1	0.96	1.2	.18J	1.2	.40J	1.4	ND	ND	ND	.35J	ND	.16J	1.31	ND
CHLOROBENZENE	23	7	13	16	18	22	23	22B	10	20	8J	8J	10	9	9	5	5	6	6.4	6	7	8	7	8.2	7.3	6.3	6.5	4.9	7.5	9.7	ND	ND	12	ND	7.87	ND	5.35	14.6	12.5
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	.15J	.10J	ND	.10J	.10J	ND	ND	ND	ND	.10J	ND	ND	ND	.16J

NIAGARA-MOHAWK FIRE-TRAINING SCHOOL

POLLUTION ABATEMENT SERVICES SITE
OSWEGO, NEW YORK
OPERATION AND MAINTENANCE AND LONG-TERM MONITORING PLAN

HISTORICAL CONCENTRATIONS OF VOCs OF CONCERN DETECTED IN CONSENT DECREE WELLS (1998 – 2008)

O'BRIEN & GERE ENGINEERS INC.

FIGURE 7

P. STD-PCP/BL
9/04/98 SYR-54-GTC

FIGURE 8 (a-b)
LCW VOC Concentrations

Figure 8A
LCW2
PAS Oswego Superfund Site Leachate Concentrations
1996 - 2008

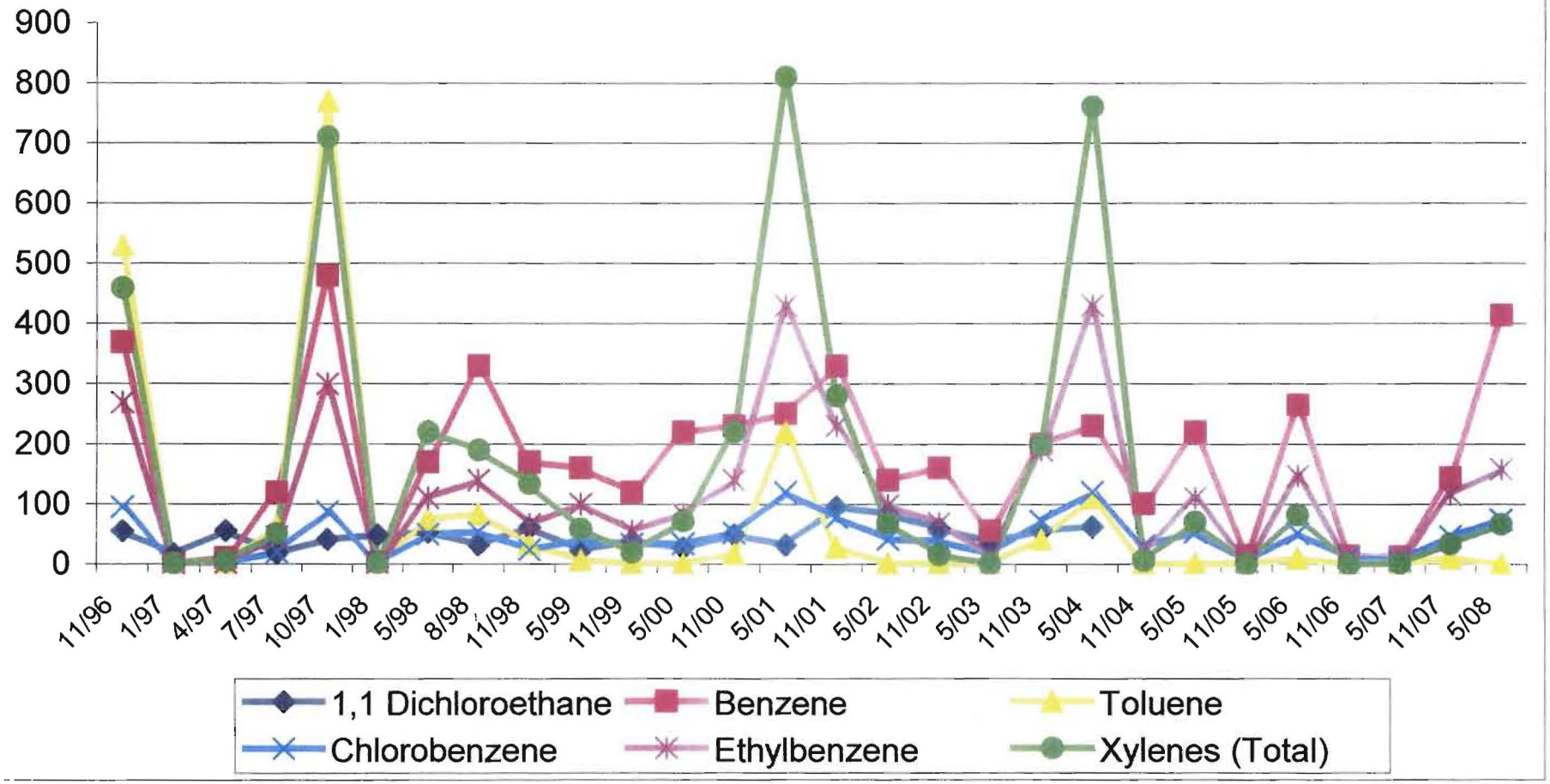


Figure 8B
LCW4
PAS Oswego Superfund Site Leachate Concentrations
1996 - 2008

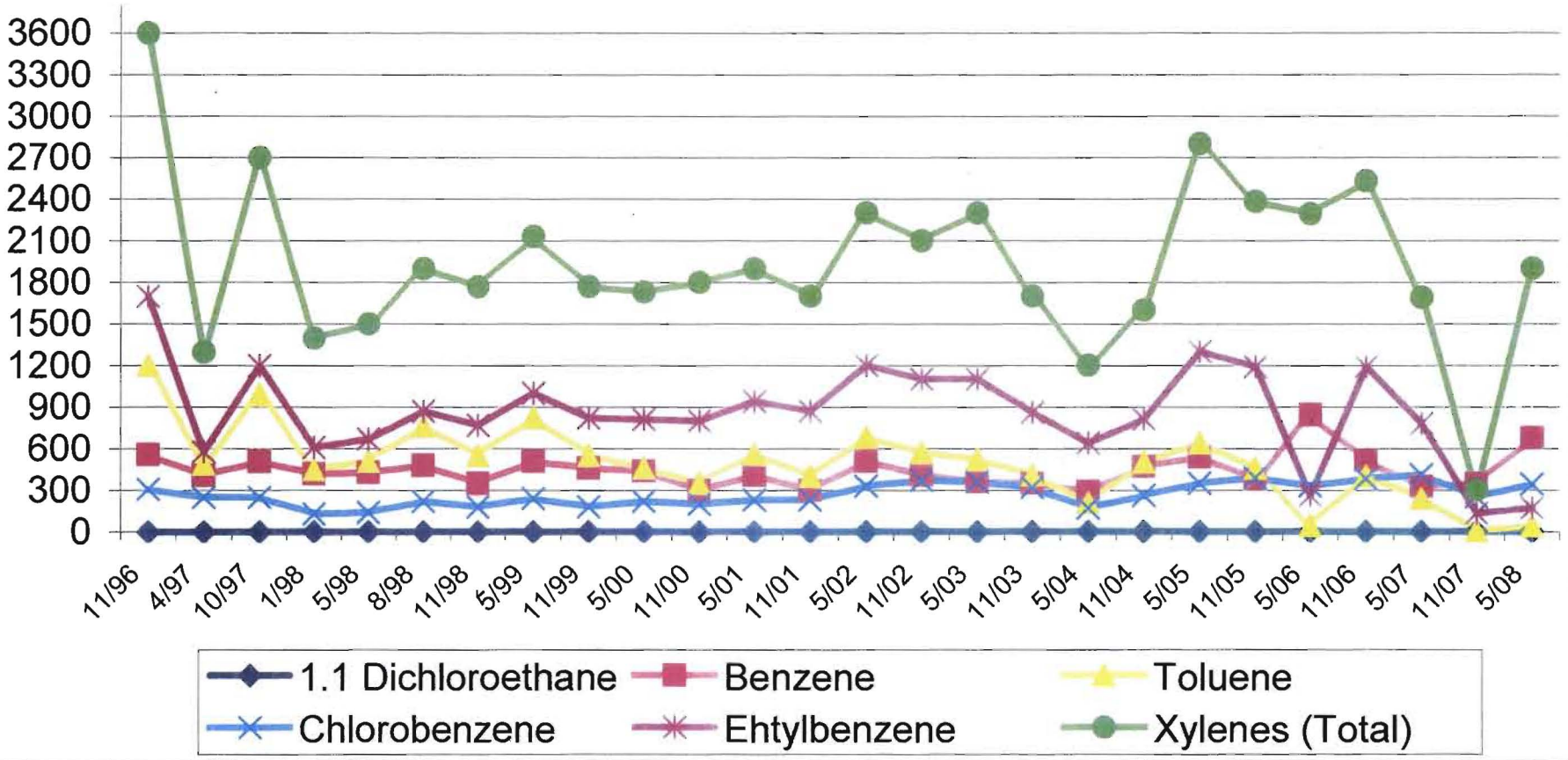
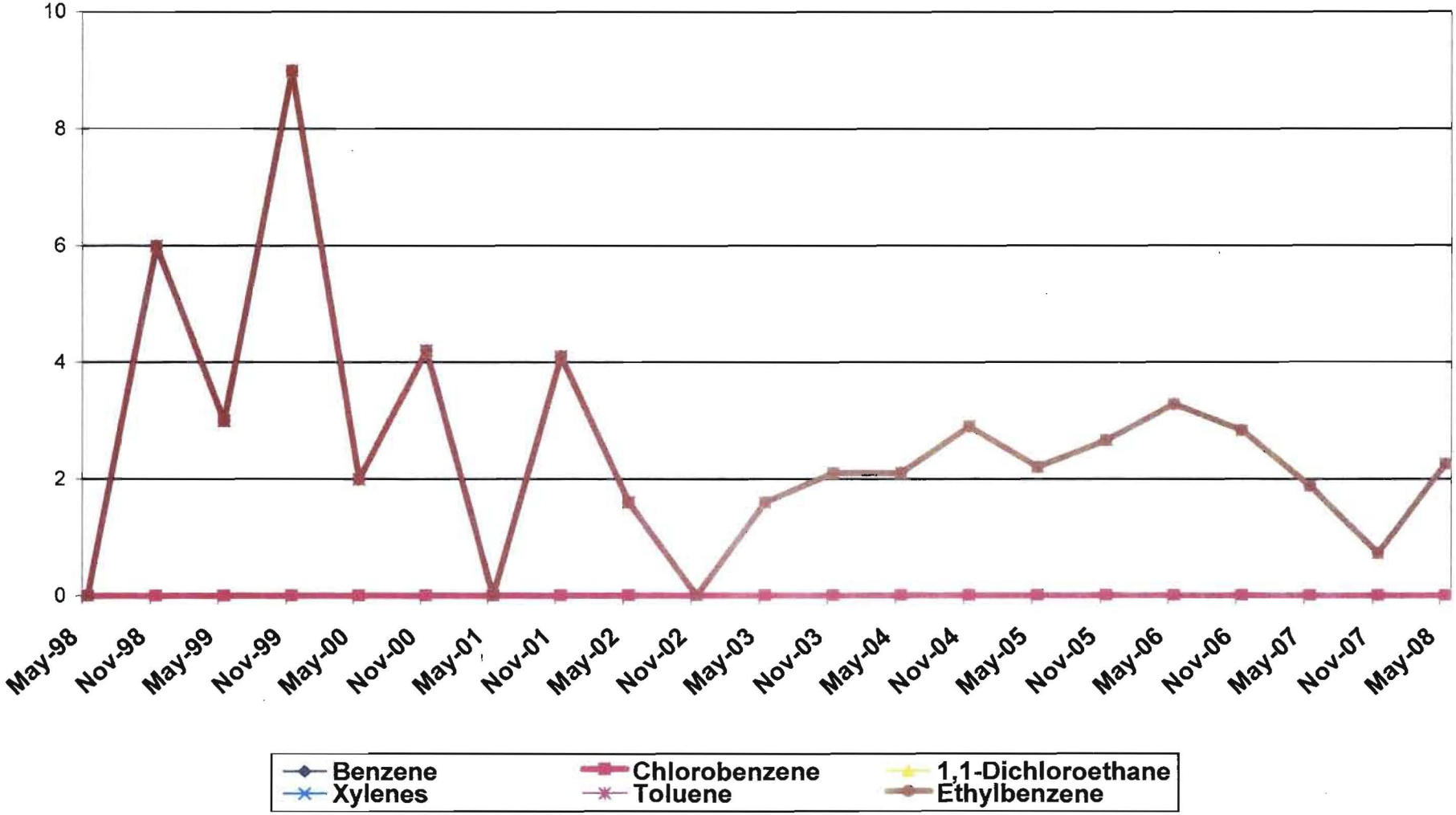


FIGURE 9
Historical Concentrations of VOCs at LR-6

Figure 9
Long Term Groundwater Monitoring at LR-6
PAS Oswego Superfund Site Groundwater
1998 - 2008



Prepared by de maximis, inc.
11/18/2008

FIGURE 10
Historical Concentrations of VOCs at LR-8

Figure 10
Long Term Groundwater Monitoring at LR-8
PAS Oswego Superfund Site Groundwater
1998 - 2008

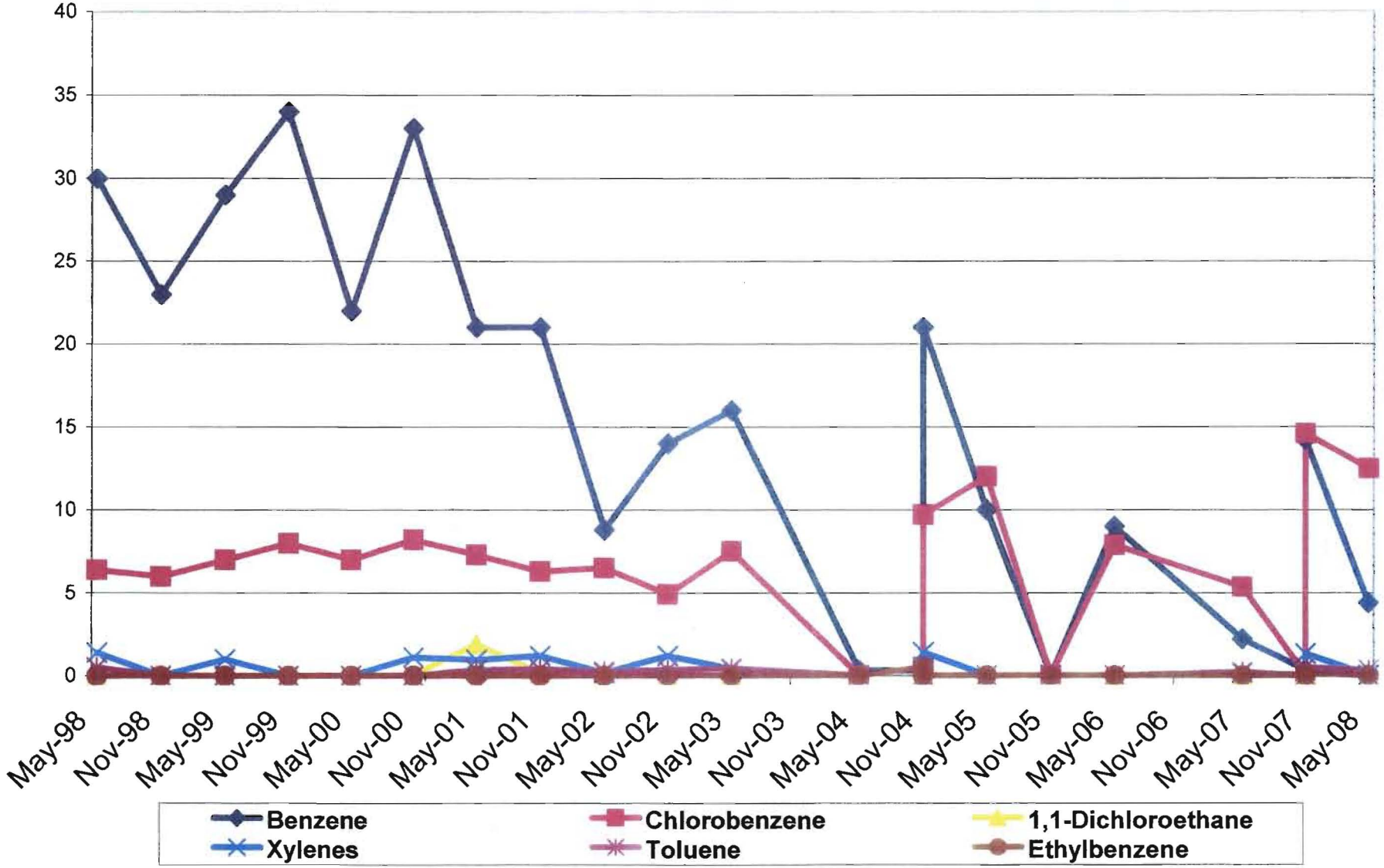
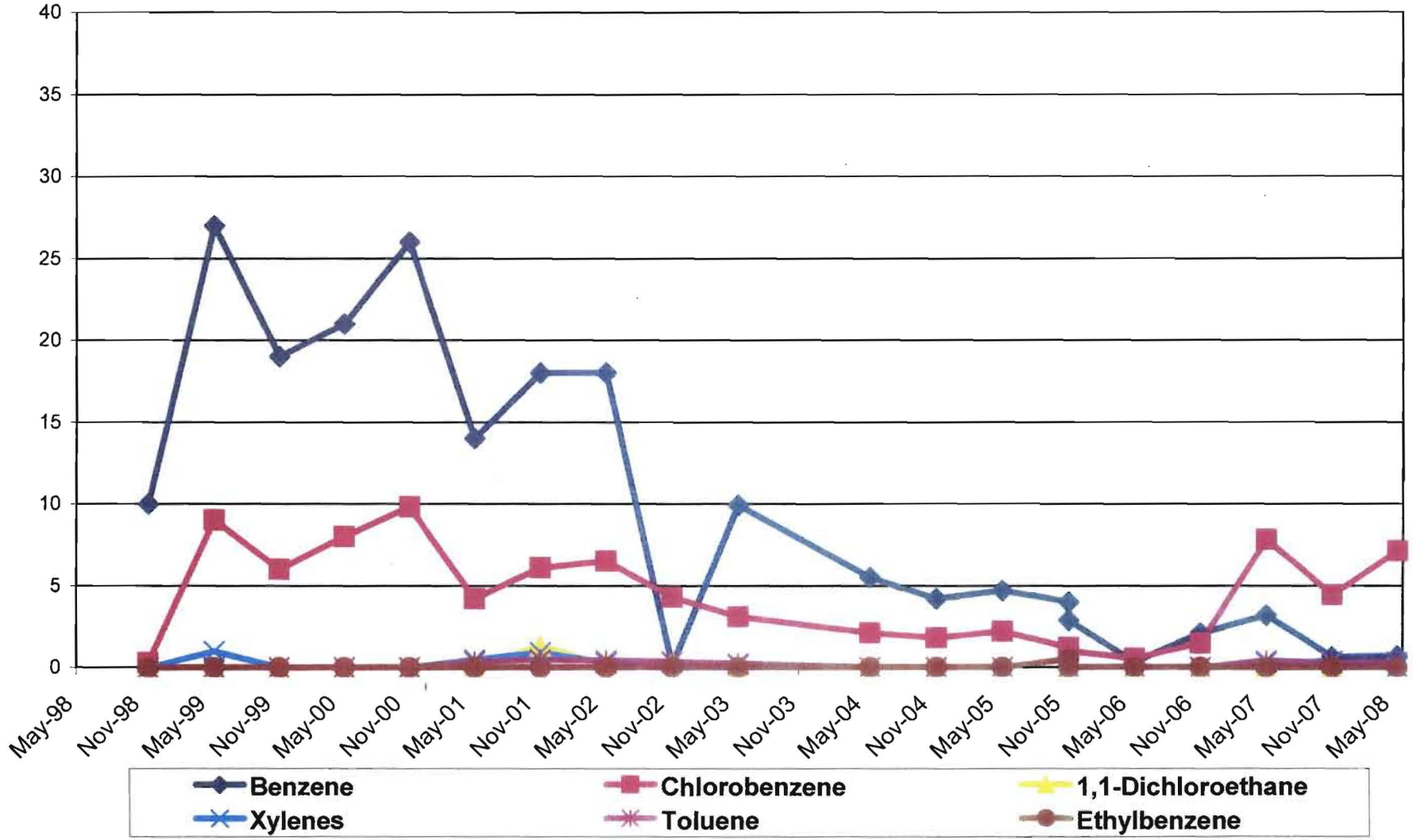


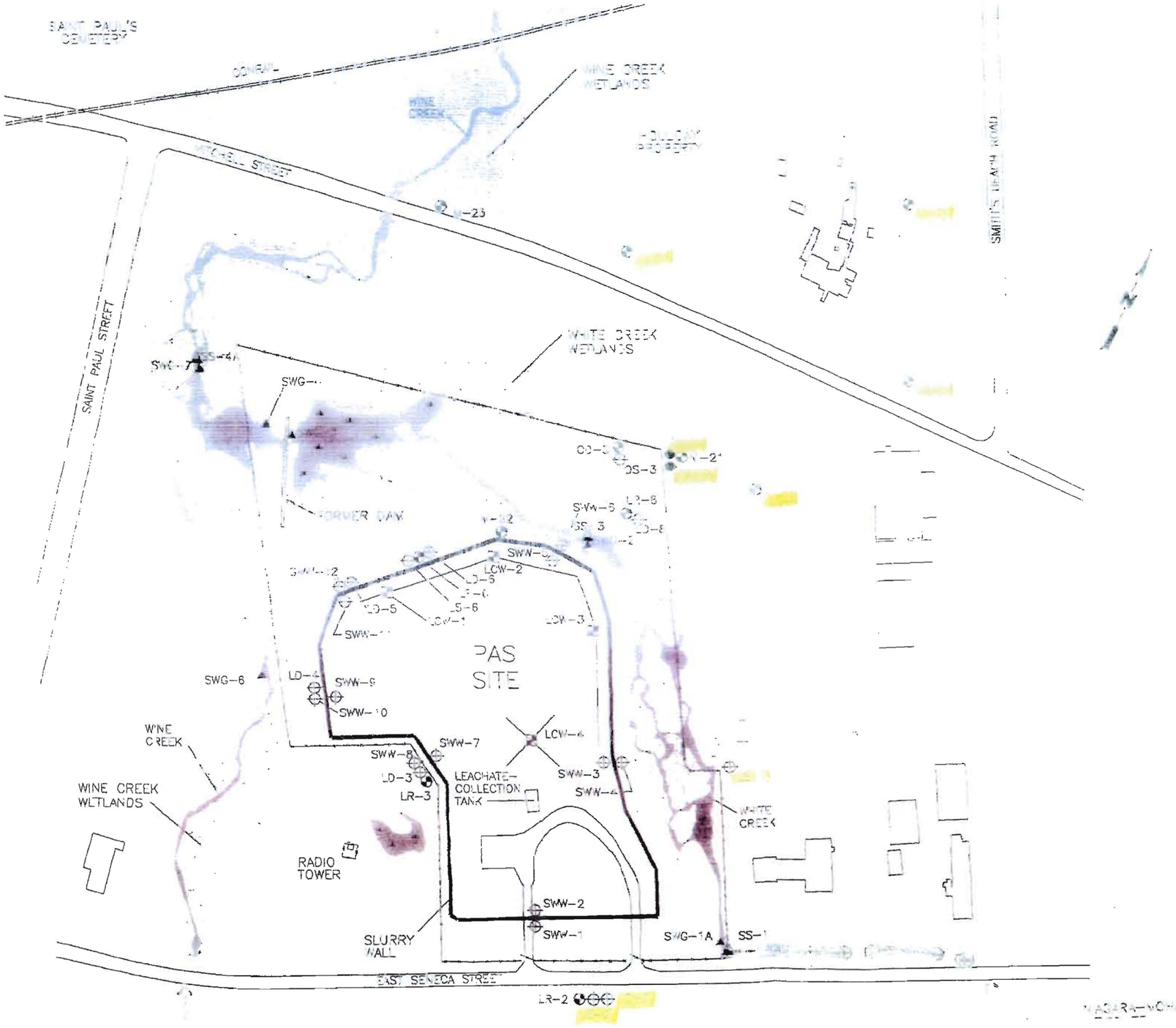
FIGURE 11
Historical Concentrations of VOCs at M-21

Figure 11
Long Term Groundwater Monitoring at Well M-21
PAS Oswego Superfund Site Groundwater Concentrations
1998 - 2008



Prepared by de maximis, inc.
11/18/2008

FIGURE 12
Abandoned Wells



LEGEND:

- –23 — BEDROCK MONITORING WELL
- PZ–1 — BEDROCK PIEZOMETER
- LS–6 — OVERBURDEN MONITORING WELL
- LCW–3 — LEACHATE COLLECTION WELL
- SS–1 — SEDIMENT SAMPLING LOCATION
- SWG–1 — STREAM GAUGE LOCATION
- FENCE (SITE BOUNDARY)
- SLURRY WALL
- APPROXIMATE LOCATION OF SUBSURFACE LEACHATE COLLECTION TRENCH
- LAND AREAS SUBJECT TO FREQUENT, SHALLOW INUNDATION
- WETLAND AREAS DELINEATED BY MENZIE-CURA & ASSOCIATES, INC. (AUGUST 1992)

NOTES:

1. BASE MAP ADAPTED FROM TOPOGRAPHIC MAP DEVELOPED BY LOCKWOOD MAPPING, INC. BASED ON AN APRIL 14, 1993 AERIAL PHOTOGRAPH; SOME WELL AND STREAM-GAUGE LOCATIONS ARE INFERRED; LOCATION OF SLURRY WALL BASED ON SITE PLAN DRAWN BY DUNN GEOSCIENCE CORP. (DEC. 1984), TITLED "BORING, WELL & TEST PIT PLOT PLAN;" LOCATION OF SUBSURFACE LEACHATE-RECOVERY TRENCHES BASED ON SITE MAP PROVIDED BY O'BRIEN & GERE ENGINEERING INC."
2. SURFACE WATER IS SHOWN IN BLUE; AREAS SHADED GREEN REPRESENT WETLAND AREAS DELINEATED BY MENZIE-CURA & ASSOCIATES, INC. (AUGUST 1992).

0 200' 400'
GRAPHIC SCALE

POLLUTION ABATEMENT SERVICES SITE
OSWEGO, NEW YORK
OPERATION AND MAINTENANCE AN
LONG-TERM MONITORING PLAN

FIGURE 12
Monitoring Wells Abandoned (Highlighted) in January 2007

TABLE 1

Operation and Maintenance
&
Long-Term Monitoring Plan
Monitoring Schedule

TABLE 1

BBL ENVIRONMENTAL
PAS SITE
OSWEGO, NY

OPERATION, MAINTENANCE AND LONG-TERM MONITORING PLAN
GROUND-WATER AND LEACHATE SCHEDULE

ACTIVITY	FREQUENCY	LOCATIONS
Long-Term Monitoring		
Ground-Water Elevations	Semi-Annually (spring and fall)	SWW-, LCW-. M-, and LR- series monitoring wells
Ground-Water Quality	Semi-Annually (spring and fall)	LR-6, LR-8, M-21
Operational Monitoring		
Ground-Water Elevations	Monthly (pre-pumping only)	SWW- and LCW- series monitoring wells
Ground-Water Elevations	Quarterly (pre-pumping only)	SWW-, LCW-, M-, and LR-series monitoring wells
Leachate Quality	Semi-Annually (spring and fall)	LCW-2 and LCW-4

Notes:

1. See Figure 2 for monitoring locations.

2. Where long-term and operationaL ground-water elevation measurement activity schedules coincide, the activities will be combined into a single monitoring event.

3. Operational ground-water elevation, leachate quality and surface elevation monitoring will be performed as necessary to conduct site operations.

4. Monitoring wells included as part of the operational monitoring activities may be deleted based on a review of operational monitoring data and data needs.

Prepared by:
BBL Environmental Services, Inc.
30-Apr-98

TABLE 2

Performance Standards

Table 2

Consent Decree Performance Standards	
Chemical Constituent	Concentration (micrograms per liter)
Benzene	0.7
Chlorobenzene	5
1,1-Dichloroethane	5
Ethylbenzene	5
Toluene	5
Xylenes	5

TABLE 3 (a-b)

Additional Leachate Sampling Data

Table 3a
PAS OSWEGO SITE - OSWEGO, NY
LEACHATE CHARACTERIZATION DATA:
1992 - 2008

	Historical Leachate Characterization (ppb)			*Leachate Characterization (ppb) - 2007*				*Leachate Characterization* (ppb) -2008	TCLP
	For Disposal @ Dupont	For Disposal @ CECOS	For Disposal @ Clean Harbors	For Disposal @ Clean Harbors	For Disposal @ Clean Harbors	For Disposal @ Clean Harbors		For Disposal @ Auburn	Limit
COMPOUND (PPB - ug/L)	*2/92*	*5/96**	*11/04*	*6/07*	*7/07*	*8/07*	2007 AVG	*6/08*	ppb
ACETONE								31.7	
BENZENE	700	370	280	228	286	227	247	223	500
BROMOFORM	<500	<250	<20	<20	<25	<20		<10	
BROMOMETHANE	<1000	<500	<40	<40	<50	<40		<10	
BROMODICHLOROMETHANE	<500	<250	<20	<20	<25	<20		<5	
CARBON TETRACHLORIDE	<500	<250	<20	<20	<25	<20		<5	500
CHLOROMETHANE	<1000	<500	<40	<40	<50	<40		<10	
CHLOROBENZENE	750	<250	190	205	222	168	198	158	100,000
CHLOROETHANE	<1000	<500	60	51.4	64.5	55.4	57	42.7	-
CHLOROFORM	<500	<250	<20	<40	<25	<20		1.10	6000
DIBROMOCHLOROMETHANE	<500	<250	<20	<20	<25	<20		<5	
1,2-DICHLOROBENZENE	<2000.	<550	38	32.8	40.2	27.6	34	24.3	-
1,1-DICHLOROETHANE	<500	<250	30	16.6	27.8	25.2	23	14.4	-
1,2-DICHLOROETHANE	<500	<250	<20	1.98	<25	<20		2.70	500
1,1-DICHLOROETHENE	<500	<250	<20	<20	<25	<20		<5	700
1,2-DICHLOROETHENE	5300	1900	59	52	69	140	87	46.7	-
1,2-DICHLOROPROPANE	<500	<250	<20	<20	<25	<20		<5	
CIS -1,3-DICHLOROPROPENE	<500	<250	<20	<20	<25	<20		<5	
TRANS -1,3-DICHLOROPROPENE	<500	<250	<20	<20	<25	<20		<5	
ISOPROPYLBENZENE								7.40	
ETHYLBENZENE	5600	950	570	417	511	342	423	347	-
METHYLENE CHLORIDE	3200	370	<80	<20	<25	<20		<20	
1,1,2,2-TETRACHLOROETHANE	<500	<250	<20	1.06	<25	<20		<5	
TETRACHLOROETHENE	<500	<250	<20	<20	<25	<20		<5	700
TOLUENE	4500	700	170	96.2	93.2	80	83	57.9	-
TRICHLOROETHENE	<500	<250	25	4.06	<25	<20		1.20	700
1,1,1-TRICHLOROETHANE	<500	<250	<20	2.23	<25	<20		<5	
1,1,2-TRICHLOROETHANE	<500	<250	<20	<20	<25	<20		<5	
VINYL CHLORIDE	990	610	<40	16.3	<50	59.2	25	14.3	200
XYLENES (TOTAL)	11,000	2200	1100	1140	1300	866	1102	905	-
BTEX	21500	4220	2120	1881.2	2190.2	1495	1855	1228	

	Historical Leachate Characterization (ppm)			*Leachate Characterization (ppm) - 2007*				*Leachate Characterization* (ppb) -2008
	For Disposal @ Dupont Leachate	For Disposal @ CECOS Leachate	For Disposal @ Clean Harbors Leachate	For Disposal @ Clean Harbors Leachate	For Disposal @ Clean Harbors Leachate	For Disposal @ Clean Harbors Leachate		For Disposal @ Auburn
OTHER PARAMETERS (PPM-mg/L)	*2/92*	*5/96**	*11/04*	*6/07*	*7/07*	*8/07*	AVG	*6/08*
BOD	740	725	53	32	17	27	25	22
COD	1300	1110	230	180	170	180	177	180
TOC	550	415						
TSS	340	215	100	96	92	92	93	100
TDS	2900	3950						
Cyanide				<0.01	<0.01	<0.01		
Ammonia (as N)				41	39	37	39	40
TKN				41	39	38	39	
Phosphorus				0.38	0.29	0.15	0	
pH				6.94	6.78	6.89	7	
Sulfide				<1.0	<1.0	<1.0		

Prepared by: de maximis

SVOC	Historical Leachate Characterization (ppb)			Leachate Characterization (ppb) - 2007				Leachate Characterization (ppb) -2008 For Disposal @ Auburn
	For Disposal @ Dupont Leachate	For Disposal @ CECOS Leachate	For Disposal @ Clean Harbors Leachate	For Disposal @ Clean Harbors Leachate	For Disposal @ Clean Harbors Leachate	For Disposal @ Clean Harbors Leachate		
COMPOUND (PPB - ug/L)	2/92	5/96*	11/04	6/07	7/07	8/07	AVG	6/08
Phenol	740	3200	41	400	170	290	287	44
bis (2-Chloroethyl) ether	<2000.	<550	<10.	<100	<10	<100		<100
2-Chlorophenol	<2000.	<550	<10.	<100	<50	<100		<100
2-Methylphenol	<2000.	<550	18	<100	<50	<100		<100
4-Methylphenol	1600	1300	<10.	<100	31	<100		42
N-Nitroso-di-n-propylamine	<2000.	<550	<10.	<100	<50	<100		<100
Hexachloroethane	<2000.	<550	<10.	<100	<50	<100		<100
Nitrobenzene	<2000.	<550	<10.	<100	<50	<100		<100
Isophorone	<2000.	<550	<10.	<100	<50	<100		<100
2-Nitrophenol	<2000.	<550	<10.	<100	<50	<100		<100
2,4-Dimethylphenol	<2000. (170.)	<550	99	110	84	<100	65	87
Benzoic Acid	<10,000.	4800	<10.					
bis (2-Chloroethoxy) methane	<2000.	<550	<51.	<100	<50	<100		<100
2,4-Dichlorophenol	<2000.	<550	<10.	<500	<50	<100		<100
1,2,4-Trichlorobenzene	<2000.	<550	<10.					
Naphthalene	<2000.	<550	<10.	<100	<50	<100		<100
4-Chloroaniline	<2000.	<550	<10.	<100	<50	<100		<100
Hexachlorobutadiene	<2000.	<550	<10.	<100	<50	<100		<100
4-Chloro-3-methylphenol	<2000.	<550	<10.	<100	<50	<100		<100
2-Methylnaphthalene	<2000.	<550	<10.	<100	<50	<100		<100
Hexachlorocyclopentadine	<2000.	<550	<10.	<100	<50	<100		<100
2,4,6-Trichlorophenol	<2000.	<550	<10.	<100	<50	<100		<100
2,4,5-Trichlorophenol	<10,000.	<1400	<51.	<500	<250	<500		<500
2-Chloronaphthalene	<2000.	<550	<10.	<100	<50	<100		<100
2-Nitroaniline	<10,000.	<1400	<51.	<500	<250	<500		<500
Dimethylphthalate	<2000.	<550	<10.	<100	<50	<100		<100
Acenaphthylene	<2000.	<550	<10.	<100	<50	<100		<100
2,6-Dinitrotoluene	<2000.	<550	<10.	<100	<50	<100		<100
3-Nitroaniline	<10,000.	<1400	<51.	<100	<250	<500		<500
Acenaphthene	<2000.	<550	<10.	<100	<50	<100		<100
2,4-Dinitrophenol	<10,000.	<1400	<51.	<100	<250	<100		<100
4-Nitrophenol	<10,000.	<550	<51.	<500	<250	<500		<500
Dibenzofuran	<2000.	<550	<10.	<100	<50	<100		<100
2,4-Dinitrotoluene	<2000.	<550	<10.	<100	<50	<100		<100
Diethylphthalate	<2000.	<550	<10.	<100	<50	<100		<100
4-Chlorophenyl-phenylether	<2000.	<550	<10.	<100	<50	<100		<100
Fluorene	<2000.	<550	<10.	<100	<50	<100		<100
4-Nitroaniline	<10,000.	<1400	<51.	<500	<250	<500		<500
4,6-Dinitro-2-methylphenol	<10,000.	<1400	<51.	<100	<50	<100		<100
N-Nitrosodiphenylamine	<2000.	<550	<10.	<100	<50	<100		<100
4-Bromophenyl-phenylether	<2000.	<550	<10.	<100	<50	<100		<100
Hexachlorobenzene	<2000.	<550	<10.	<100	<50	<100		<100
Pentachlorophenol	<10,000.	<1400	<51.	<500	<250	<500		<500
Phenanthrene	<2000.	<550	<10.	<100	<50	<100		<100
Anthracene	<2000.	<550	<10.	<100	<50	<100		<100
Carbazole	NA	<550	NA	<100	<50	<100		<100

Prepared by: de maximis

SVOC cont'd							
Di-n-butylphthalate	<2000.	<550	<10.	<100	<50	<100	<100
Fluoranthene	<2000.	<550	<10.	<100	<50	<100	<100
Pyrene	<2000.	<550	<10.	<100	<50	<100	<100
Butylbenzylphthalate	<2000.	<550	<10.	<100	<50	<100	<100
3-3'-Dichlorobenzidine	<4000.	<550	<.20.	<200	<100	<200	<200
Benzo(a)anthracene	<2000.	<550	<10.	<100	<50	<100	<100
Chrysene	<2000.	<550	<10.	<100	<50	<100	<100
bis(2-Ethylhexyl)phthalate	<2000.	<550	<10.	<100	<50	<100	<100
Di-n-octylphthalate	<2000.	<550	<10.	<100	<50	<100	<100
Benzo(b)fluoranthene	<2000.	<550	<10.	<100	<50	<100	<100
Benzo(k)fluoranthene	<2000.	<550	<10.	<100	<50	<100	<100
Benzo(a)pyrene	<2000.	<550	<10.	<100	<50	<100	<100
Indeno(1,2,3-cd)pyrene	<2000.	<550	<10.	<100	<50	<100	<100
Dibenzo(a,h)anthracene	<2000.	<550	<10.	<100	<50	<100	<100
Benzo(g,h,i)perylene	<2000.	<550	<10.	<100	<50	<100	<100

Metals/PCBs/PEST	*Historical Leachate Characterization (ppm)*			*Leachate Characterization (ppm) - 2007*				*Leachate Characterization*
	For Disposal @ Dupont Leachate	For Disposal @ CECOS Leachate	For Disposal @ Clean Harbors Leachate	For Disposal @ Clean Harbors Leachate	For Disposal @ Clean Harbors Leachate	For Disposal @ Clean Harbors Leachate		(ppb) -2008 For Disposal @ Auburn
COMPOUND (PPM - mg/L)	*2/92*	*5/96**	*11/04*	*6/07*	*7/07*	*8/07*	AVG	*6/08*
Aluminum	5	<.1	N/A					<0.10
Antimony	<0.06	<.06	N/A					<0.060
Arsenic	0.053	0.033	0.022	0.02	0.018	0.018	0.02	0.02
Barium	1.4	1	0.69					0.61
Beryllium	<0.005	<.01	N/A					<0.010
Boron								1.9
Cadmium	<0.005	<.01	<.010	<0.01	<0.01	<0.01		<0.10
Calcium	530	450	N/A				0.00	300
Chromium	0.06	0.04	0.017	0.02	0.024	0.019	0.02	0.02
Cobalt	<0.05	<.05	N/A					>0.050
Copper	0.09	0.39	N/A	<0.01	<0.01	<0.01		0.01
Iron	84	85	N/A	46	42	41	43.00	44
Lead	0.008	<.005	<.0050	<0.01	<0.01	<0.01		<0.0.10
Magnesium	87	85	N/A					69
Manganese	26	8.6	N/A					6.8
Molybdenum								0.02
Mercury	<0.0002	<.0002	<.00020	<.00020	<.00020	<.00020		<.00020
Nickel	1.3	1.6	0.71	0.62	0.58	0.56	0.59	0.65
Potassium	92	110	N/A					64
Selenium	<0.005	<.005	<.0050	<0.01	<0.01	<0.01		<0.010
Silver	<0.01	<.01	<.010	<0.01	<0.01	<0.01		<0.010
Sodium	200	220	N/A					150
Thallium	<0.1	<.005	N/A					<0.020
Tin								<0.050
Titanium								<0.050
Vanadium	<0.05	<.05	N/A					<0.010
Zinc	0.04	0.02	N/A	<0.02	<0.02	<0.02		0.01
PCBs	ND	ND	N/A	ND	ND	ND		
PEST	ND	ND	N/A	ND	ND	ND		

*6/07 sample exceeded holding times - rerun at lower dilution levels with results similar to those reported above.

Prepared by: de maximis

TABLE 3b
PAS OSWEGO SUPERFUND SITE

PAS LEACHATE METALS SAMPLING RESULTS*

	PAS LEACHATE COLLECTION WELLS: LCW-2 & LCW-4								Leachate Collection Tank			
	LCW-2 (LCW-1**)				LCW-4							
COMPOUND (PPM - mg/L)	Nov 06	May 07	Mar 08 (filt***)	Jun-08	Nov 06	May 07	Mar 08 (filt***)	Jun-08	Mar 08 Collection Tank (unfilt)	Mar 08 Collection Tank (filt***)	June 08 Collection Tank (unfilt)	June 08 Collection Tank (filt****)
Arsenic	0.012	0.013	0.023 (0.016)	0.016	0.015	0.016	0.0048	0.017	0.038	0.0058	0.021	0.019
Barium	0.23	0.19	0.35 (0.30)	0.24	0.68	0.52	0.37	0.65	1.1	0.36	0.61	0.59
Cadmium	ND	0.00057	0.0023 (0.00055)	ND	0.0019	ND	ND	ND	0.00086	ND	ND	ND
Chromium	0.0086	0.0075	0.0096 (0.023)	0.0075	0.027	0.021	0.019	0.024	0.038	0.02	0.02	0.021
Copper	0.017	0.058	0.035 (0.13)	0.072	0.0028	ND	ND	0.0034	0.067	ND	0.0088	0.025
Iron	3	2	15 (22)	6	65	53	54 (19)	59	100	1.5	44	41
Lead	ND	ND	0.0038 (0.0075)	0.0058	ND	ND	ND	ND	0.018	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	0.2	0.17	0.26 (0.15)	0.21	0.68	0.44	0.46	0.58	0.79	0.77	0.65	0.63
Selenium	ND	ND	ND	ND	ND	0.0032	ND	0.0023	0.0012	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	0.0054	0.013	0.0085 (0.050)	0.017	0.0022	ND	0.015	0.012	0.043	0.02	0.013	0.038

*Voluntary metals sampling - metals results included in laboratory data sheets

** LCW-1 results for March 2008 reported under LCW-2 column as both wells are in same collection trench.

*** Samples filtered in lab with 0.45 micron filter to remove suspended particulate.

****Samples filtered in field with 10 micron bag filter

TABLE 4

Tank Sediment Data

TABLE 4

PAS OSWEGO SUPERFUND SITE

PAS COLLECTION TANK SEDIMENT SAMPLING RESULTS*		
COMPOUND (PPM - mg/L)	***April 08 Collection Tank***	***TCLP Limit***
Arsenic	ND	5
Barium	0.9	100
Cadmium	ND	1
Chromium	ND	5
Lead	ND	5
Selenium	ND	5
Silver	ND	5
*Voluntary sampling for disposal VOC, SVOC, PCB and Pesticides ND		

Prepared by: *de maximis, inc.*

TABLE 5

Leachate Removal Quantities

TABLE 5

HISTORICAL LEACHATE REMOVAL SUMMARY (Gallons)
Pollution Abatement Services Superfund Site
Oswego, New York

	91 IGR Order			94 IGR Order					98 Consent Decree									
Month	1992	1993	1994	1994	1995	1996	1997	1998	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Jan		20,170	30,067		25,445	25,441	25,972	21,485		9,979	15,706	10,506	9,751	10,537	9,962	10,472	9,972	9,683	9,503
Feb	18,937	20,283	29,661		25,830	23,457	22,316	12,924		16,056	9,687	10,294	10,444	9,904	9,899	10,300	10,030	9,620	9,656
Mar	20,314	20,347	29,602		24,852	25,098	24,257	25,455		15,785	8,927	10,484	10,307	9,896	10,573	10,149	9,812	0	9,500
Apr	20,140	30,403	29,051		22,815	22,187	26,793	26,009		28,110	9,352	19,609	8,463	10,211	9,765	9,947	9,795	10,058	8,575
May	20,620	30,803	29,199		23,690	23,718	24,840	23,935		13,566	26,160	10,158	8,868	10,117	10,503	10,215	9,743	9,693	7,712
Jun	20,030	30,244	20,481		24,586	23,924	23,830	20,052		20,685	25,292	10,055	9,822	10,518	10,105	10,193	9,885	10,110	9,474
Jul	20,270	31,069	20,655		23,450	25,402	25,340	20,411		10,121	20,416	10,470	10,255	10,197	10,292	10,100	9,902	9,472	10,144
Aug	20,363	31,404	25,690		24,188	25,129	19,677	20,292		21,832	23,597	9,368	10,254	10,403	10,306	10,025	9,839	9,781	10,200
Sep	20,807	31,232	25,677		18,343	21,514	20,417	20,520		10,255	20,407	10,473	9,907	10,566	10,456	9,672	9,499	9,616	10,000
Oct	19,421	31,114	14,815	0	23,288	24,541	17,867	16,458		10,255	**17,563**	10,226	10,400	8,196	10,717	9,773	9,802	0	
Nov	20,409	30,239		25,562	20,133	20,589	18,564		8,185	10,250	**9,042**	9,355	10,435	9,908	10,486	9,987	9,692	9,497	
Dec	20,497	30,311		25,121	22,544	22,347	19,498		10,238	10,816	**10,463**	9,214	9,686	10,130	10,359	9,833	9,779	9,603	
Totals	221,808	337,619	254,898	50,683	279,164	283,347	269,371	207,541	18,423	177,710	196,613	130,212	118,592	120,583	123,423	120,666	117,750	97,133	84,764
Average Removal Per Month	20,164	28,135	25,490	16,894	23,264	23,612	22,448	20,754	9,212	14,809	16,384	10,851	9,883	10,049	10,285	10,056	9,813	8,094	9,418

SUMMARY:	TOTALS (GAL)	AVG RATE (GAL/MO)	
1991 IGR Order:	**814,325**	**23,951**	
1994 IGR Order:	**1,090,108**	**22,710**	
1998 C D:	**1,305,869**	**10,805**	(11/98 to present)
Total (To Date):	**3,210,300**		

1) Used CECOS - Niagara Falls for lechate treatment/disposal beginning in May 1996 - DuPont Deepwater used for treatment/disposal prior to May 96.

2) BBLES completed removal work at the end of July 2000; OBG began in August 2000.

3) Leachate collection well LCW4 pumped per 11/15/99 LCW4 pumping protocol as approved by EPA.

4) Leachate disposed at Clean Harbors facilities at Bristol CT from Mar05 to Oct07 and Baltimore MD from Nov07 to Jun07.

5) Leachate disposed at the Auburn Watewater Treatment Plant in Auburn, NY starting Jul 31 2008 to present.

TABLE 6

Pre-Pumping Monitoring Well Levels
June 2003 - June 2008

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
06/02/03

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	8.90	9.02	9.02	7.85 to 9.84	x		280.31	
SWW2	286.30	289.37	15.05	14.93	14.93	15.18 to 16.46		x	274.44	14.93
SWW3	286.00	286.50	16.63	16.58	16.58	16.52 to 17.70	x		269.92	
SWW4	282.90	283.60	14.15	14.35	14.35	12.92 to 15.75	x		269.25	
SWW5	275.90	277.02	13.28	12.95	12.95	12.78 to 14.08	x		264.07	
SWW6	270.90	273.06	8.65	8.52	8.52	7.46 to 9.18	x		264.54	
SWW7	273.30	277.93	7.71	7.61	7.61	7.40 to 8.74	x		270.32	
SWW8	275.70	278.24	4.37	4.11	4.11	3.38 to 4.72	x		274.13	
SWW9	283.30	285.55	16.39	16.30	16.30	16.65 to 18.30		x	269.25	16.30
SWW10	279.30	280.43	10.55	10.24	10.24	9.04 to 12.52	x		270.19	
SWW11	271.00	273.50	9.17	8.88	8.88	8.95 to 10.21		x	264.62	8.88
SWW12	270.20	272.82	9.00	8.78	8.78	7.86 to 9.50	x		264.04	
LCW-1	271.40	272.21	8.89	8.23	8.23	8.28 to 9.85		x	263.98	8.23
LCW-2	272.60	274.44	11.11	10.46	10.46	10.53 to 12.08		x	263.98	10.46
LCW-3	283.30	284.36	18.02	18.20	18.20	17.94 to 19.12	x		266.16	
LCW-4	283.80	285.70	17.96	17.54	17.54	17.92 to 19.43		x	268.16	17.54

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
06/16/03

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	8.90	9.46	9.46	7.85 to 9.84	x		279.87	
SWW2	286.30	289.37	15.05	15.02	15.02	15.18 to 16.46		x	274.35	15.02
SWW3	286.00	286.50	16.63	16.61	16.61	16.52 to 17.70	x		269.89	
SWW4	282.90	283.60	14.15	15.36	15.36	12.92 to 15.75	x		268.24	
SWW5	275.90	277.02	13.28	13.65	13.65	12.78 to 14.08	x		263.37	
SWW6	270.90	273.06	8.65	8.95	8.95	7.46 to 9.18	x		264.11	
SWW7	273.30	277.93	7.71	7.73	7.73	7.40 to 8.74	x		270.20	
SWW8	275.70	278.24	4.37	4.30	4.30	3.38 to 4.72	x		273.94	
SWW9	283.30	285.55	16.39	16.50	16.50	16.65 to 18.30		x	269.05	16.50
SWW10	279.30	280.43	10.55	11.94	11.94	9.04 to 12.52	x		268.49	
SWW11	271.00	273.50	9.17	9.40	9.40	8.95 to 10.21	x		264.10	
SWW12	270.20	272.82	9.00	9.13	9.13	7.86 to 9.50	x		263.69	
LCW-1	271.40	272.21	8.89	9.41	9.41	8.28 to 9.85	x		262.80	
LCW-2	272.60	274.44	11.11	11.66	11.66	10.53 to 12.08	x		262.78	
LCW-3	283.30	284.36	18.02	18.35	18.35	17.94 to 19.12	x		266.01	
LCW-4	283.80	285.70	17.96	17.25	17.25	17.92 to 19.43		x	268.45	17.25

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
07/07/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.46	10.15	10.15	7.85 to 9.84		x	279.18	10.15
SWW2	286.30	289.37	15.02	15.18	15.18	15.18 to 16.46			274.19	
SWW3	286.00	286.50	16.61	16.63	16.63	16.52 to 17.70	x		269.87	
SWW4	282.90	283.60	15.36	16.36	16.36	12.92 to 15.75		x	267.24	16.36
SWW5	275.90	277.02	13.65	13.25	13.25	12.78 to 14.08	x		263.77	
SWW6	270.90	273.06	8.95	9.62	9.62	7.46 to 9.18		x	263.44	9.62
SWW7	273.30	277.93	7.73	7.70	7.70	7.40 to 8.74	x		270.23	
SWW8	275.70	278.24	4.30	5.61	5.61	3.38 to 4.72		x	272.63	5.61
SWW9	283.30	285.55	16.50	16.75	16.75	16.65 to 18.30	x		268.80	
SWW10	279.30	280.43	11.94	13.25	13.25	9.04 to 12.52		x	267.18	13.25
SWW11	271.00	273.50	9.40	9.09	9.09	8.95 to 10.21	x		264.41	
SWW12	270.20	272.82	9.13	11.20	11.20	7.86 to 9.50		x	261.62	11.20
LCW-1	271.40	272.21	9.41	8.45	8.45	8.28 to 9.85	x		263.76	
LCW-2	272.60	274.44	11.66	10.69	10.69	10.53 to 12.08	x		263.75	
LCW-3	283.30	284.36	18.35	18.90	18.90	17.94 to 19.12	x		265.46	
LCW-4	283.80	285.70	17.25	16.99	16.99	17.92 to 19.43		x	268.71	16.99

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
07/21/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.46	10.43	10.43	7.85 to 9.84		x	278.90	10.43
SWW2	286.30	289.37	15.02	15.37	15.37	15.18 to 16.46	x		274.00	
SWW3	286.00	286.50	16.61	16.70	16.70	16.52 to 17.70	x		269.80	
SWW4	282.90	283.60	15.36	16.72	16.72	12.92 to 15.75		x	266.88	16.72
SWW5	275.90	277.02	13.65	13.68	13.68	12.78 to 14.08	x		263.34	
SWW6	270.90	273.06	8.95	9.75	9.75	7.46 to 9.18		x	263.31	9.75
SWW7	273.30	277.93	7.73	8.08	8.08	7.40 to 8.74	x		269.85	
SWW8	275.70	278.24	4.30	6.82	6.82	3.38 to 4.72		x	271.42	6.82
SWW9	283.30	285.55	16.50	17.08	17.08	16.65 to 18.30	x		268.47	
SWW10	279.30	280.43	11.94	14.18	14.18	9.04 to 12.52		x	266.25	14.18
SWW11	271.00	273.50	9.40	9.62	9.62	8.95 to 10.21	x		263.88	
SWW12	270.20	272.82	9.13	12.80	12.80	7.86 to 9.50		x	260.02	12.80
LCW-1	271.40	272.21	9.41	9.43	9.43	8.28 to 9.85	x		262.78	
LCW-2	272.60	274.44	11.66	11.67	11.67	10.53 to 12.08	x		262.77	
LCW-3	283.30	284.36	18.35	18.55	18.55	17.94 to 19.12	x		265.81	
LCW-4	283.80	285.70	17.25	16.82	16.82	17.92 to 19.43		x	268.88	16.82

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
08/04/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.43	10.58	10.58	8.40 to 9.96		x	278.75	10.58
SWW2	286.30	289.37	15.37	15.65	15.65	14.43 to 15.57		x	273.72	15.65
SWW3	286.00	286.50	16.70	16.76	16.76	16.08 to 17.21	x		269.74	
SWW4	282.90	283.60	16.72	16.55	16.55	13.65 to 15.86		x	267.05	16.55
SWW5	275.90	277.02	13.68	13.56	13.56	12.38 to 14.15	x		263.46	
SWW6	270.90	273.06	9.75	9.60	9.60	8.02 to 9.45		x	263.46	9.60
SWW7	273.30	277.93	8.08	8.30	8.30	7.11 to 8.23		x	269.63	8.30
SWW8	275.70	278.24	6.82	7.15	7.15	3.61 to 4.87		x	271.09	7.15
SWW9	283.30	285.55	17.08	17.45	17.45	15.80 to 17.00		x	268.10	17.45
SWW10	279.30	280.43	14.18	14.84	14.84	9.74 to 12.44		x	265.59	14.84
SWW11	271.00	273.50	9.62	9.62	9.62	8.37 to 9.90	x		263.88	
SWW12	270.20	272.82	12.80	13.45	13.45	8.28 to 9.63		x	259.37	13.45
LCW-1	271.40	272.21	9.43	8.90	8.90	7.65 to 9.91	x		263.31	
LCW-2	272.60	274.44	11.67	11.14	11.14	9.89 to 12.16	x		263.30	
LCW-3	283.30	284.36	18.55	18.75	18.75	17.52 to 18.97	x		265.61	
LCW-4	283.80	285.70	16.82	16.72	16.72	16.75 to 18.46		x	268.98	16.72
LR-2	287.50	289.85	13.92	15.22	15.22	13.42 to 15.82	x		274.63	
LR-3	275.50	278.06	8.70	10.34	10.34	8.20 to 11.82	x		267.72	
LR-6	270.90	274.39	10.80	11.94	11.94	10.30 to 13.41	x		262.45	
LR-8	270.00	273.42	10.71	11.98	11.98	10.21 to 13.10	x		261.44	
M-21	270.28	272.32	10.14	11.34	11.34	9.64 to 12.45	x		260.98	
M-22	270.40	273.88	10.50	11.62	11.62	10.00 to 13.10	x		262.26	
M-23	267.98	270.49	12.20	13.22	13.22	11.70 to 14.61	x		257.27	
M-24	276.49	277.94	15.22	16.40	16.40	14.72 to 17.26	x		261.54	
M-25	264.56	265.84	7.35	8.36	8.36	6.85 to 10.26	x		257.48	
M-26	271.85	273.38	10.27	12.10	12.10	9.77 to 15.28	x		261.28	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
08/18/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.43	10.62	10.62	8.40 to 9.96		x	278.71	10.62
SWW2	286.30	289.37	15.37	15.78	15.78	14.43 to 15.57		x	273.59	15.78
SWW3	286.00	286.50	16.70	16.86	16.86	16.08 to 17.21	x		269.64	
SWW4	282.90	283.60	16.72	16.97	16.97	13.65 to 15.86		x	266.63	16.97
SWW5	275.90	277.02	13.68	13.90	13.90	12.38 to 14.15	x		263.12	
SWW6	270.90	273.06	9.75	9.86	9.86	8.02 to 9.45		x	263.20	9.86
SWW7	273.30	277.93	8.08	8.50	8.50	7.11 to 8.23		x	269.43	8.50
SWW8	275.70	278.24	6.82	7.64	7.64	3.61 to 4.87		x	270.60	7.64
SWW9	283.30	285.55	17.08	17.78	17.78	15.80 to 17.00		x	267.77	17.78
SWW10	279.30	280.43	14.18	15.23	15.23	9.74 to 12.44		x	265.20	15.23
SWW11	271.00	273.50	9.62	9.92	9.92	8.37 to 9.90		x	263.58	9.92
SWW12	270.20	272.82	12.80	13.75	13.75	8.28 to 9.63		x	259.07	13.75
LCW-1	271.40	272.21	9.43	9.32	9.32	7.65 to 9.91	x		262.89	
LCW-2	272.60	274.44	11.67	11.57	11.57	9.89 to 12.16	x		262.87	
LCW-3	283.30	284.36	18.55	18.48	18.48	17.52 to 18.97	x		265.88	
LCW-4	283.80	285.70	16.82	17.42	17.42	16.75 to 18.46	x		268.28	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
09/08/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.62	10.90	10.90	8.40 to 9.96		x	278.43	10.90
SWW2	286.30	289.37	15.78	16.16	16.16	14.43 to 15.57		x	273.21	16.16
SWW3	286.00	286.50	16.86	17.06	17.06	16.08 to 17.21	x		269.44	
SWW4	282.90	283.60	16.97	17.28	17.28	13.65 to 15.86		x	266.32	17.28
SWW5	275.90	277.02	13.90	13.65	13.65	12.38 to 14.15	x		263.37	
SWW6	270.90	273.06	9.86	10.03	10.03	8.02 to 9.45		x	263.03	10.03
SWW7	273.30	277.93	8.50	8.81	8.81	7.11 to 8.23		x	269.12	8.81
SWW8	275.70	278.24	7.64	9.14	9.14	3.61 to 4.87		x	269.10	9.14
SWW9	283.30	285.55	17.78	18.28	18.28	15.80 to 17.00		x	267.27	18.28
SWW10	279.30	280.43	15.23	16.31	16.31	9.74 to 12.44		x	264.12	16.31
SWW11	271.00	273.50	9.92	9.98	9.98	8.37 to 9.90		x	263.52	9.98
SWW12	270.20	272.82	13.75	15.17	15.17	8.28 to 9.63		x	257.65	15.17
LCW-1	271.40	272.21	9.32	8.80	8.80	7.65 to 9.91	x		263.41	
LCW-2	272.60	274.44	11.57	11.04	11.04	9.89 to 12.16	x		263.40	
LCW-3	283.30	284.36	18.48	18.84	18.84	17.52 to 18.97	x		265.52	
LCW-4	283.80	285.70	17.42	17.11	17.11	16.75 to 18.46	x		268.59	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
09/22/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range?		Ground-Water Elevation	Reading 3
							Yes	No		
SWW1	286.20	289.33	10.62	11.14	11.14	8.40 to 9.96		x	278.19	11.14
SWW2	286.30	289.37	15.78	16.37	16.37	14.43 to 15.57		x	273.00	16.37
SWW3	286.00	286.50	16.86	17.18	17.18	16.08 to 17.21	x		269.32	
SWW4	282.90	283.60	16.97	17.35	17.35	13.65 to 15.86		x	266.25	17.35
SWW5	275.90	277.02	13.90	13.95	13.95	12.38 to 14.15	x		263.07	
SWW6	270.90	273.06	9.86	10.03	10.03	8.02 to 9.45		x	263.03	10.03
SWW7	273.30	277.93	8.50	8.90	8.90	7.11 to 8.23		x	269.03	8.90
SWW8	275.70	278.24	7.64	9.79	9.79	3.61 to 4.87		x	268.45	9.79
SWW9	283.30	285.55	17.78	18.65	18.65	15.80 to 17.00		x	266.90	18.65
SWW10	279.30	280.43	15.23	17.16	17.16	9.74 to 12.44		x	263.27	17.16
SWW11	271.00	273.50	9.92	10.27	10.27	8.37 to 9.90		x	263.23	10.27
SWW12	270.20	272.82	13.75	15.84	15.84	8.28 to 9.63		x	256.98	15.84
LCW-1	271.40	272.21	9.32	9.42	9.42	7.65 to 9.91	x		262.79	
LCW-2	272.60	274.44	11.57	11.68	11.68	9.89 to 12.16	x		262.76	
LCW-3	283.30	284.36	18.48	18.60	18.60	17.52 to 18.97	x		265.76	
LCW-4	283.80	285.70	17.42	17.64	17.64	16.75 to 18.46	x		268.06	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
10/06/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	11.14	10.88	10.88	8.40 to 9.96		x	278.45	10.88
SWW2	286.30	289.37	16.37	16.60	16.60	14.43 to 15.57		x	272.77	16.60
SWW3	286.00	286.50	17.18	17.30	17.30	16.08 to 17.21		x	269.20	17.30
SWW4	282.90	283.60	17.35	16.84	16.84	13.65 to 15.86		x	266.76	16.84
SWW5	275.90	277.02	13.95	13.90	13.90	12.38 to 14.15	x		263.12	
SWW6	270.90	273.06	10.03	9.64	9.64	8.02 to 9.45		x	263.42	9.64
SWW7	273.30	277.93	8.90	9.22	9.22	7.11 to 8.23		x	268.71	9.22
SWW8	275.70	278.24	9.79	9.81	9.81	3.61 to 4.87		x	268.43	9.81
SWW9	283.30	285.55	18.65	18.04	18.04	15.80 to 17.00		x	267.51	18.04
SWW10	279.30	280.43	17.16	17.44	17.44	9.74 to 12.44		x	262.99	17.44
SWW11	271.00	273.50	10.27	10.38	10.38	8.37 to 9.90		x	263.12	10.38
SWW12	270.20	272.82	15.84	15.50	15.50	8.28 to 9.63		x	257.32	15.50
LCW-1	271.40	272.21	9.42	9.08	9.08	7.65 to 9.91	x		263.13	
LCW-2	272.60	274.44	11.68	11.32	11.32	9.89 to 12.16	x		263.12	
LCW-3	283.30	284.36	18.60	18.85	18.85	17.52 to 18.97	x		265.51	
LCW-4	283.80	285.70	17.64	17.43	17.43	16.75 to 18.46	x		268.27	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
10/20/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	11.14	10.50	10.50	8.40 to 9.96		x	278.83	10.50
SWW2	286.30	289.37	16.37	16.62	16.62	14.43 to 15.57		x	272.75	16.62
SWW3	286.00	286.50	17.18	17.38	17.38	16.08 to 17.21		x	269.12	17.38
SWW4	282.90	283.60	17.35	16.30	16.30	13.65 to 15.86		x	267.30	16.30
SWW5	275.90	277.02	13.95	13.89	13.89	12.38 to 14.15	x		263.13	
SWW6	270.90	273.06	10.03	9.32	9.32	8.02 to 9.45	x		263.74	
SWW7	273.30	277.93	8.90	9.12	9.12	7.11 to 8.23		x	268.81	9.12
SWW8	275.70	278.24	9.79	7.73	7.73	3.61 to 4.87		x	270.51	7.73
SWW9	283.30	285.55	18.65	19.24	19.24	15.80 to 17.00		x	266.31	19.24
SWW10	279.30	280.43	17.16	16.58	16.58	9.74 to 12.44		x	263.85	16.58
SWW11	271.00	273.50	10.27	10.35	10.35	8.37 to 9.90		x	263.15	10.35
SWW12	270.20	272.82	15.84	14.72	14.72	8.28 to 9.63		x	258.10	14.72
LCW-1	271.40	272.21	9.42	9.20	9.20	7.65 to 9.91	x		263.01	
LCW-2	272.60	274.44	11.68	11.43	11.43	9.89 to 12.16	x		263.01	
LCW-3	283.30	284.36	18.60	18.70	18.70	17.52 to 18.97	x		265.66	
LCW-4	283.80	285.70	17.64	17.70	17.70	16.75 to 18.46	x		268.00	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
11/03/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.50	9.80	9.80	10.08 to 11.38		x	279.53	9.80
SWW2	286.30	289.37	16.62	16.50	16.50	15.15 to 17.12	x		272.87	
SWW3	286.00	286.50	17.38	17.25	17.25	16.26 to 17.88	x		269.25	
SWW4	282.90	283.60	16.30	14.80	14.80	16.05 to 17.47		x	268.80	14.80
SWW5	275.90	277.02	13.89	13.45	13.45	13.06 to 14.40	x		263.57	
SWW6	270.90	273.06	9.32	8.65	8.65	9.10 to 10.36		x	264.41	8.65
SWW7	273.30	277.93	9.12	8.58	8.85	7.80 to 9.72	x		269.08	
SWW8	275.70	278.24	7.73	5.25	5.27	6.65 to 10.31		x	272.97	5.27
SWW9	283.30	285.55	19.24	17.50	17.50	16.95 to 19.74	x		268.05	
SWW10	279.30	280.43	16.58	11.68	11.68	14.34 to 17.94		x	268.75	11.68
SWW11	271.00	273.50	10.35	9.80	9.80	9.12 to 10.88	x		263.70	
SWW12	270.20	272.82	14.72	12.30	12.30	12.95 to 16.00		x	260.52	12.30
LCW-1	271.40	272.21	9.20	8.87	8.87	8.40 to 9.82	x		263.34	
LCW-2	272.60	274.44	11.43	11.11	11.11	10.64 to 12.07	x		263.33	
LCW-3	283.30	284.36	18.70	18.80	18.80	17.98 to 19.35	x		265.56	
LCW-4	283.80	285.70	17.70	17.52	17.52	16.22 to 18.20	x		268.18	
LR-2	287.50	289.85	15.22	14.50	14.50	13.42 to 15.72	x		275.35	
LR-3	275.50	278.06	10.34	9.17	9.17	8.20 to 11.30	x		268.89	
LR-6	270.90	274.39	11.94	11.08	11.08	10.30 to 12.60	x		263.31	
LR-8	270.00	273.42	11.98	11.50	11.50	10.21 to 13.10	x		261.92	
M-21	270.28	272.32	11.34	11.12	11.12	9.64 to 12.35	x		261.20	
M-22	270.40	273.88	11.62	11.00	11.00	10.00 to 12.25	x		262.88	
M-23	267.98	270.49	13.22	12.35	12.35	11.70 to 13.72	x		258.14	
M-24	276.49	277.94	16.40	15.80	15.80	14.72 to 17.11	x		262.14	
M-25	264.56	265.84	8.36	7.55	7.55	6.85 to 8.86	x		258.29	
M-26	271.85	273.38	12.10	10.02	10.02	9.77 to 12.60	x		263.36	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
11/17/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.50	9.54	9.54	10.08 to 11.38		x	279.79	9.54
SWW2	286.30	289.37	16.62	16.33	16.33	15.15 to 17.12	x		273.04	
SWW3	286.00	286.50	17.38	17.12	17.12	16.26 to 17.88	x		269.38	
SWW4	282.90	283.60	16.30	14.62	14.62	16.05 to 17.47		x	268.98	14.62
SWW5	275.90	277.02	13.89	13.74	13.74	13.06 to 14.40	x		263.28	
SWW6	270.90	273.06	9.32	8.70	8.70	9.10 to 10.36		x	264.36	8.70
SWW7	273.30	277.93	9.12	8.68	8.68	7.80 to 9.72	x		269.25	
SWW8	275.70	278.24	7.73	4.46	4.46	6.65 to 10.31		x	273.78	4.46
SWW9	283.30	285.55	19.24	18.68	18.68	16.95 to 19.74	x		266.87	
SWW10	279.30	280.43	16.58	11.20	11.20	14.34 to 17.94		x	269.23	11.20
SWW11	271.00	273.50	10.35	10.00	10.00	9.12 to 10.88	x		263.50	
SWW12	270.20	272.82	14.72	10.46	10.46	12.95 to 16.00		x	262.36	10.46
LCW-1	271.40	272.21	9.20	9.40	9.40	8.40 to 9.82	x		262.81	
LCW-2	272.60	274.44	11.43	11.62	11.62	10.64 to 12.07	x		262.82	
LCW-3	283.30	284.36	18.70	18.55	18.55	17.98 to 19.35	x		265.81	
LCW-4	283.80	285.70	17.70	18.18	18.18	16.22 to 18.20	x		267.52	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
12/01/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.54	8.40	8.40	10.08 to 11.38		x	280.93	8.40
SWW2	286.30	289.37	16.33	16.00	16.00	15.15 to 17.12	x		273.37	
SWW3	286.00	286.50	17.12	16.85	16.85	16.26 to 17.88	x		269.65	
SWW4	282.90	283.60	14.62	12.55	12.55	16.05 to 17.47		x	271.05	12.55
SWW5	275.90	277.02	13.74	13.21	13.21	13.06 to 14.40	x		263.81	
SWW6	270.90	273.06	8.70	8.08	8.08	9.10 to 10.36		x	264.98	8.08
SWW7	273.30	277.93	8.68	8.40	8.40	7.80 to 9.72	x		269.53	
SWW8	275.70	278.24	4.46	4.28	4.28	6.65 to 10.31		x	273.96	4.28
SWW9	283.30	285.55	18.68	18.06	18.06	16.95 to 19.74	x		267.49	
SWW10	279.30	280.43	11.20	9.74	9.74	14.34 to 17.94		x	270.69	9.74
SWW11	271.00	273.50	10.00	9.56	9.56	9.12 to 10.88	x		263.94	
SWW12	270.20	272.82	10.46	8.74	8.74	12.95 to 16.00		x	264.08	8.74
LCW-1	271.40	272.21	9.40	8.80	8.80	8.40 to 9.82	x		263.41	
LCW-2	272.60	274.44	11.62	11.02	11.02	10.64 to 12.07	x		263.42	
LCW-3	283.30	284.36	18.55	18.60	18.60	17.98 to 19.35	x		265.76	
LCW-4	283.80	285.70	18.18	17.82	17.82	16.22 to 18.20	x		267.88	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
12/15/2003

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.54	8.73	8.73	10.08 to 11.38		x	280.60	8.73
SWW2	286.30	289.37	16.33	15.86	15.86	15.15 to 17.12	x		273.51	
SWW3	286.00	286.50	17.12	16.82	16.82	16.26 to 17.88	x		269.68	
SWW4	282.90	283.60	14.62	13.90	13.90	16.05 to 17.47		x	269.70	13.90
SWW5	275.90	277.02	13.74	13.25	13.25	13.06 to 14.40	x		263.77	
SWW6	270.90	273.06	8.70	8.40	8.40	9.10 to 10.36		x	264.66	8.40
SWW7	273.30	277.93	8.68	8.28	8.28	7.80 to 9.72	x		269.65	
SWW8	275.70	278.24	4.46	4.22	4.22	6.65 to 10.31		x	274.02	4.22
SWW9	283.30	285.55	18.68	17.68	17.68	16.95 to 19.74	x		267.87	
SWW10	279.30	280.43	11.20	10.15	10.15	14.34 to 17.94		x	270.28	10.15
SWW11	271.00	273.50	10.00	9.54	9.54	9.12 to 10.88	x		263.96	
SWW12	270.20	272.82	10.46	8.85	8.85	12.95 to 16.00		x	263.97	8.85
LCW-1	271.40	272.21	9.40	9.06	9.06	8.40 to 9.82	x		263.15	
LCW-2	272.60	274.44	11.62	11.33	11.33	10.64 to 12.07	x		263.11	
LCW-3	283.30	284.36	18.55	18.21	18.21	17.98 to 19.35	x		266.15	
LCW-4	283.80	285.70	18.18	18.28	18.28	16.22 to 18.20		x	267.42	18.28

Pre-Pumping Monitoring Well Levels
01/05/04
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation
SWW1	286.20	289.33	8.73	8.26	8.26	10.08 to 11.38		x	281.07
SWW2	286.30	289.37	15.86	15.52	15.52	15.15 to 17.12	x		273.85
SWW3	286.00	286.50	16.82	16.60	16.60	16.26 to 17.88	x		269.90
SWW4	282.90	283.60	13.90	13.48	13.48	16.05 to 17.47		x	270.12
SWW5	275.90	277.02	13.25	12.75	12.75	13.06 to 14.40		x	264.27
SWW6	270.90	273.06	8.40	8.18	8.18	9.10 to 10.36		x	264.88
SWW7	273.30	277.93	8.28	7.88	7.88	7.80 to 9.72	x		270.05
SWW8	275.70	278.24	4.22	4.05	4.05	6.65 to 10.31		x	274.19
SWW9	283.30	285.55	17.68	17.08	17.08	16.95 to 19.74	x		268.47
SWW10	279.30	280.43	10.15	9.90	9.90	14.34 to 17.94		x	270.53
SWW11	271.00	273.50	9.54	9.02	9.02	9.12 to 10.88		x	264.48
SWW12	270.20	272.82	8.85	8.61	8.61	12.95 to 16.00		x	264.21
LCW-1	271.40	272.21	9.06	8.30	8.30	8.40 to 9.82		x	263.91
LCW-2	272.60	274.44	11.33	10.55	10.55	10.64 to 12.07		x	263.89
LCW-3	283.30	284.36	18.21	18.22	18.22	17.98 to 19.35	x		266.14
LCW-4	283.80	285.70	18.28	17.76	17.76	16.22 to 18.20	x		267.94

Pre-Pumpir onitoring Well Levels
01/19/04
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation
SWW1	286.20	289.33	8.73	9.06	9.06	10.08 to 11.38		x	280.27
SWW2	286.30	289.37	15.86	15.60	15.60	15.15 to 17.12	x		273.77
SWW3	286.00	286.50	16.82	16.80	16.80	16.26 to 17.88	x		269.70
SWW4	282.90	283.60	13.90	15.05	15.05	16.05 to 17.47		x	268.55
SWW5	275.90	277.02	13.25	13.11	13.11	13.06 to 14.40	x		263.91
SWW6	270.90	273.06	8.40	8.90	8.90	9.10 to 10.36		x	264.16
SWW7	273.30	277.93	8.28	8.06	8.06	7.80 to 9.72	x		269.87
SWW8	275.70	278.24	4.22	4.32	4.32	6.65 to 10.31		x	273.92
SWW9	283.30	285.55	17.68	17.42	17.42	16.95 to 19.74	x		268.13
SWW10	279.30	280.43	10.15	11.48	11.48	14.34 to 17.94		x	268.95
SWW11	271.00	273.50	9.54	9.22	9.22	9.12 to 10.88	x		264.28
SWW12	270.20	272.82	8.85	9.10	9.10	12.95 to 16.00		x	263.72
LCW-1	271.40	272.21	9.06	8.63	8.63	8.40 to 9.82	x		263.58
LCW-2	272.60	274.44	11.33	10.88	10.88	10.64 to 12.07	x		263.56
LCW-3	283.30	284.36	18.21	18.22	18.22	17.98 to 19.35	x		266.14
LCW-4	283.80	285.70	18.28	18.15	18.15	16.22 to 18.20	x		267.55

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
02/02/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.06	9.65	9.65	7.76 to 10.30	x		279.68	
SWW2	286.30	289.37	15.60	15.84	15.84	15.02 to 17.00	x		273.53	
SWW3	286.00	286.50	16.80	17.00	17.00	16.10 to 17.75	x		269.50	
SWW4	282.90	283.60	15.05	15.58	15.58	12.98 to 15.55		x	268.02	15.58
SWW5	275.90	277.02	13.11	13.22	13.22	12.25 to 14.24	x		263.80	
SWW6	270.90	273.06	8.90	8.90	8.90	7.68 to 9.40	x		264.16	
SWW7	273.30	277.93	8.06	8.30	8.30	7.38 to 9.18	x		269.63	
SWW8	275.70	278.24	4.32	4.30	4.30	3.55 to 5.75	x		273.94	
SWW9	283.30	285.55	17.42	17.12	17.12	16.58 to 19.18	x		268.43	
SWW10	279.30	280.43	11.48	12.40	12.40	9.40 to 12.18		x	268.03	12.40
SWW11	271.00	273.50	9.22	9.16	9.16	8.52 to 10.50	x		264.34	
SWW12	270.20	272.82	9.10	9.20	9.20	8.11 to 12.80	x		263.62	
LCW-1	271.40	272.21	8.63	8.23	8.23	7.80 to 9.90	x		263.98	
LCW-2	272.60	274.44	10.88	10.45	10.45	10.05 to 12.12	x		263.99	
LCW-3	283.30	284.36	18.22	18.45	18.45	17.72 to 19.30	x		265.91	
LCW-4	283.80	285.70	18.15	17.88	17.88	17.02 to 18.68	x		267.82	
LR-2	287.50	289.85	14.50	14.11	14.11	13.42 to 15.72	x		275.74	
LR-3	275.50	278.06	9.17	8.68	8.68	8.20 to 10.84	x		269.38	
LR-6	270.90	274.39	11.08	10.82	10.82	10.30 to 12.44	x		263.57	
LR-8	270.00	273.42	11.50	11.00	11.00	10.21 to 12.48	x		262.42	
M-21	270.28	272.32	11.42	10.44	10.44	9.64 to 11.84	x		261.88	
M-22	270.40	273.88	11.00	10.51	10.51	10.00 to 12.12	x		263.37	
M-23	267.98	270.49	12.35	12.23	12.23	11.70 to 13.72	x		258.26	
M-24	276.49	277.94	15.80	15.58	15.58	14.72 to 16.90	x		262.36	
M-25	264.56	265.84	7.55	7.35	7.35	6.85 to 8.86	x		258.49	
M-26	271.85	273.38	10.02	10.94	10.94	9.52 to 12.60	x		262.44	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
02/16/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.06	9.55	9.55	7.76 to 10.30	x		279.78	
SWW2	286.30	289.37	15.60	16.08	16.08	15.02 to 17.00	x		273.29	
SWW3	286.00	286.50	16.80	17.10	17.10	16.10 to 17.75	x		269.40	
SWW4	282.90	283.60	15.05	15.38	15.38	12.98 to 15.55	x		268.22	
SWW5	275.90	277.02	13.11	13.00	13.00	12.25 to 14.24	x		264.02	
SWW6	270.90	273.06	8.90	8.82	8.82	7.68 to 9.40	x		264.24	
SWW7	273.30	277.93	8.06	8.25	8.25	7.38 to 9.18	x		269.68	
SWW8	275.70	278.24	4.32	4.27	4.27	3.55 to 5.75	x		273.97	
SWW9	283.30	285.55	17.42	17.12	17.12	16.58 to 19.18	x		268.43	
SWW10	279.30	280.43	11.48	11.93	11.93	9.40 to 12.18	x		268.50	
SWW11	271.00	273.50	9.22	9.14	9.14	8.52 to 10.50	x		264.36	
SWW12	270.20	272.82	9.10	9.05	9.05	8.11 to 12.80	x		263.77	
LCW-1	271.40	272.21	8.63	10.30	10.30	7.80 to 9.90		x	261.91	10.30
LCW-2	272.60	274.44	10.88	12.55	12.55	10.05 to 12.12		x	261.89	12.55
LCW-3	283.30	284.36	18.22	18.30	18.30	17.72 to 19.30	x		266.06	
LCW-4	283.80	285.70	18.15	17.60	17.60	17.02 to 18.68	x		268.10	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
03/01/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.55	9.02	9.02	7.76 to 10.30	x		280.31	
SWW2	286.30	289.37	16.08	15.71	15.71	15.02 to 17.00	x		273.66	
SWW3	286.00	286.50	17.10	17.00	17.00	16.10 to 17.75	x		269.50	
SWW4	282.90	283.60	15.38	14.98	14.98	12.98 to 15.55	x		268.62	
SWW5	275.90	277.02	13.00	13.32	13.32	12.25 to 14.24	x		263.70	
SWW6	270.90	273.06	8.82	8.68	8.68	7.68 to 9.40	x		264.38	
SWW7	273.30	277.93	8.25	8.03	8.03	7.38 to 9.18	x		269.90	
SWW8	275.70	278.24	4.27	4.10	4.10	3.55 to 5.75	x		274.14	
SWW9	283.30	285.55	17.12	16.94	16.94	16.58 to 19.18	x		268.61	
SWW10	279.30	280.43	11.93	10.38	10.38	9.40 to 12.18	x		270.05	
SWW11	271.00	273.50	9.14	9.28	9.28	8.52 to 10.50	x		264.22	
SWW12	270.20	272.82	9.05	8.77	8.77	8.11 to 12.80	x		264.05	
LCW-1	271.40	272.21	10.30	9.00	9.00	7.80 to 9.90	x		263.21	
LCW-2	272.60	274.44	12.55	11.22	11.22	10.05 to 12.12	x		263.22	
LCW-3	283.30	284.36	18.30	18.53	18.53	17.72 to 19.30	x		265.83	
LCW-4	283.80	285.70	17.60	17.38	17.38	17.02 to 18.68	x		268.32	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
03/15/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.55	8.30	8.30	7.76 to 10.30	x		281.03	
SWW2	286.30	289.37	16.08	15.42	15.42	15.02 to 17.00	x		273.95	
SWW3	286.00	286.50	17.10	16.60	16.60	16.10 to 17.75	x		269.90	
SWW4	282.90	283.60	15.38	14.02	14.02	12.98 to 15.55	x		269.58	
SWW5	275.90	277.02	13.00	13.38	13.38	12.25 to 14.24	x		263.64	
SWW6	270.90	273.06	8.82	8.52	8.52	7.68 to 9.40	x		264.54	
SWW7	273.30	277.93	8.25	7.88	7.88	7.38 to 9.18	x		270.05	
SWW8	275.70	278.24	4.27	4.08	4.08	3.55 to 5.75	x		274.16	
SWW9	283.30	285.55	17.12	16.65	16.65	16.58 to 19.18	x		268.90	
SWW10	279.30	280.43	11.93	10.42	10.42	9.40 to 12.18	x		270.01	
SWW11	271.00	273.50	9.14	9.40	9.40	8.52 to 10.50	x		264.10	
SWW12	270.20	272.82	9.05	8.80	8.80	8.11 to 12.80	x		264.02	
LCW-1	271.40	272.21	10.30	9.34	9.34	7.80 to 9.90	x		262.87	
LCW-2	272.60	274.44	12.55	11.57	11.57	10.05 to 12.12	x		262.87	
LCW-3	283.30	284.36	18.30	18.22	18.22	17.72 to 19.30	x		266.14	
LCW-4	283.80	285.70	17.60	17.88	17.88	17.02 to 18.68	x		267.82	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
04/05/04
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation
SWW1	286.20	289.33	9.65	8.31	8.31	7.76 to 10.30	x		281.02
SWW2	286.30	289.37	15.84	15.12	15.12	15.02 to 17.00	x		274.25
SWW3	286.00	286.50	17.00	16.50	16.50	16.10 to 17.75	x		270.00
SWW4	282.90	283.60	15.58	13.58	13.58	12.98 to 15.55	x		270.02
SWW5	275.90	277.02	13.22	12.95	12.95	12.25 to 14.24	x		264.07
SWW6	270.90	273.06	8.90	8.25	8.25	7.68 to 9.40	x		264.81
SWW7	273.30	277.93	8.30	7.70	7.70	7.38 to 9.18	x		270.23
SWW8	275.70	278.24	4.30	3.98	3.98	3.55 to 5.75	x		274.26
SWW9	283.30	285.55	17.12	16.35	16.35	16.58 to 19.18		x	269.20
SWW10	279.30	280.43	12.40	9.65	9.65	9.40 to 12.18	x		270.78
SWW11	271.00	273.50	9.16	8.93	8.93	8.52 to 10.50	x		264.57
SWW12	270.20	272.82	9.20	8.55	8.55	8.11 to 12.80	x		264.27
LCW-1	271.40	272.21	8.23	8.30	8.30	7.80 to 9.90	x		263.91
LCW-2	272.60	274.44	10.45	10.54	10.54	10.05 to 12.12	x		263.90
LCW-3	283.30	284.36	18.45	18.26	18.26	17.72 to 19.30	x		266.10
LCW-4	283.80	285.70	17.88	17.40	17.40	17.02 to 18.68	x		268.30

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
04/19/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.65	8.54	8.54	7.76 to 10.30	x		280.79	
SWW2	286.30	289.37	15.84	15.08	15.08	15.02 to 17.00	x		274.29	
SWW3	286.00	286.50	17.00	16.36	16.36	16.10 to 17.75	x		270.14	
SWW4	282.90	283.60	15.58	13.80	13.80	12.98 to 15.55	x		269.80	
SWW5	275.90	277.02	13.22	13.12	13.12	12.25 to 14.24	x		263.90	
SWW6	270.90	273.06	8.90	8.30	8.30	7.68 to 9.40	x		264.76	
SWW7	273.30	277.93	8.30	7.50	7.50	7.38 to 9.18	x		270.43	
SWW8	275.70	278.24	4.30	4.02	4.02	3.55 to 5.75	x		274.22	
SWW9	283.30	285.55	17.12	16.15	16.15	16.58 to 19.18		x	269.40	16.15
SWW10	279.30	280.43	12.40	9.85	9.85	9.40 to 12.18	x		270.58	
SWW11	271.00	273.50	9.16	9.06	9.06	8.52 to 10.50	x		264.44	
SWW12	270.20	272.82	9.20	8.58	8.58	8.11 to 12.80	x		264.24	
LCW-1	271.40	272.21	8.23	9.18	9.18	7.80 to 9.90	x		263.03	
LCW-2	272.60	274.44	10.45	11.42	11.42	10.05 to 12.12	x		263.02	
LCW-3	283.30	284.36	18.45	18.30	18.30	17.72 to 19.30	x		266.06	
LCW-4	283.80	285.70	17.88	17.12	17.12	17.02 to 18.68	x		268.58	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
05/03/04
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	8.54	9.02	9.02	7.80 to 10.15	x		280.31	
SWW2	286.30	289.37	15.08	14.95	14.95	14.92 to 16.58	x		274.42	
SWW3	286.00	286.50	16.36	16.47	16.47	16.10 to 17.60	x		270.03	
SWW4	282.90	283.60	13.80	14.85	14.85	13.52 to 16.08	x		268.75	
SWW5	275.90	277.02	13.12	13.12	13.12	12.50 to 13.82	x		263.90	
SWW6	270.90	273.06	8.30	8.72	8.72	8.02 to 9.40	x		264.34	
SWW7	273.30	277.93	7.50	7.68	7.68	7.38 to 8.80	x		270.25	
SWW8	275.70	278.24	4.02	3.95	3.95	3.58 to 4.82	x		274.29	
SWW9	283.30	285.55	16.15	16.28	16.28	16.15 to 17.92	x		269.27	
SWW10	279.30	280.43	9.85	11.24	11.24	9.88 to 12.90	x		269.19	
SWW11	271.00	273.50	9.06	8.94	8.94	8.64 to 9.78	x		264.56	
SWW12	270.20	272.82	8.58	8.68	8.68	8.27 to 9.70	x		264.14	
LCW-1	271.40	272.21	9.18	8.40	8.40	7.73 to 10.80	x		263.81	
LCW-2	272.60	274.44	11.42	10.66	10.66	9.95 to 13.05	x		263.78	
LCW-3	283.30	284.36	18.30	18.41	18.41	17.72 to 19.03	x		265.95	
LCW-4	283.80	285.70	17.12	16.86	16.86	16.88 to 18.65		x	268.84	16.86
LR-2	287.50	289.85	14.11	13.68	13.68	13.42 to 15.72	x		276.17	
LR-3	275.50	278.06	8.68	8.20	8.20	8.18 to 10.84	x		269.86	
LR-6	270.90	274.39	10.82	10.41	10.41	10.30 to 12.44	x		263.98	
LR-8	270.00	273.42	11.00	10.37	10.37	10.21 to 12.48	x		263.05	
M-21	270.28	272.32	10.44	9.81	9.81	9.64 to 11.84	x		262.51	
M-22	270.40	273.88	10.51	10.11	10.11	10.00 to 12.12	x		263.77	
M-23	267.98	270.49	12.23	11.75	11.75	11.70 to 13.72	x		258.74	
M-24	276.49	277.94	15.58	14.59	14.59	14.72 to 16.90		x	263.35	14.59
M-25	264.56	265.84	7.35	6.75	6.75	6.85 to 8.86		x	259.09	6.75
M-26	271.85	273.38	10.94	9.08	9.08	9.52 to 12.60		x	264.30	9.08

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
05/17/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	8.54	9.51	9.51	7.80 to 10.15	x		279.82	
SWW2	286.30	289.37	15.08	15.06	15.06	14.92 to 16.58	x		274.31	
SWW3	286.00	286.50	16.36	16.55	16.55	16.10 to 17.60	x		269.95	
SWW4	282.90	283.60	13.80	15.45	15.45	13.52 to 16.08	x		268.15	
SWW5	275.90	277.02	13.12	13.10	13.10	12.50 to 13.82	x		263.92	
SWW6	270.90	273.06	8.30	9.11	9.11	8.02 to 9.40	x		263.95	
SWW7	273.30	277.93	7.50	7.74	7.74	7.38 to 8.80	x		270.19	
SWW8	275.70	278.24	4.02	4.42	4.42	3.58 to 4.82	x		273.82	
SWW9	283.30	285.55	16.15	16.43	16.43	16.15 to 17.92	x		269.12	
SWW10	279.30	280.43	9.85	12.08	12.08	9.88 to 12.90	x		268.35	
SWW11	271.00	273.50	9.06	8.84	8.84	8.64 to 9.78	x		264.66	
SWW12	270.20	272.82	8.58	9.23	9.23	8.27 to 9.70	x		263.59	
LCW-1	271.40	272.21	9.18	8.30	8.30	7.73 to 10.80	x		263.91	
LCW-2	272.60	274.44	11.42	10.55	10.55	9.95 to 13.05	x		263.89	
LCW-3	283.30	284.36	18.30	18.36	18.36	17.72 to 19.03	x		266.00	
LCW-4	283.80	285.70	17.12	17.18	17.18	16.88 to 18.65	x		268.52	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
06/07/04
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Ever	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.51	9.70	9.70	7.80 to 10.15	x		279.63	
SWW2	286.30	289.37	15.06	15.08	15.08	14.92 to 16.58	x		274.29	
SWW3	286.00	286.50	16.55	16.46	16.46	16.10 to 17.60	x		270.04	
SWW4	282.90	283.60	15.45	15.48	15.48	13.52 to 16.08	x		268.12	
SWW5	275.90	277.02	13.10	12.58	12.58	12.50 to 13.82	x		264.44	
SWW6	270.90	273.06	9.11	9.22	9.22	8.02 to 9.40	x		263.84	
SWW7	273.30	277.93	7.74	7.76	7.76	7.38 to 8.80	x		270.17	
SWW8	275.70	278.24	4.42	4.63	4.63	3.58 to 4.82	x		273.61	
SWW9	283.30	285.55	16.43	16.40	16.40	16.15 to 17.92	x		269.15	
SWW10	279.30	280.43	12.08	11.96	11.96	9.88 to 12.90	x		268.47	
SWW11	271.00	273.50	8.84	8.53	8.53	8.64 to 9.78		x	264.97	8.53
SWW12	270.20	272.82	9.23	9.62	9.62	8.27 to 9.70	x		263.20	
LCW-1	271.40	272.21	8.30	7.70	7.70	7.73 to 10.80		x	264.51	7.70
LCW-2	272.60	274.44	10.55	9.95	9.95	9.95 to 13.05			264.49	
LCW-3	283.30	284.36	18.36	18.47	18.47	17.72 to 19.03	x		265.89	
LCW-4	283.80	285.70	17.18	16.85	19.85	16.88 to 18.65		x	265.85	19.85

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
06/21/04
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.51	10.14	10.14	7.80 to 10.15	x		279.19	
SWW2	286.30	289.37	15.06	15.22	15.22	14.92 to 16.58	x		274.15	
SWW3	286.00	286.50	16.55	16.56	16.56	16.10 to 17.60	x		269.94	
SWW4	282.90	283.60	15.45	16.29	16.29	13.52 to 16.08		x	267.31	16.29
SWW5	275.90	277.02	13.10	12.95	12.95	12.50 to 13.82	x		264.07	
SWW6	270.90	273.06	9.11	9.54	9.54	8.02 to 9.40		x	263.52	9.54
SWW7	273.30	277.93	7.74	7.90	7.90	7.38 to 8.80	x		270.03	
SWW8	275.70	278.24	4.42	5.42	5.42	3.58 to 4.82		x	272.82	5.42
SWW9	283.30	285.55	16.43	16.65	16.65	16.15 to 17.92	x		268.90	
SWW10	279.30	280.43	12.08	13.18	13.18	9.88 to 12.90		x	267.25	13.18
SWW11	271.00	273.50	8.84	8.76	8.76	8.64 to 9.78	x		264.74	
SWW12	270.20	272.82	9.23	11.11	11.11	8.27 to 9.70		x	261.71	11.11
LCW-1	271.40	272.21	8.30	8.14	8.14	7.73 to 10.80	x		264.07	
LCW-2	272.60	274.44	10.55	10.40	10.40	9.95 to 13.05	x		264.04	
LCW-3	283.30	284.36	18.36	18.40	18.40	17.72 to 19.03	x		265.96	
LCW-4	283.80	285.70	17.18	17.26	17.26	16.88 to 18.65	x		268.44	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
07/12/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.14	10.50	10.50	7.80 to 10.15		x	278.83	10.50
SWW2	286.30	289.37	15.22	15.68	15.68	14.92 to 16.58	x		273.69	
SWW3	286.00	286.50	16.56	16.75	16.75	16.10 to 17.60	x		269.75	
SWW4	282.90	283.60	16.29	16.70	16.70	13.52 to 16.08		x	266.90	16.70
SWW5	275.90	277.02	12.95	12.75	12.75	12.50 to 13.82	x		264.27	
SWW6	270.90	273.06	9.54	9.64	9.64	8.02 to 9.40		x	263.42	9.64
SWW7	273.30	277.93	7.90	8.22	8.22	7.38 to 8.80	x		269.71	
SWW8	275.70	278.24	5.42	6.65	6.65	3.58 to 4.82		x	271.59	6.65
SWW9	283.30	285.55	16.65	17.10	17.10	16.15 to 17.92	x		268.45	
SWW10	279.30	280.43	13.18	14.31	14.31	9.88 to 12.90		x	266.12	14.31
SWW11	271.00	273.50	8.76	8.73	8.73	8.64 to 9.78	x		264.77	
SWW12	270.20	272.82	11.11	12.34	12.34	8.27 to 9.70		x	260.48	12.34
LCW-1	271.40	272.21	8.14	7.72	7.72	7.73 to 10.80		x	264.49	7.72
LCW-2	272.60	274.44	10.40	9.95	9.95	9.95 to 13.05			264.49	
LCW-3	283.30	284.36	18.40	18.70	18.70	17.72 to 19.03	x		265.66	
LCW-4	283.80	285.70	17.26	16.90	16.90	16.88 to 18.65	x		268.80	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
08/02/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.50	10.58	10.58	8.52 to 10.64			278.75	
SWW2	286.30	289.37	15.68	15.88	15.88	14.45 to 15.72		x	273.49	15.88
SWW3	286.00	286.50	16.75	16.91	16.91	15.96 to 17.06			269.59	
SWW4	282.90	283.60	16.70	16.60	16.60	14.35 to 16.79	x		267.00	
SWW5	275.90	277.02	12.75	12.96	12.96	12.08 to 13.62	x		264.06	
SWW6	270.90	273.06	9.64	9.55	9.55	8.22 to 10.04	x		263.51	
SWW7	273.30	277.93	8.22	8.40	8.40	7.18 to 8.40			269.53	
SWW8	275.70	278.24	6.65	6.63	6.63	3.45 to 5.92		x	271.61	6.63
SWW9	283.30	285.55	17.10	17.56	17.56	15.78 to 17.15		x	267.99	17.56
SWW10	279.30	280.43	14.31	14.94	14.94	10.74 to 13.68		x	265.49	14.94
SWW11	271.00	273.50	8.73	8.98	8.98	8.03 to 9.44	x		264.52	
SWW12	270.20	272.82	12.34	12.42	12.42	8.18 to 11.61		x	260.40	12.42
LCW-1	271.40	272.21	7.72	8.00	8.00	7.20 to 8.90	x		264.21	
LCW-2	272.60	274.44	9.95	10.24	10.24	9.45 to 11.16	x		264.20	
LCW-3	283.30	284.36	18.70	18.66	18.66	17.86 to 18.97	x		265.70	
LCW-4	283.80	285.70	16.90	17.14	17.14	16.35 to 17.76	x		268.56	
LR-2	287.50	289.85	13.68	14.65	14.65	13.18 to 15.72	x		275.20	
LR-3	275.50	278.06	8.20	9.70	9.70	7.70 to 10.84	x		268.36	
LR-6	270.90	274.39	10.41	11.55	11.55	9.91 to 12.44	x		262.84	
LR-8	270.00	273.42	10.37	11.91	11.91	9.87 to 12.48	x		261.51	
M-21	270.28	272.32	9.81	11.34	11.34	9.31 to 11.84	x		260.98	
M-22	270.40	273.88	10.11	11.25	11.25	9.61 to 12.12	x		262.63	
M-23	267.98	270.49	11.75	13.35	13.35	11.25 to 13.72	x		257.14	
M-24	276.49	277.94	14.59	16.00	16.00	14.09 to 16.90	x		261.94	
M-25	264.56	265.84	6.75	8.50	8.50	6.25 to 8.86	x		257.34	
M-26	271.85	273.38	9.08	11.03	11.03	8.58 to 12.60	x		262.35	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
9-13-04

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.58	9.90	9.90	8.52 to 10.64	x		279.43	
SWW2	286.30	289.37	15.88	16.13	16.13	14.45 to 15.72		x	273.24	16.13
SWW3	286.00	286.50	16.91	17.16	17.16	15.96 to 17.06		x	269.34	17.16
SWW4	282.90	283.60	16.60	15.50	15.50	14.35 to 16.79	x		268.10	
SWW5	275.90	277.02	12.96	12.96	12.96	12.08 to 13.62	x		264.06	
SWW6	270.90	273.06	9.55	8.90	8.90	8.22 to 10.04	x		264.16	
SWW7	273.30	277.93	8.40	8.60	8.60	7.18 to 8.40		x	269.33	8.60
SWW8	275.70	278.24	6.63	5.70	5.70	3.45 to 5.92	x		272.54	
SWW9	283.30	285.55	17.56	18.22	18.22	15.78 to 17.15		x	267.33	18.22
SWW10	279.30	280.43	14.94	13.32	13.32	10.74 to 13.68	x		267.11	
SWW11	271.00	273.50	8.98	9.25	9.25	8.03 to 9.44	x		264.25	
SWW12	270.20	272.82	12.42	12.47	12.47	8.18 to 11.61		x	260.35	12.47
LCW-1	271.40	272.21	8.00	8.04	8.04	7.20 to 8.90	x		264.17	
LCW-2	272.60	274.44	10.24	10.28	10.28	9.45 to 11.16	x		264.16	
LCW-3	283.30	284.36	18.66	18.85	18.85	17.86 to 18.97	x		265.51	
LCW-4	283.80	285.70	17.14	17.12	17.12	16.35 to 17.76	x		268.58	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
10/04/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.90	10.40	10.40	8.52 to 10.64			278.93	
SWW2	286.30	289.37	16.13	16.08	16.08	14.45 to 15.72		x	273.29	16.08
SWW3	286.00	286.50	17.16	17.12	17.12	15.96 to 17.06		x	269.38	17.12
SWW4	282.90	283.60	15.50	16.54	16.54	14.35 to 16.79	x		267.06	
SWW5	275.90	277.02	12.96	13.10	13.10	12.08 to 13.62	x		263.92	
SWW6	270.90	273.06	8.90	9.51	9.51	8.22 to 10.04	x		263.55	
SWW7	273.30	277.93	8.60	8.65	8.65	7.18 to 8.40		x	269.28	8.65
SWW8	275.70	278.24	5.70	7.23	7.23	3.45 to 5.92		x	271.01	7.23
SWW9	283.30	285.55	18.22	18.28	18.28	15.78 to 17.15		x	267.27	18.28
SWW10	279.30	280.43	13.32	14.36	14.36	10.74 to 13.68		x	266.07	14.36
SWW11	271.00	273.50	9.25	9.30	9.30	8.03 to 9.44	x		264.20	
SWW12	270.20	272.82	12.47	12.64	12.64	8.18 to 11.61		x	260.18	12.64
LCW-1	271.40	272.21	8.04	8.38	8.38	7.20 to 8.90	x		263.83	
LCW-2	272.60	274.44	10.28	10.62	10.62	9.45 to 11.16	x		263.82	
LCW-3	283.30	284.36	18.85	18.73	18.73	17.86 to 18.97	x		265.63	
LCW-4	283.80	285.70	17.12	17.50	17.50	16.35 to 17.76	x		268.20	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
11/08/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.40	10.60	10.60	9.40 to 11.08	x		278.73	
SWW2	286.30	289.37	16.08	16.42	16.42	15.38 to 16.63	x		272.95	
SWW3	286.00	286.50	17.12	17.42	17.42	16.41 to 17.66	x		269.08	
SWW4	282.90	283.60	16.54	16.56	16.56	15.00 to 17.10	x		267.04	
SWW5	275.90	277.02	13.10	13.48	13.48	12.46 to 13.46		x	263.54	13.48
SWW6	270.90	273.06	9.51	9.57	9.57	8.40 to 10.05	x		263.49	
SWW7	273.30	277.93	8.65	9.03	9.03	7.90 to 9.10	x		268.90	
SWW8	275.70	278.24	7.23	6.72	6.72	5.20 to 7.13	x		271.52	
SWW9	283.30	285.55	18.28	18.82	18.82	17.06 to 18.72		x	266.73	18.82
SWW10	279.30	280.43	14.36	15.46	15.46	12.82 to 15.44		x	264.97	15.46
SWW11	271.00	273.50	9.30	9.68	9.68	8.48 to 9.75	x		263.82	
SWW12	270.20	272.82	12.64	11.98	11.98	11.92 to 12.97	x		260.84	
LCW-1	271.40	272.21	8.38	8.44	8.44	7.50 to 8.54	x		263.77	
LCW-2	272.60	274.44	10.62	10.69	10.69	9.74 to 10.78	x		263.75	
LCW-3	283.30	284.36	18.73	18.90	18.90	18.16 to 19.35	x		265.46	
LCW-4	283.80	285.70	17.50	17.50	17.50	16.62 to 17.64	x		268.20	
LR-2	287.50	289.85	14.65	14.50	14.50	13.18 to 15.15	x		275.35	
LR-3	275.50	278.06	9.70	9.47	9.47	7.70 to 10.20	x		268.59	
LR-6	270.90	274.39	11.55	11.36	11.36	9.91 to 12.05	x		263.03	
LR-8	270.00	273.42	11.91	11.93	11.93	9.87 to 12.41	x		261.49	
M-21	270.28	272.32	11.34	11.30	11.30	9.31 to 11.84	x		261.02	
M-22	270.40	273.88	11.25	11.06	11.06	9.61 to 11.75	x		262.82	
M-23	267.98	270.49	13.35	12.02	12.02	11.25 to 13.85	x		258.47	
M-24	276.49	277.94	16.00	16.07	16.07	14.09 to 16.50	x		261.87	
M-25	264.56	265.84	8.50	7.58	7.58	6.25 to 9.00	x		258.26	
M-26	271.85	273.38	11.03	10.90	10.90	8.58 to 11.53	x		262.48	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
12/06/2004

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	10.60	9.45	9.45	9.40 to 11.08	x		279.88	
SWW2	286.30	289.37	16.42	16.33	16.33	15.38 to 16.63	x		273.04	
SWW3	286.00	286.50	17.42	17.35	17.35	16.41 to 17.66	x		269.15	
SWW4	282.90	283.60	16.56	14.20	14.20	15.00 to 17.10		x	269.40	14.20
SWW5	275.90	277.02	13.48	13.22	13.22	12.46 to 13.46	x		263.80	
SWW6	270.90	273.06	9.57	8.50	8.50	8.40 to 10.05	x		264.56	
SWW7	273.30	277.93	9.03	8.58	8.58	7.90 to 9.10	x		269.35	
SWW8	275.70	278.24	6.72	4.26	4.26	5.20 to 7.13		x	273.98	4.26
SWW9	283.30	285.55	18.82	18.45	18.45	17.06 to 18.72	x		267.10	
SWW10	279.30	280.43	15.46	10.82	10.82	12.82 to 15.44		x	269.61	10.82
SWW11	271.00	273.50	9.68	9.38	9.38	8.48 to 9.75	x		264.12	
SWW12	270.20	272.82	11.98	9.24	9.24	11.92 to 12.97		x	263.58	9.24
LCW-1	271.40	272.21	8.44	8.40	8.40	7.50 to 8.54	x		263.81	
LCW-2	272.60	274.44	10.69	10.65	10.65	9.74 to 10.78	x		263.79	
LCW-3	283.30	284.36	18.90	18.70	18.70	18.16 to 19.35	x		265.66	
LCW-4	283.80	285.70	17.50	17.84	17.84	16.62 to 17.64		x	267.86	17.84

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
12/27/04
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.45	8.82	8.82	9.40 to 11.08		x	280.51	8.82
SWW2	286.30	289.37	16.33	16.10	16.10	15.38 to 16.63	x		273.27	
SWW3	286.00	286.50	17.35	17.00	17.00	16.41 to 17.66	x		269.50	
SWW4	282.90	283.60	14.20	14.48	14.48	15.00 to 17.10		x	269.12	14.48
SWW5	275.90	277.02	13.22	13.20	13.20	12.46 to 13.46	x		263.82	
SWW6	270.90	273.06	8.50	8.58	8.58	8.40 to 10.05	x		264.48	
SWW7	273.30	277.93	8.58	8.50	8.50	7.90 to 9.10	x		269.43	
SWW8	275.70	278.24	4.26	4.20	4.20	5.20 to 7.13		x	274.04	4.20
SWW9	283.30	285.55	18.45	18.20	18.20	17.06 to 18.72	x		267.35	
SWW10	279.30	280.43	10.82	10.85	10.85	12.82 to 15.44		x	269.58	10.85
SWW11	271.00	273.50	9.38	9.28	9.28	8.48 to 9.75	x		264.22	
SWW12	270.20	272.82	9.24	9.12	9.12	11.92 to 12.97		x	263.70	9.12
LCW-1	271.40	272.21	8.40	8.48	8.48	7.50 to 8.54	x		263.73	
LCW-2	272.60	274.44	10.65	10.60	10.60	9.74 to 10.78	x		263.84	
LCW-3	283.30	284.36	18.70	18.50	18.50	18.16 to 19.35	x		265.86	
LCW-4	283.80	285.70	17.84	17.80	17.80	16.62 to 17.64		x	267.90	17.80

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
02/07/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.45	9.50	9.50	8.95 to 11.10	x		279.83	
SWW2	286.30	289.37	16.33	15.62	15.62	15.83 to 16.92		x	273.75	15.62
SWW3	286.00	286.50	17.35	16.98	16.98	16.85 to 17.92	x		269.52	
SWW4	282.90	283.60	14.20	15.48	15.48	13.70 to 17.06	x		268.12	
SWW5	275.90	277.02	13.22	12.65	12.65	12.72 to 13.98		x	264.37	12.65
SWW6	270.90	273.06	8.50	8.88	8.88	8.00 to 10.07	x		264.18	
SWW7	273.30	277.93	8.58	8.09	8.09	8.08 to 9.53	x		269.84	
SWW8	275.70	278.24	4.26	4.24	4.24	3.76 to 7.22	x		274.00	
SWW9	283.30	285.55	18.45	17.05	17.05	17.95 to 19.32		x	268.50	17.05
SWW10	279.30	280.43	10.82	11.92	11.92	10.32 to 15.96	x		268.51	
SWW11	271.00	273.50	9.38	8.74	8.74	8.88 to 10.18		x	264.76	8.74
SWW12	270.20	272.82	9.24	8.98	8.98	8.74 to 12.48	x		263.84	
LCW-1	271.40	272.21	8.40	7.83	7.83	7.90 to 8.94		x	264.38	7.83
LCW-2	272.60	274.44	10.65	10.10	10.10	10.15 to 11.19		x	264.34	10.10
LCW-3	283.30	284.36	18.70	18.61	18.61	18.20 to 19.40	x		265.75	
LCW-4	283.80	285.70	17.84	17.72	17.72	17.00 to 18.34	x		267.98	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
03/07/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.50	9.11	9.11	8.95 to 11.10	x		280.22	
SWW2	286.30	289.37	15.62	15.40	15.40	15.83 to 16.92		x	273.97	15.40
SWW3	286.00	286.50	16.98	16.76	16.76	16.85 to 17.92		x	269.74	16.76
SWW4	282.90	283.60	15.48	14.97	14.97	13.70 to 17.06	x		268.63	
SWW5	275.90	277.02	12.65	12.42	12.42	12.72 to 13.98		x	264.60	12.42
SWW6	270.90	273.06	8.88	8.63	8.63	8.00 to 10.07	x		264.43	
SWW7	273.30	277.93	8.09	7.80	7.80	8.08 to 9.53		x	270.13	7.80
SWW8	275.70	278.24	4.24	4.07	4.07	3.76 to 7.22	x		274.17	
SWW9	283.30	285.55	17.05	16.68	16.68	17.95 to 19.32		x	268.87	16.68
SWW10	279.30	280.43	11.92	11.02	11.02	10.32 to 15.96	x		269.41	
SWW11	271.00	273.50	8.74	8.48	8.48	8.88 to 10.18		x	265.02	8.48
SWW12	270.20	272.82	8.98	8.77	8.77	8.74 to 12.48	x		264.05	
LCW-1	271.40	272.21	7.83	7.70	7.70	7.90 to 8.94		x	264.51	7.70
LCW-2	272.60	274.44	10.10	9.95	9.95	10.15 to 11.19		x	264.49	9.95
LCW-3	283.30	284.36	18.61	18.50	18.50	18.20 to 19.40	x		265.86	
LCW-4	283.80	285.70	17.72	17.65	17.65	17.00 to 18.34	x		268.05	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
04/04/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	9.11	7.92	7.92	8.95 to 11.10		x	281.41	7.92
SWW2	286.30	289.37	15.40	15.58	15.58	15.83 to 16.92		x	273.79	15.58
SWW3	286.00	286.50	16.76	16.63	16.63	16.85 to 17.92		x	269.87	16.63
SWW4	282.90	283.60	14.97	11.86	11.86	13.70 to 17.06		x	271.74	11.86
SWW5	275.90	277.02	12.42	13.05	13.05	12.72 to 13.98	x		263.97	
SWW6	270.90	273.06	8.63	7.90	7.90	8.00 to 10.07		x	265.16	7.90
SWW7	273.30	277.93	7.80	7.88	7.88	8.08 to 9.53		x	270.05	7.88
SWW8	275.70	278.24	4.07	3.86	3.86	3.76 to 7.22	x		274.38	
SWW9	283.30	285.55	16.68	16.46	16.46	17.95 to 19.32		x	269.09	16.46
SWW10	279.30	280.43	11.02	8.90	8.90	10.32 to 15.96		x	271.53	8.90
SWW11	271.00	273.50	8.48	8.92	8.92	8.88 to 10.18	x		264.58	
SWW12	270.20	272.82	8.77	8.25	8.25	8.74 to 12.48		x	264.57	8.25
LCW-1	271.40	272.21	7.70	8.20	8.20	7.90 to 8.94	x		264.01	
LCW-2	272.60	274.44	9.95	10.48	10.48	10.15 to 11.19	x		263.96	
LCW-3	283.30	284.36	18.50	18.48	18.48	18.20 to 19.40	x		265.88	
LCW-4	283.80	285.70	17.65	17.22	17.22	17.00 to 18.34	x		268.48	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
05/02/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	7.92	8.78	8.78	8.61 to 10.00	x		280.55	
SWW2	286.30	289.37	15.58	15.07	15.07	14.90 to 16.12	x		274.30	
SWW3	286.00	286.50	16.63	16.52	16.52	16.26 to 17.48	x		269.98	
SWW4	282.90	283.60	11.86	13.60	13.60	14.47 to 15.98		x	270.00	13.60
SWW5	275.90	277.02	13.05	12.62	12.62	11.92 to 13.15	x		264.40	
SWW6	270.90	273.06	7.90	8.22	8.22	8.13 to 9.38	x		264.84	
SWW7	273.30	277.93	7.88	7.65	7.65	7.30 to 8.59	x		270.28	
SWW8	275.70	278.24	3.86	3.98	3.98	3.57 to 4.74	x		274.26	
SWW9	283.30	285.55	16.46	16.18	16.18	16.18 to 17.55			269.37	
SWW10	279.30	280.43	8.90	9.48	9.48	10.52 to 12.42		x	270.95	9.48
SWW11	271.00	273.50	8.92	8.53	8.53	7.98 to 9.24	x		264.97	
SWW12	270.20	272.82	8.25	8.52	8.52	8.27 to 9.48	x		264.30	
LCW-1	271.40	272.21	8.20	7.80	7.80	7.20 to 8.33	x		264.41	
LCW-2	272.60	274.44	10.48	10.08	10.08	9.45 to 10.60	x		264.36	
LCW-3	283.30	284.36	18.48	18.30	18.30	18.00 to 19.11	x		266.06	
LCW-4	283.80	285.70	17.22	17.30	17.30	17.15 to 18.22	x		268.40	
LR-2	287.50	289.85	13.92	13.60	13.60	13.18 to 15.15	x		276.25	
LR-3	275.50	278.06	8.43	7.90	7.90	7.70 to 10.20	x		270.16	
LR-6	270.90	274.39	10.60	10.08	10.08	9.91 to 12.05	x		264.31	
LR-8	270.00	273.42	10.84	9.85	9.85	9.87 to 12.43		x	263.57	9.85
M-21	270.28	272.32	10.26	9.25	9.25	9.31 to 11.84		x	263.07	9.25
M-22	270.40	273.88	10.32	9.79	9.79	9.61 to 11.75	x		264.09	
M-23	267.98	270.49	11.91	11.40	11.40	11.25 to 13.85	x		259.09	
M-24	276.49	277.94	15.34	14.30	14.30	14.09 to 16.57	x		263.64	
M-25	264.56	265.84	7.12	8.26	8.26	6.25 to 9.00	x		257.58	
M-26	271.85	273.38	NA	7.88	7.88	8.58 to 11.53		x	265.50	7.88

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
06/06/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Elevation	Reading 3
SWW1	286.20	289.33	8.78	10.16	10.16	8.61 to 10.00		x	279.17	10.16
SWW2	286.30	289.37	15.07	15.30	15.30	14.90 to 16.12	x		274.07	
SWW3	286.00	286.50	16.52	16.68	16.68	16.26 to 17.48	x		269.82	
SWW4	282.90	283.60	13.60	16.31	16.31	14.47 to 15.98		x	267.29	16.31
SWW5	275.90	277.02	12.62	12.58	12.58	11.92 to 13.15	x		264.44	
SWW6	270.90	273.06	8.22	9.45	9.45	8.13 to 9.38		x	263.61	9.45
SWW7	273.30	277.93	7.65	7.78	7.78	7.30 to 8.59	x		270.15	
SWW8	275.70	278.24	3.98	4.92	4.92	3.57 to 4.74		x	273.32	4.92
SWW9	283.30	285.55	16.18	16.63	16.63	16.18 to 17.55	x		268.92	
SWW10	279.30	280.43	9.48	13.16	13.16	10.52 to 12.42		x	267.27	13.16
SWW11	271.00	273.50	8.53	8.48	8.48	7.98 to 9.24	x		265.02	
SWW12	270.20	272.82	8.52	10.36	10.36	8.27 to 9.48		x	262.46	10.36
LCW-1	271.40	272.21	7.80	7.61	7.61	7.20 to 8.33	x		264.60	
LCW-2	272.60	274.44	10.08	9.85	9.85	9.45 to 10.60	x		264.59	
LCW-3	283.30	284.36	18.30	18.62	18.62	18.00 to 19.11	x		265.74	
LCW-4	283.80	285.70	17.30	16.80	16.80	17.15 to 18.22		x	268.90	16.80

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
07/11/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Elevation	Reading 3
SWW1	286.20	289.33	10.16	10.83	10.83	8.61 to 10.00		x	278.50	10.83
SWW2	286.30	289.37	15.30	15.92	15.92	14.90 to 16.12	x		273.45	
SWW3	286.00	286.50	16.68	17.00	17.00	16.26 to 17.48	x		269.50	
SWW4	282.90	283.60	16.31	17.04	17.04	14.47 to 15.98		x	266.56	17.04
SWW5	275.90	277.02	12.58	12.63	12.63	11.92 to 13.15	x		264.39	
SWW6	270.90	273.06	9.45	9.88	9.88	8.13 to 9.38		x	263.18	9.88
SWW7	273.30	277.93	7.78	8.46	8.46	7.30 to 8.59	x		269.47	
SWW8	275.70	278.24	4.92	8.32	8.32	3.57 to 4.74		x	269.92	8.32
SWW9	283.30	285.55	16.63	17.47	17.47	16.18 to 17.55	x		268.08	
SWW10	279.30	280.43	13.16	15.35	15.35	10.52 to 12.42		x	265.08	15.35
SWW11	271.00	273.50	8.48	8.74	8.74	7.98 to 9.24	x		264.76	
SWW12	270.20	272.82	10.36	14.02	14.02	8.27 to 9.48		x	258.80	14.02
LCW-1	271.40	272.21	7.61	7.40	7.40	7.20 to 8.33	x		264.81	
LCW-2	272.60	274.44	9.85	9.65	9.65	9.45 to 10.60	x		264.79	
LCW-3	283.30	284.36	18.62	18.84	18.84	18.00 to 19.11	x		265.52	
LCW-4	283.80	285.70	16.80	17.05	17.05	17.15 to 18.22		x	268.65	17.05

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
08/01/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.83	10.76	10.76	8.28 to 10.66		x	278.57	10.76
SWW2	286.30	289.37	15.92	16.25	16.25	14.57 to 15.80		x	273.12	16.25
SWW3	286.00	286.50	17.00	17.18	17.18	16.02 to 17.18			269.32	
SWW4	282.90	283.60	17.04	17.08	17.08	13.10 to 16.81		x	266.52	17.08
SWW5	275.90	277.02	12.63	12.60	12.60	12.08 to 13.12	x		264.42	
SWW6	270.90	273.06	9.88	9.75	9.75	7.72 to 9.95	x		263.31	
SWW7	273.30	277.93	8.46	8.64	8.64	7.15 to 8.28		x	269.29	8.64
SWW8	275.70	278.24	8.32	8.72	8.72	3.48 to 5.42		x	269.52	8.72
SWW9	283.30	285.55	17.47	17.98	17.98	15.68 to 17.13		x	267.57	17.98
SWW10	279.30	280.43	15.35	16.42	16.42	8.98 to 13.66		x	264.01	16.42
SWW11	271.00	273.50	8.74	8.88	8.88	7.98 to 9.03	x		264.62	
SWW12	270.20	272.82	14.02	14.55	14.55	8.02 to 10.86		x	258.27	14.55
LCW-1	271.40	272.21	7.40	7.52	7.52	7.11 to 8.30	x		264.69	
LCW-2	272.60	274.44	9.65	9.75	9.75	9.35 to 10.58	x		264.69	
LCW-3	283.30	284.36	18.84	18.86	18.86	17.80 to 19.12	x		265.50	
LCW-4	283.80	285.70	17.05	17.55	17.55	16.30 to 17.80	x		268.15	
LR-2	287.50	289.85	13.60	15.80	15.80	13.10 to 15.15		x	274.05	15.80
LR-3	275.50	278.06	7.90	10.78	10.78	7.40 to 10.20		x	267.28	10.78
LR-6	270.90	274.39	10.08	12.73	12.73	9.58 to 12.05		x	261.66	12.73
LR-8	270.00	273.42	9.85	12.20	12.20	9.35 to 12.43	x		261.22	
M-21	270.28	272.32	9.25	11.88	11.88	8.75 to 11.84		x	260.44	11.88
M-22	270.40	273.88	9.79	11.90	11.90	9.29 to 11.75		x	261.98	11.90
M-23	267.98	270.49	11.40	13.56	13.56	10.90 to 13.85	x		256.93	
M-24	276.49	277.94	14.30	16.57	16.57	13.80 to 16.57			261.37	
M-25	264.56	265.84	8.26	8.98	8.98	6.62 to 9.00	x		256.86	
M-26	271.85	273.38	7.88	10.05	10.05	7.38 to 11.53	x		263.33	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
09/12/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Ever	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.76	10.90	10.90	8.28 to 10.66		x	278.43	10.90
SWW2	286.30	289.37	16.25	16.78	16.78	14.57 to 15.80		x	272.59	16.78
SWW3	286.00	286.50	17.18	17.55	17.55	16.02 to 17.18		x	268.95	17.55
SWW4	282.90	283.60	17.08	17.25	17.25	13.10 to 16.81		x	266.35	17.25
SWW5	275.90	277.02	12.60	12.70	12.70	12.08 to 13.12	x		264.32	
SWW6	270.90	273.06	9.75	9.86	9.86	7.72 to 9.95	x		263.20	
SWW7	273.30	277.93	8.64	9.05	9.05	7.15 to 8.28		x	268.88	9.05
SWW8	275.70	278.24	8.72	10.05	10.05	3.48 to 5.42		x	268.19	10.05
SWW9	283.30	285.55	17.98	18.98	18.98	15.68 to 17.13		x	266.57	18.98
SWW10	279.30	280.43	16.42	17.84	17.84	8.98 to 13.66		x	262.59	17.84
SWW11	271.00	273.50	8.88	9.17	9.17	7.98 to 9.03		x	264.33	9.17
SWW12	270.20	272.82	14.55	14.93	14.93	8.02 to 10.86		x	257.89	14.93
LCW-1	271.40	272.21	7.52	7.66	7.66	7.11 to 8.30	x		264.55	
LCW-2	272.60	274.44	9.75	9.90	9.90	9.35 to 10.58	x		264.54	
LCW-3	283.30	284.36	18.86	19.18	19.18	17.80 to 19.12		x	265.18	19.18
LCW-4	283.80	285.70	17.55	17.75	17.75	16.30 to 17.80	x		267.95	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
10/03/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.90	10.57	10.57	8.28 to 10.66	x		278.76	
SWW2	286.30	289.37	16.78	16.84	16.84	14.57 to 15.80		x	272.53	16.84
SWW3	286.00	286.50	17.55	17.63	17.63	16.02 to 17.18		x	268.87	17.63
SWW4	282.90	283.60	17.25	16.40	16.40	13.10 to 16.81	x		267.20	
SWW5	275.90	277.02	12.70	12.78	12.78	12.08 to 13.12	x		264.24	
SWW6	270.90	273.06	9.86	9.42	9.42	7.72 to 9.95	x		263.64	
SWW7	273.30	277.93	9.05	9.22	9.22	7.15 to 8.28		x	268.71	9.22
SWW8	275.70	278.24	10.05	8.76	8.76	3.48 to 5.42		x	269.48	8.76
SWW9	283.30	285.55	18.98	19.34	19.34	15.68 to 17.13		x	266.21	19.34
SWW10	279.30	280.43	17.84	17.45	17.45	8.98 to 13.66		x	262.98	17.45
SWW11	271.00	273.50	9.17	9.27	9.27	7.98 to 9.03		x	264.23	9.27
SWW12	270.20	272.82	14.93	14.20	14.20	8.02 to 10.86		x	258.62	14.20
LCW-1	271.40	272.21	7.66	7.70	7.70	7.11 to 8.30	x		264.51	
LCW-2	272.60	274.44	9.90	9.92	9.92	9.35 to 10.58	x		264.52	
LCW-3	283.30	284.36	19.18	19.00	19.00	17.80 to 19.12	x		265.36	
LCW-4	283.80	285.70	17.75	18.60	18.60	16.30 to 17.80		x	267.10	18.60

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
11/07/2005
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.90	9.44	9.44	10.26 to 11.40		x	279.89	9.44
SWW2	286.30	289.37	16.78	16.32	16.32	15.75 to 17.28	x		273.05	
SWW3	286.00	286.50	17.55	17.28	17.28	16.68 to 18.05	x		269.22	
SWW4	282.90	283.60	17.25	15.12	15.12	16.58 to 17.75		x	268.48	15.12
SWW5	275.90	277.02	12.70	12.55	12.55	12.10 to 13.20	x		264.47	
SWW6	270.90	273.06	9.86	9.00	9.00	9.25 to 10.36		x	264.06	9.00
SWW7	273.30	277.93	9.05	8.93	8.93	8.14 to 9.55	x		269.00	
SWW8	275.70	278.24	10.05	5.35	5.35	8.22 to 10.55		x	272.89	5.35
SWW9	283.30	285.55	18.98	18.78	18.78	17.48 to 19.48	x		266.77	
SWW10	279.30	280.43	17.84	12.46	12.46	15.92 to 18.34		x	267.97	12.46
SWW11	271.00	273.50	9.17	8.81	8.81	8.38 to 9.67	x		264.69	
SWW12	270.20	272.82	14.93	9.90	9.90	14.05 to 15.43		x	262.92	9.90
LCW-1	271.40	272.21	7.66	7.42	7.42	7.02 to 8.16	x		264.79	
LCW-2	272.60	274.44	9.90	9.68	9.68	9.25 to 10.40	x		264.76	
LCW-3	283.30	284.36	19.18	18.85	18.85	18.36 to 19.68	x		265.51	
LCW-4	283.80	285.70	17.75	18.63	18.63	17.05 to 18.25		x	267.07	18.63
LR-2	287.50	289.85	15.80	13.90	13.90	13.10 to 16.30	x		275.95	
LR-3	275.50	278.06	10.78	9.12	9.12	7.40 to 11.28	x		268.94	
LR-6	270.90	274.39	12.73	11.08	11.08	9.58 to 13.23	x		263.31	
LR-8	270.00	273.42	12.20	11.60	11.60	9.35 to 12.70	x		261.82	
M-21	270.28	272.32	11.88	11.16	11.16	8.75 to 12.38	x		261.16	
M-22	270.40	273.88	11.90	10.72	10.72	9.29 to 12.40	x		263.16	
M-23	267.98	270.49	13.56	12.90	12.90	10.90 to 14.06	x		257.59	
M-24	276.49	277.94	16.57	15.51	15.51	13.80 to 17.07	x		262.43	
M-25	264.56	265.84	8.98	8.12	8.12	6.62 to 9.48	x		257.72	
M-26	271.85	273.38	10.05	9.12	9.12	7.38 to 11.40	x		264.26	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
12/05/2005

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	9.44			10.26 to 11.40		x	289.33	0.00
SWW2	286.30	289.37	16.32			15.75 to 17.28		x	289.37	0.00
SWW3	286.00	286.50	17.28			16.68 to 18.05		x	286.50	0.00
SWW4	282.90	283.60	15.12			16.58 to 17.75		x	283.60	0.00
SWW5	275.90	277.02	12.55			12.10 to 13.20		x	277.02	0.00
SWW6	270.90	273.06	9.00			9.25 to 10.36		x	273.06	0.00
SWW7	273.30	277.93	8.93			8.14 to 9.55		x	277.93	0.00
SWW8	275.70	278.24	5.35			8.22 to 10.55		x	278.24	0.00
SWW9	283.30	285.55	18.78			17.48 to 19.48		x	285.55	0.00
SWW10	279.30	280.43	12.46			15.92 to 18.34		x	280.43	0.00
SWW11	271.00	273.50	8.81			8.38 to 9.67		x	273.50	0.00
SWW12	270.20	272.82	9.90			14.05 to 15.43		x	272.82	0.00
LCW-1	271.40	272.21	7.42			7.02 to 8.16		x	272.21	0.00
LCW-2	272.60	274.44	9.68			9.25 to 10.40		x	274.44	0.00
LCW-3	283.30	284.36	18.85			18.36 to 19.68		x	284.36	0.00
LCW-4	283.80	285.70	18.63			17.05 to 18.25		x	285.70	0.00

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
01/09/06
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	8.35	8.26	8.26	10.26 to 11.40		x	281.07	8.26
SWW2	286.30	289.37	15.82	15.48	15.48	15.75 to 17.28		x	273.89	15.48
SWW3	286.00	286.50	16.90	16.72	16.72	16.68 to 18.05	x		269.78	
SWW4	282.90	283.60	13.20	13.32	13.32	16.58 to 17.75		x	270.28	13.32
SWW5	275.90	277.02	12.28	12.18	12.18	12.10 to 13.20	x		264.84	
SWW6	270.90	273.06	8.22	8.32	8.32	9.25 to 10.36		x	264.74	8.32
SWW7	273.30	277.93	8.48	8.20	8.20	8.14 to 9.55	x		269.73	
SWW8	275.70	278.24	4.08	4.04	4.04	8.22 to 10.55		x	274.20	4.04
SWW9	283.30	285.55	17.82	17.00	17.00	17.48 to 19.48		x	268.55	17.00
SWW10	279.30	280.43	9.86	9.85	9.85	15.92 to 18.34		x	270.58	9.85
SWW11	271.00	273.50	8.50	8.48	8.48	8.38 to 9.67	x		265.02	
SWW12	270.20	272.82	8.52	8.67	8.67	14.05 to 15.43		x	264.15	8.67
LCW-1	271.40	272.21	7.33	7.30	7.30	7.02 to 8.16	x		264.91	
LCW-2	272.60	274.44	9.56	9.53	9.53	9.25 to 10.40	x		264.91	
LCW-3	283.30	284.36	18.55	18.30	18.30	18.36 to 19.68		x	266.06	18.30
LCW-4	283.80	285.70	18.95	18.40	18.40	17.05 to 18.25		x	267.30	18.40

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
02/06/06
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Ever	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	8.67	8.11	8.11	7.85 to 11.40	x		281.22	
SWW2	286.30	289.37	16.00	15.15	15.15	15.32 to 17.28		x	274.22	15.15
SWW3	286.00	286.50	17.05	16.37	16.37	16.40 to 18.05		x	270.13	16.37
SWW4	282.90	283.60	14.20	12.55	12.55	12.70 to 17.75		x	271.05	12.55
SWW5	275.90	277.02	13.44	12.55	12.55	11.78 to 13.20	x		264.47	
SWW6	270.90	273.06	8.61	8.10	8.10	7.72 to 10.36	x		264.96	
SWW7	273.30	277.93	8.31	7.92	7.92	7.98 to 9.55		x	270.01	7.92
SWW8	275.70	278.24	4.26	3.97	3.97	3.58 to 10.55	x		274.27	
SWW9	283.30	285.55	18.11	16.41	16.41	17.32 to 19.48		x	269.14	16.41
SWW10	279.30	280.43	10.65	9.20	9.20	9.36 to 18.34		x	271.23	9.20
SWW11	271.00	273.50	9.79	8.58	8.58	8.00 to 9.67	x		264.92	
SWW12	270.20	272.82	9.02	8.43	8.43	8.02 to 15.43	x		264.39	
LCW-1	271.40	272.21	9.10	7.76	7.76	6.83 to 8.16	x		264.45	
LCW-2	272.60	274.44	11.34	10.00	10.00	9.06 to 10.40	x		264.44	
LCW-3	283.30	284.36	18.66	18.11	18.11	18.05 to 19.68	x		266.25	
LCW-4	283.80	285.70	18.35	17.70	17.70	18.13 to 19.45		x	268.00	17.70
LR-2	287.50	289.85	13.90	12.85	12.85	13.10 to 16.30		x	277.00	12.85
LR-3	275.50	278.06	9.12	7.80	7.80	7.40 to 11.28	x		270.26	
LR-6	270.90	274.39	11.08	9.95	9.95	9.58 to 13.23	x		264.44	
LR-8	270.00	273.42	11.60	9.02	9.02	9.35 to 12.70		x	264.40	9.02
M-21	270.28	272.32	11.16	8.30	8.30	8.75 to 12.38		x	264.02	8.30
M-22	270.40	273.88	10.72	9.62	9.62	9.29 to 12.40	x		264.26	
M-23	267.98	270.49	12.90	11.55	11.55	10.90 to 14.06	x		258.94	
M-24	276.49	277.94	15.51	12.47	12.47	13.80 to 17.07		x	265.47	12.47
M-25	264.56	265.84	8.12	5.35	5.35	6.62 to 9.48		x	260.49	5.35
M-26	271.85	273.38	9.12	6.45	6.45	7.38 to 11.40		x	266.93	6.45

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
03/06/06
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	8.11	9.32	9.32	7.85 to 11.40	x		280.01	
SWW2	286.30	289.37	15.15	15.28	15.28	15.32 to 17.28		x	274.09	15.28
SWW3	286.00	286.50	16.37	16.80	16.80	16.40 to 18.05	x		269.70	
SWW4	282.90	283.60	12.55	15.33	15.33	12.70 to 17.75	x		268.27	
SWW5	275.90	277.02	12.55	12.57	12.57	11.78 to 13.20	x		264.45	
SWW6	270.90	273.06	8.10	8.92	8.92	7.72 to 10.36	x		264.14	
SWW7	273.30	277.93	7.92	8.02	8.02	7.98 to 9.55	x		269.91	
SWW8	275.70	278.24	3.97	4.31	4.31	3.58 to 10.55	x		273.93	
SWW9	283.30	285.55	16.41	16.55	16.55	17.32 to 19.48		x	269.00	16.55
SWW10	279.30	280.43	9.20	11.50	11.50	9.36 to 18.34	x		268.93	
SWW11	271.00	273.50	8.58	8.52	8.52	8.00 to 9.67	x		264.98	
SWW12	270.20	272.82	8.43	9.00	9.00	8.02 to 15.43	x		263.82	
LCW-1	271.40	272.21	7.76	7.62	7.62	6.83 to 8.16	x		264.59	
LCW-2	272.60	274.44	10.00	9.86	9.86	9.06 to 10.40	x		264.58	
LCW-3	283.30	284.36	18.11	18.25	18.25	18.05 to 19.68	x		266.11	
LCW-4	283.80	285.70	17.70	17.65	17.65	18.13 to 19.45		x	268.05	17.65

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
04/03/06
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Ever	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	8.11	9.49	9.49	7.85 to 11.40	x		279.84	
SWW2	286.30	289.37	15.15	15.10	15.10	15.32 to 17.28		x	274.27	15.10
SWW3	286.00	286.50	16.37	16.72	16.72	16.40 to 18.05	x		269.78	
SWW4	282.90	283.60	12.55	15.15	15.15	12.70 to 17.75	x		268.45	
SWW5	275.90	277.02	12.55	12.60	12.60	11.78 to 13.20	x		264.42	
SWW6	270.90	273.06	8.10	8.54	8.54	7.72 to 10.36	x		264.52	
SWW7	273.30	277.93	7.92	7.70	7.70	7.98 to 9.55		x	270.23	7.70
SWW8	275.70	278.24	3.97	4.10	4.10	3.58 to 10.55	x		274.14	
SWW9	283.30	285.55	16.41	16.52	16.52	17.32 to 19.48		x	269.03	16.52
SWW10	279.30	280.43	9.20	11.57	11.57	9.36 to 18.34	x		268.86	
SWW11	271.00	273.50	8.58	8.54	8.54	8.00 to 9.67	x		264.96	
SWW12	270.20	272.82	8.43	8.64	8.64	8.02 to 15.43	x		264.18	
LCW-1	271.40	272.21	7.76	8.08	8.08	6.83 to 8.16	x		264.13	
LCW-2	272.60	274.44	10.00	10.32	10.32	9.06 to 10.40	x		264.12	
LCW-3	283.30	284.36	18.11	18.20	18.20	18.05 to 19.68	x		266.16	
LCW-4	283.80	285.70	17.70	17.25	17.25	18.13 to 19.45		x	268.45	17.25

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
05/08/06
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Ever	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	9.49	10.00	10.00	7.61 to 9.82		x	279.33	10.00
SWW2	286.30	289.37	15.10	15.26	15.26	14.65 to 15.78	x		274.11	
SWW3	286.00	286.50	16.72	16.82	16.82	15.87 to 17.30	x		269.68	
SWW4	282.90	283.60	15.15	15.94	15.94	12.05 to 15.83		x	267.66	15.94
SWW5	275.90	277.02	12.60	12.55	12.55	12.05 to 13.07	x		264.47	
SWW6	270.90	273.06	8.54	9.21	9.21	7.60 to 9.42	x		263.85	
SWW7	273.30	277.93	7.70	7.90	7.90	7.42 to 8.52	x		270.03	
SWW8	275.70	278.24	4.10	4.54	4.54	3.47 to 4.81	x		273.70	
SWW9	283.30	285.55	16.52	16.82	16.82	15.91 to 17.05	x		268.73	
SWW10	279.30	280.43	11.57	12.62	12.62	8.70 to 12.00		x	267.81	12.62
SWW11	271.00	273.50	8.54	8.44	8.44	8.02 to 9.08	x		265.06	
SWW12	270.20	272.82	8.64	9.20	9.20	7.93 to 9.50	x		263.62	
LCW-1	271.40	272.21	8.08	7.51	7.51	7.12 to 8.26	x		264.70	
LCW-2	272.60	274.44	10.32	9.75	9.75	9.36 to 10.50	x		264.69	
LCW-3	283.30	284.36	18.20	18.52	18.52	17.61 to 18.75	x		265.84	
LCW-4	283.80	285.70	17.25	17.20	17.20	17.15 to 18.20	x		268.50	
LR-2	287.50	289.85	12.85	14.38	14.38	12.35 to 16.30	x		275.47	
LR-3	275.50	278.06	7.80	8.78	8.78	7.30 to 11.28	x		269.28	
LR-6	270.90	274.39	9.95	10.80	10.80	9.45 to 13.23	x		263.59	
LR-8	270.00	273.42	9.02	10.40	10.40	8.52 to 12.70	x		263.02	
M-21	270.28	272.32	8.30	9.65	9.65	7.80 to 12.38	x		262.67	
M-22	270.40	273.88	9.62	10.50	10.50	9.12 to 12.40	x		263.38	
M-23	267.98	270.49	11.55	12.64	12.64	10.90 to 14.06	x		257.85	
M-24	276.49	277.94	12.47	14.75	14.75	11.97 to 17.07	x		263.19	
M-25	264.56	265.84	5.35	6.60	6.60	4.85 to 9.48	x		259.24	
M-26	271.85	273.38	6.45	9.82	9.82	5.95 to 10.55	x		263.56	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
06/05/06
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Ever	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.00	10.44	10.44	7.61 to 9.82		x	278.89	10.44
SWW2	286.30	289.37	15.26	15.53	15.53	14.65 to 15.78	x		273.84	
SWW3	286.00	286.50	16.82	16.96	16.96	15.87 to 17.30	x		269.54	
SWW4	282.90	283.60	15.94	16.25	16.25	12.05 to 15.83		x	267.35	16.25
SWW5	275.90	277.02	12.55	12.42	12.42	12.05 to 13.07	x		264.60	
SWW6	270.90	273.06	9.21	9.25	9.25	7.60 to 9.42	x		263.81	
SWW7	273.30	277.93	7.90	7.95	7.95	7.42 to 8.52	x		269.98	
SWW8	275.70	278.24	4.54	4.68	4.68	3.47 to 4.81	x		273.56	
SWW9	283.30	285.55	16.82	17.08	17.08	15.91 to 17.05		x	268.47	17.08
SWW10	279.30	280.43	12.62	13.74	13.74	8.70 to 12.00		x	266.69	13.74
SWW11	271.00	273.50	8.44	8.40	8.40	8.02 to 9.08	x		265.10	
SWW12	270.20	272.82	9.20	10.22	10.22	7.93 to 9.50		x	262.60	10.22
LCW-1	271.40	272.21	7.51	7.38	7.38	7.12 to 8.26	x		264.83	
LCW-2	272.60	274.44	9.75	9.62	9.62	9.36 to 10.50	x		264.82	
LCW-3	283.30	284.36	18.52	18.70	18.70	17.61 to 18.75	x		265.66	
LCW-4	283.80	285.70	17.20	17.18	17.18	17.15 to 18.20	x		268.52	
LR-2	287.50	289.85	14.38			12.35 to 16.30		x	289.85	0.00
LR-3	275.50	278.06	8.78			7.30 to 11.28		x	278.06	0.00
LR-6	270.90	274.39	10.80			9.45 to 13.23		x	274.39	0.00
LR-8	270.00	273.42	10.40			8.52 to 12.70		x	273.42	0.00
M-21	270.28	272.32	9.65			7.80 to 12.38		x	272.32	0.00
M-22	270.40	273.88	10.50			9.12 to 12.40		x	273.88	0.00
M-23	267.98	270.49	12.64			10.90 to 14.06		x	270.49	0.00
M-24	276.49	277.94	14.75			11.97 to 17.07		x	277.94	0.00
M-25	264.56	265.84	6.60			4.85 to 9.48		x	265.84	0.00
M-26	271.85	273.38	9.82			5.95 to 10.55		x	273.38	0.00

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
07/10/06
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.44	10.70	10.70	7.61 to 9.82		x	278.63	10.70
SWW2	286.30	289.37	15.53	15.95	15.95	14.65 to 15.78		x	273.42	15.95
SWW3	286.00	286.50	16.96	17.16	17.16	15.87 to 17.30	x		269.34	
SWW4	282.90	283.60	16.25	16.92	16.92	12.05 to 15.83		x	266.68	16.92
SWW5	275.90	277.02	12.42	12.44	12.44	12.05 to 13.07	x		264.58	
SWW6	270.90	273.06	9.25	9.73	9.73	7.60 to 9.42		x	263.33	9.73
SWW7	273.30	277.93	7.95	8.33	8.33	7.42 to 8.52	x		269.60	
SWW8	275.70	278.24	4.68	6.94	6.94	3.47 to 4.81		x	271.30	6.94
SWW9	283.30	285.55	17.08	17.60	17.60	15.91 to 17.05		x	267.95	17.60
SWW10	279.30	280.43	13.74	14.95	14.95	8.70 to 12.00		x	265.48	14.95
SWW11	271.00	273.50	8.40	8.58	8.58	8.02 to 9.08	x		264.92	
SWW12	270.20	272.82	10.22	12.57	12.57	7.93 to 9.50		x	260.25	12.57
LCW-1	271.40	272.21	7.38	7.39	7.39	7.12 to 8.26	x		264.82	
LCW-2	272.60	274.44	9.62	9.63	9.63	9.36 to 10.50	x		264.81	
LCW-3	283.30	284.36	18.70	18.86	18.86	17.61 to 18.75		x	265.50	18.86
LCW-4	283.80	285.70	17.18	17.22	17.22	17.15 to 18.20	x		268.48	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
08/07/2006

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading 1	Reading 2	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.70	10.13	10.13	9.50 to 10.94	x		279.20	
SWW2	286.30	289.37	15.95	15.82	15.82	14.76 to 16.03	x		273.55	
SWW3	286.00	286.50	17.16	17.11	17.11	16.32 to 17.46	x		269.39	
SWW4	282.90	283.60	16.92	16.03	16.03	15.44 to 16.75	x		267.57	
SWW5	275.90	277.02	12.44	12.26	12.26	11.92 to 13.05	x		264.76	
SWW6	270.90	273.06	9.73	9.31	9.31	8.71 to 9.75	x		263.75	
SWW7	273.30	277.93	8.33	8.24	8.24	7.40 to 8.45	x		269.69	
SWW8	275.70	278.24	6.94	5.75	5.75	4.04 to 5.18		x	272.49	5.75
SWW9	283.30	285.55	17.60	17.78	17.78	16.32 to 17.58		x	267.77	17.78
SWW10	279.30	280.43	14.95	14.10	14.10	12.12 to 14.24	x		266.33	
SWW11	271.00	273.50	8.58	8.44	8.44	7.90 to 8.94	x		265.06	
SWW12	270.20	272.82	12.57	11.68	11.68	8.70 to 10.72		x	261.14	11.68
LCW-1	271.40	272.21	7.39	7.32	7.32	6.88 to 8.01	x		264.89	
LCW-2	272.60	274.44	9.63	9.52	9.52	9.12 to 10.25	x		264.92	
LCW-3	283.30	284.36	18.86	18.92	18.92	18.02 to 19.20	x		265.44	
LCW-4	283.80	285.70	17.22	17.20	17.20	16.68 to 17.70	x		268.50	
LR-2	287.50	289.85	14.38	14.40	14.40	12.35 to 16.30	x		275.45	
LR-3	275.50	278.06	8.78	9.12	9.12	7.30 to 11.28	x		268.94	
LR-6	270.90	274.39	10.80	11.08	11.08	9.45 to 13.23	x		263.31	
LR-8	270.00	273.42	10.40	10.78	10.78	8.52 to 12.70	x		262.64	
M-21	270.28	272.32	9.65	10.07	10.07	7.80 to 12.38	x		262.25	
M-22	270.40	273.88	10.50	10.82	10.82	9.12 to 12.40	x		263.06	
M-23	267.98	270.49	12.64	12.85	12.85	11.05 to 14.06	x		257.64	
M-24	276.49	277.94	14.75	14.96	14.96	11.97 to 17.07	x		262.98	
M-25	264.56	265.84	6.60	7.12	7.12	4.85 to 9.48	x		258.72	
M-26	271.85	273.38	9.82	9.27	9.27	5.95 to 10.55	x		264.11	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
09/11/06
08:00 AM

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.13	10.70	10.70	9.50 to 10.94	x		278.63	
SWW2	286.30	289.37	15.82	16.24	16.24	14.76 to 16.03		x	273.13	16.24
SWW3	286.00	286.50	17.11	17.30	17.30	16.32 to 17.46	x		269.20	
SWW4	282.90	283.60	16.03	16.91	16.91	15.44 to 16.75		x	266.69	16.91
SWW5	275.90	277.02	12.26	12.94	12.94	11.92 to 13.05	x		264.08	
SWW6	270.90	273.06	9.31	9.66	9.66	8.71 to 9.75	x		263.40	
SWW7	273.30	277.93	8.24	8.80	8.80	7.40 to 8.45		x	269.13	8.80
SWW8	275.70	278.24	5.75	8.28	8.28	4.04 to 5.18		x	269.96	8.28
SWW9	283.30	285.55	17.78	18.32	18.32	16.32 to 17.58		x	267.23	18.32
SWW10	279.30	280.43	14.10	15.76	15.76	12.12 to 14.24		x	264.67	15.76
SWW11	271.00	273.50	8.44	9.15	9.15	7.90 to 8.94		x	264.35	9.15
SWW12	270.20	272.82	11.68	14.02	14.02	8.70 to 10.72		x	258.80	14.02
LCW-1	271.40	272.21	7.32	7.85	7.85	6.88 to 8.01	x		264.36	
LCW-2	272.60	274.44	9.52	10.08	10.08	9.12 to 10.25	x		264.36	
LCW-3	283.30	284.36	18.92	19.06	19.06	18.02 to 19.20	x		265.30	
LCW-4	283.80	285.70	17.20	17.12	17.12	16.68 to 17.70	x		268.58	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
10/02/2006

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.70	10.46	10.46	9.50 to 10.94	x		278.87	
SWW2	286.30	289.37	16.24	16.34	16.34	14.76 to 16.03		x	273.03	16.34
SWW3	286.00	286.50	17.30	17.40	17.40	16.32 to 17.46	x		269.10	
SWW4	282.90	283.60	16.91	16.58	16.58	15.44 to 16.75	x		267.02	
SWW5	275.90	277.02	12.94	13.10	13.10	11.92 to 13.05		x	263.92	13.10
SWW6	270.90	273.06	9.66	9.34	9.34	8.71 to 9.75	x		263.72	
SWW7	273.30	277.93	8.80	8.87	8.87	7.40 to 8.45		x	269.06	8.87
SWW8	275.70	278.24	8.28	7.22	7.22	4.04 to 5.18		x	271.02	7.22
SWW9	283.30	285.55	18.32	18.60	18.60	16.32 to 17.58		x	266.95	18.60
SWW10	279.30	280.43	15.76	15.85	15.85	12.12 to 14.24		x	264.58	15.85
SWW11	271.00	273.50	9.15	9.32	9.32	7.90 to 8.94		x	264.18	9.32
SWW12	270.20	272.82	14.02	13.25	13.25	8.70 to 10.72		x	259.57	13.25
LCW-1	271.40	272.21	7.85	8.12	8.12	6.88 to 8.01		x	264.09	8.12
LCW-2	272.60	274.44	10.08	10.36	10.36	9.12 to 10.25		x	264.08	10.36
LCW-3	283.30	284.36	19.06	19.04	19.04	18.02 to 19.20	x		265.32	
LCW-4	283.80	285.70	17.12	17.48	17.48	16.68 to 17.70	x		268.22	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
11/06/2006

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	10.46	8.62	8.62	9.63 to 11.20		x	280.71	8.62
SWW2	286.30	289.37	16.34	16.05	16.05	15.32 to 16.74	x		273.32	
SWW3	286.00	286.50	17.40	17.00	17.00	16.61 to 17.80	x		269.50	
SWW4	282.90	283.60	16.58	13.44	13.44	15.53 to 17.41		x	270.16	13.44
SWW5	275.90	277.02	13.10	12.62	12.62	11.76 to 13.44	x		264.40	
SWW6	270.90	273.06	9.34	7.95	7.95	8.81 to 10.16		x	265.11	7.95
SWW7	273.30	277.93	8.87	8.43	8.43	7.74 to 9.30	x		269.50	
SWW8	275.70	278.24	7.22	4.00	4.00	5.25 to 8.78		x	274.24	4.00
SWW9	283.30	285.55	18.60	17.85	17.85	17.28 to 18.82	x		267.70	
SWW10	279.30	280.43	15.85	9.71	9.71	13.60 to 16.26		x	270.72	9.71
SWW11	271.00	273.50	9.32	8.84	8.84	7.94 to 9.65	x		264.66	
SWW12	270.20	272.82	13.25	8.70	8.70	11.18 to 14.52		x	264.12	8.70
LCW-1	271.40	272.21	8.12	7.85	7.85	6.82 to 8.35	x		264.36	
LCW-2	272.60	274.44	10.36	10.12	10.12	9.02 to 10.58	x		264.32	
LCW-3	283.30	284.36	19.04	18.73	18.73	18.42 to 19.56	x		265.63	
LCW-4	283.80	285.70	17.48	17.33	17.33	16.62 to 17.70	x		268.37	
LR-2	287.50	289.85	14.40	13.38	13.38	12.35 to 14.90	x		276.47	
LR-3	275.50	278.06	9.12	8.00	8.00	7.30 to 9.62	x		270.06	
LR-6	270.90	274.39	11.08	9.96	9.96	9.45 to 11.58	x		264.43	
LR-8	270.00	273.42	10.78	9.35	9.35	8.52 to 12.10	x		264.07	
M-21	270.28	272.32	10.07	8.68	8.68	7.80 to 11.66	x		263.64	
M-22	270.40	273.88	10.82	9.67	9.67	9.12 to 11.32	x		264.21	
M-23	267.98	270.49	12.85	11.50	11.50	11.05 to 13.40	x		258.99	
M-24	276.49	277.94	14.96	12.59	12.59	11.97 to 16.01	x		265.35	
M-25	264.56	265.84	7.12	5.70	5.70	4.85 to 8.62	x		260.14	
M-26	271.85	273.38	9.27	6.97	6.97	5.95 to 10.32	x		266.41	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
12/04/2006

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	8.62	8.40	8.40	9.63 to 11.20		x	280.93	8.40
SWW2	286.30	289.37	16.05	15.58	15.58	15.32 to 16.74	x		273.79	
SWW3	286.00	286.50	17.00	16.72	16.72	16.61 to 17.80	x		269.78	
SWW4	282.90	283.60	13.44	12.80	12.80	15.53 to 17.41		x	270.80	12.80
SWW5	275.90	277.02	12.62	12.38	12.38	11.76 to 13.44	x		264.64	
SWW6	270.90	273.06	7.95	7.97	7.97	8.81 to 10.16		x	265.09	7.97
SWW7	273.30	277.93	8.43	8.10	8.10	7.74 to 9.30	x		269.83	
SWW8	275.70	278.24	4.00	3.96	3.96	5.25 to 8.78		x	274.28	3.96
SWW9	283.30	285.55	17.85	17.00	17.00	17.28 to 18.82		x	268.55	17.00
SWW10	279.30	280.43	9.71	9.30	9.30	13.60 to 16.26		x	271.13	9.30
SWW11	271.00	273.50	8.84	8.55	8.55	7.94 to 9.65	x		264.95	
SWW12	270.20	272.82	8.70	8.40	8.40	11.18 to 14.52		x	264.42	8.40
LCW-1	271.40	272.21	7.85	7.65	7.65	6.82 to 8.35	x		264.56	
LCW-2	272.60	274.44	10.12	9.90	9.90	9.02 to 10.58	x		264.54	
LCW-3	283.30	284.36	18.73	18.55	18.55	18.42 to 19.56	x		265.81	
LCW-4	283.80	285.70	17.33	17.48	17.48	16.62 to 17.70	x		268.22	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
01/08/2007

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	8.40	8.24	8.24	9.63 to 11.20		x	281.09	8.24
SWW2	286.30	289.37	15.58	15.21	15.21	15.32 to 16.74		x	274.16	15.21
SWW3	286.00	286.50	16.72	16.52	16.52	16.61 to 17.80		x	269.98	16.52
SWW4	282.90	283.60	12.80	12.10	12.10	15.53 to 17.41		x	271.50	12.10
SWW5	275.90	277.02	12.38	12.20	12.20	11.76 to 13.44	x		264.82	
SWW6	270.90	273.06	7.97	7.54	7.54	8.81 to 10.16		x	265.52	7.54
SWW7	273.30	277.93	8.10	7.66	7.66	7.74 to 9.30		x	270.27	7.66
SWW8	275.70	278.24	3.96	3.35	3.35	5.25 to 8.78		x	274.89	3.35
SWW9	283.30	285.55	17.00	16.47	16.47	17.28 to 18.82		x	269.08	16.47
SWW10	279.30	280.43	9.30	8.80	8.80	13.60 to 16.26		x	271.63	8.80
SWW11	271.00	273.50	8.55	8.43	8.43	7.94 to 9.65	x		265.07	
SWW12	270.20	272.82	8.40	7.93	7.93	11.18 to 14.52		x	264.89	7.93
LCW-1	271.40	272.21	7.65	7.75	7.75	6.82 to 8.35	x		264.46	
LCW-2	272.60	274.44	9.90	9.98	9.98	9.02 to 10.58	x		264.46	
LCW-3	283.30	284.36	18.55	18.44	18.44	18.42 to 19.56	x		265.92	
LCW-4	283.80	285.70	17.48	16.95	16.95	16.62 to 17.70	x		268.75	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
02/12/2007

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Water Elevation	Reading 3
SWW1	286.20	289.33	8.40	9.74	9.74	7.90 to 9.12		x	279.59	9.74
SWW2	286.30	289.37	15.58	15.48	15.48	15.08 to 16.55	x		273.89	
SWW3	286.00	286.50	16.72	16.80	16.80	16.22 to 17.50	x		269.70	
SWW4	282.90	283.60	12.80	15.45	15.45	12.30 to 13.94		x	268.15	15.45
SWW5	275.90	277.02	12.38	12.60	12.60	11.88 to 13.12	x		264.42	
SWW6	270.90	273.06	7.97	8.73	8.73	7.45 to 8.47		x	264.33	8.73
SWW7	273.30	277.93	8.10	7.95	7.95	7.60 to 8.93	x		269.98	
SWW8	275.70	278.24	3.96	4.25	4.25	3.46 to 4.50	x		273.99	
SWW9	283.30	285.55	17.00	16.68	16.68	16.50 to 18.35	x		268.87	
SWW10	279.30	280.43	9.30	12.16	12.16	8.80 to 10.21		x	268.27	12.16
SWW11	271.00	273.50	8.55	8.50	8.50	8.05 to 9.34	x		265.00	
SWW12	270.20	272.82	8.40	9.05	9.05	7.90 to 9.20	x		263.77	
LCW-1	271.40	272.21	7.65	7.51	7.51	7.15 to 8.35	x		264.70	
LCW-2	272.60	274.44	9.90	9.74	9.74	9.40 to 10.62	x		264.70	
LCW-3	283.30	284.36	18.55	18.64	18.64	18.05 to 19.23	x		265.72	
LCW-4	283.80	285.70	17.48	17.05	17.05	16.83 to 17.98	x		268.65	
LR-2	287.50	289.85	13.38	13.75	13.75	12.35 to 14.90	x		276.10	
LR-3	275.50	278.06	8.00	8.34	8.34	7.30 to 9.62	x		269.72	
LR-6	270.90	274.39	9.96	10.55	10.55	9.45 to 11.58	x		263.84	
LR-8	270.00	273.42	9.35	10.76	10.76	8.52 to 11.28	x		262.66	
M-21	270.28	272.32	8.68	10.18	10.18	7.80 to 10.57	x		262.14	
M-22	270.40	273.88	9.67	10.28	10.28	9.12 to 11.32	x		263.60	
M-23	267.98	270.49	11.50	12.92	12.92	11.00 to 13.35	x		257.57	
M-24	276.49	277.94	12.59	NA	NA	11.97 to 15.46		x	277.94	NA
M-25	264.56	265.84	5.70	NA	NA	4.85 to 7.62		x	265.84	NA
M-26	271.85	273.38	6.97	NA	NA	5.95 to 10.32		x	273.38	NA

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
03/12/2007

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Event	Reading 1	Reading 2	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	9.74	9.23	9.23	7.90 to 9.12		x	280.10	9.23
SWW2	286.30	289.37	15.48	15.55	15.55	15.08 to 16.55	x		273.82	
SWW3	286.00	286.50	16.80	16.78	16.78	16.22 to 17.50	x		269.72	
SWW4	282.90	283.60	15.45	14.66	14.66	12.30 to 13.94		x	268.94	14.66
SWW5	275.90	277.02	12.60	12.34	12.34	11.88 to 13.12	x		264.68	
SWW6	270.90	273.06	8.73	8.22	8.22	7.45 to 8.47	x		264.84	
SWW7	273.30	277.93	7.95	7.80	7.80	7.60 to 8.93	x		270.13	
SWW8	275.70	278.24	4.25	3.94	3.94	3.46 to 4.50	x		274.30	
SWW9	283.30	285.55	16.68	16.63	16.63	16.50 to 18.35	x		268.92	
SWW10	279.30	280.43	12.16	10.25	10.25	8.80 to 10.21		x	270.18	10.25
SWW11	271.00	273.50	8.50	8.33	8.33	8.05 to 9.34	x		265.17	
SWW12	270.20	272.82	9.05	8.63	8.63	7.90 to 9.20	x		264.19	
LCW-1	271.40	272.21	7.51	7.46	7.46	7.15 to 8.35	x		264.75	
LCW-2	272.60	274.44	9.74	9.72	9.72	9.40 to 10.62	x		264.72	
LCW-3	283.30	284.36	18.64	18.65	18.65	18.05 to 19.23	x		265.71	
LCW-4	283.80	285.70	17.05	17.30	17.30	16.83 to 17.98	x		268.40	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
04/02/2007

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	9.23	8.20	8.20	7.90 to 9.12	x		281.13	
SWW2	286.30	289.37	15.55	15.05	15.05	15.08 to 16.55		x	274.32	15.05
SWW3	286.00	286.50	16.78	16.28	16.28	16.22 to 17.50	x		270.22	
SWW4	282.90	283.60	14.66	12.86	12.86	12.30 to 13.94	x		270.74	
SWW5	275.90	277.02	12.34	11.60	11.60	11.88 to 13.12		x	265.42	11.60
SWW6	270.90	273.06	8.22	8.08	8.08	7.45 to 8.47	x		264.98	
SWW7	273.30	277.93	7.80	7.06	7.06	7.60 to 8.93		x	270.87	7.06
SWW8	275.70	278.24	3.94	3.50	3.50	3.46 to 4.50	x		274.74	
SWW9	283.30	285.55	16.63	15.96	15.96	16.50 to 18.35		x	269.59	15.96
SWW10	279.30	280.43	10.25	9.48	9.48	8.80 to 10.21	x		270.95	
SWW11	271.00	273.50	8.33	7.70	7.70	8.05 to 9.34		x	265.80	7.70
SWW12	270.20	272.82	8.63	8.12	8.12	7.90 to 9.20	x		264.70	
LCW-1	271.40	272.21	7.46	6.95	6.95	7.15 to 8.35		x	265.26	6.95
LCW-2	272.60	274.44	9.72	9.16	9.16	9.40 to 10.62		x	265.28	9.16
LCW-3	283.30	284.36	18.65	18.35	18.35	18.05 to 19.23	x		266.01	
LCW-4	283.80	285.70	17.30	16.92	16.92	16.83 to 17.98	x		268.78	

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
05/07/2007

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading 2	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	8.20	9.18	9.18	8.73 to 10.24	x		280.15	
SWW2	286.30	289.37	15.05	14.91	14.91	14.98 to 16.05		x	274.46	14.91
SWW3	286.00	286.50	16.28	16.35	16.35	16.28 to 17.30	x		270.15	
SWW4	282.90	283.60	12.86	14.92	14.92	14.16 to 15.95	x		268.68	
SWW5	275.90	277.02	11.60	11.74	11.74	11.84 to 13.10		x	265.28	11.74
SWW6	270.90	273.06	8.08	8.85	8.85	7.72 to 9.23	x		264.21	
SWW7	273.30	277.93	7.06	7.20	7.20	7.30 to 8.45		x	270.73	7.20
SWW8	275.70	278.24	3.50	4.05	4.05	3.44 to 4.75	x		274.19	
SWW9	283.30	285.55	9.48	15.92	15.92	16.13 to 17.18		x	269.63	15.92
SWW10	279.30	280.43	7.70	11.28	11.28	9.75 to 12.66	x		269.15	
SWW11	271.00	273.50	8.12	7.50	7.50	7.83 to 9.00		x	266.00	7.50
SWW12	270.20	272.82	6.95	8.60	8.60	8.13 to 9.55	x		264.22	
LCW-1	271.40	272.21	9.16	6.62	6.62	6.96 to 8.01		x	265.59	6.62
LCW-2	272.60	274.44	18.35	8.86	8.86	9.22 to 10.24		x	265.58	8.86
LCW-3	283.30	284.36	16.92	18.42	18.42	18.14 to 19.15	x		265.94	
LCW-4	283.80	285.70	17.30	16.75	16.75	16.55 to 17.80	x		268.95	
LR-2	287.50	289.85	13.75	12.11	12.11	12.88 to 14.90		x	277.74	12.11
LR-3	275.50	278.06	8.34	7.92	7.92	7.50 to 9.62	x		270.14	
LR-6	270.90	274.39	10.55	10.23	10.23	9.46 to 11.58	x		264.16	
LR-8	270.00	273.42	10.76	10.24	10.24	8.85 to 11.28	x		263.18	
M-21	270.28	272.32	10.18	9.90	9.90	8.18 to 10.68	x		262.42	
M-22	270.40	273.88	10.28	10.18	10.18	9.17 to 11.32	x		263.70	
M-23	267.98	270.49	12.92	12.76	12.76	11.00 to 13.42	x		257.73	
M-24	276.49	277.94				11.97 to 15.46		x	277.94	0.00
M-25	264.56	265.84				4.85 to 7.62		x	265.84	0.00
M-26	271.85	273.38				5.95 to 10.32		x	273.38	0.00

OBG Inc. of North America
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels
06/11/2007

Well Number	Ground Elevation	Riser Elevation	DTW During Previous Even	Reading	Reading 2	Acceptable Range for DTW	Within Range? Yes	Within Range? No	Ground-Wate Elevation	Reading 3
SWW1	286.20	289.33	9.18	10.36	10.36	8.73 to 10.24		x	278.97	10.36
SWW2	286.30	289.37	14.91	15.30	15.30	14.98 to 16.05	x		274.07	
SWW3	286.00	286.50	16.35	16.65	16.65	16.28 to 17.30	x		269.85	
SWW4	282.90	283.60	14.92	16.42	16.42	14.16 to 15.95		x	267.18	16.42
SWW5	275.90	277.02	11.74	11.81	11.81	11.84 to 13.10		x	265.21	11.81
SWW6	270.90	273.06	8.85	9.52	9.52	7.72 to 9.23		x	263.54	9.52
SWW7	273.30	277.93	7.20	7.50	7.50	7.30 to 8.45	x		270.43	
SWW8	275.70	278.24	4.05	4.84	4.84	3.44 to 4.75		x	273.40	4.84
SWW9	283.30	285.55	15.92	16.52	16.52	16.13 to 17.18	x		269.03	
SWW10	279.30	280.43	11.28	13.53	13.53	9.75 to 12.66		x	266.90	13.53
SWW11	271.00	273.50	7.50	7.58	7.58	7.83 to 9.00		x	265.92	7.58
SWW12	270.20	272.82	8.60	10.42	10.42	8.13 to 9.55		x	262.40	10.42
LCW-1	271.40	272.21	6.62	6.57	6.57	6.96 to 8.01		x	265.64	6.57
LCW-2	272.60	274.44	8.86	8.80	8.80	9.22 to 10.24		x	265.64	8.80
LCW-3	283.30	284.36	18.42	18.68	18.68	18.14 to 19.15	x		265.68	
LCW-4	283.80	285.70	16.75	16.75	16.75	16.55 to 17.80	x		268.95	

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

July 9, 2007
11:00 AM

Well	Ground	Riser	July 2007				Within Range?			Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	10.75	10.75	10.75	10.11	9.14	11.12	Yes	278.58
SWW2	286.30	289.37	15.73	15.73	15.73	16.25	15.03	16.50	Yes	273.64
SWW3	286.00	286.50	16.86	16.86	16.86	17.38	15.92	17.91	Yes	269.64
SWW4	282.90	283.60	16.87	16.87	16.87	15.64	15.67	17.47	Yes	266.73
SWW5	275.90	277.02	12.00	12.00	12.00	12.64	13.06	14.56	No	265.02
SWW6	270.90	273.06	9.72	9.72	9.72	9.26	7.71	10.28	Yes	263.34
SWW7	273.30	277.93	8.00	8.00	8.00	8.33	7.31	8.96	Yes	269.93
SWW8	275.70	278.24	7.69	7.69	7.69	6.88	3.53	6.68	No	270.55
SWW9	283.30	285.55	17.20	17.20	17.20	18.09	15.76	18.12	Yes	268.35
SWW10	279.30	280.43	14.98	14.98	14.98	14.03	10.73	15.04	Yes	265.45
SWW11	271.00	273.50	7.92	7.92	7.92	8.72	8.95	10.77	No	265.58
SWW12	270.20	272.82	13.31	13.31	13.31	11.88	8.88	12.62	No	259.51
LCW-1	271.40	272.21	6.82	6.82	6.82	7.73	8.38	10.71	No	265.39
LCW-2	272.60	274.44	9.05	9.05	9.05	9.98	10.61	12.96	No	265.39
LCW-3	283.30	284.36	18.85	18.85	18.85	18.72	18.09	19.34	Yes	265.51
LCW-4	283.80	285.70	16.82	16.82	16.82	17.43	18.00	19.95	No	268.88
OS-1	269.63	272.10				12.78				
OI-1	269.14	272.00				12.48				
OS-3	274.63	277.89				15.96				
OD-3	274.96	277.85				15.81				
LD-3	275.80	278.62				7.98				
LD-4	276.30	279.25				13.50				
LD-5	270.02	272.94				12.19				
LS-6	271.40	274.14				11.78				
LD-6	270.09	274.03				10.68				
LD-8	269.90	272.83				10.97				
LR-2	287.50	289.85				14.53				
LR-3	275.50	278.06				10.33				
LR-6	270.90	274.39				11.79				
LR-8	270.00	273.42				11.62				
M-21	270.28	272.32				11.26				
M-22	270.40	273.88				11.71				
M-23	267.98	270.49				13.54				

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

August 7, 2007
11:00 AM

Well	Ground	Riser	August 2007						Within Range?	Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	11.00	11.00	11.00	10.11	9.14	11.12	Yes	278.33
SWW2	286.30	289.37	16.20	16.20	16.20	16.25	15.03	16.50	Yes	273.17
SWW3	286.00	286.50	17.08	17.08	17.08	17.38	15.92	17.91	Yes	269.42
SWW4	282.90	283.60	17.25	17.25	17.25	15.64	15.67	17.47	Yes	266.35
SWW5	275.90	277.02	12.38	12.38	12.38	12.64	13.06	14.56	No	264.64
SWW6	270.90	273.06	10.00	10.00	10.00	9.26	7.71	10.28	Yes	263.06
SWW7	273.30	277.93	8.43	8.43	8.43	8.33	7.31	8.96	Yes	269.50
SWW8	275.70	278.24	9.01	9.01	9.01	6.88	3.53	6.68	No	269.23
SWW9	283.30	285.55	17.80	17.80	17.80	18.09	15.76	18.12	Yes	267.75
SWW10	279.30	280.43	16.32	16.32	16.32	14.03	10.73	15.04	No	264.11
SWW11	271.00	273.50	8.42	8.42	8.42	8.72	8.95	10.77	No	265.08
SWW12	270.20	272.82	14.50	14.50	14.50	11.88	8.88	12.62	No	258.32
LCW-1	271.40	272.21	7.22	7.22	7.22	7.19	8.38	10.71	No	264.99
LCW-2	272.60	274.44	9.46	9.46	9.46	9.98	10.61	12.96	No	264.98
LCW-3	283.30	284.36	19.01	19.01	19.01	18.72	18.09	19.34	Yes	265.35
LCW-4	283.80	285.70	16.92	16.92	16.92	17.43	18.00	19.95	No	268.78
OS-1	269.63	272.10				12.78				
OI-1	269.14	272.00				12.48				
OS-3	274.63	277.89				15.96				
OD-3	274.96	277.85				15.81				
LD-3	275.80	278.62				7.98				
LD-4	276.30	279.25				13.50				
LD-5	270.02	272.94				12.19				
LS-6	271.40	274.14				11.78				
LD-6	270.09	274.03				10.68				
LD-8	269.90	272.83				10.97				
LR-2	287.50	289.85	15.32	15.32	15.32	14.53			No	274.53
LR-3	275.50	278.06	10.87	10.87	10.87	10.33			No	267.19
LR-6	270.90	274.39	12.47	12.47	12.47	11.79			No	261.92
LR-8	270.00	273.42	12.30	12.30	12.30	11.62			No	261.12
M-21	270.28	272.32	11.88	11.88	11.88	11.26			No	260.44
M-22	270.40	273.88	12.41	12.41	12.41	11.71			No	261.47
M-23	267.98	270.49	14.32	14.32	14.32	13.54			No	256.17

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

September 10, 2007
9:30 AM

Well	Ground	Riser	September 2007			Within Range?				Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	11.66	11.66	11.66	10.11	9.14	11.12	No	277.67
SWW2	286.30	289.37	16.73	16.73	16.73	16.25	15.03	16.50	No	272.64
SWW3	286.00	286.50	17.38	17.38	17.38	17.38	15.92	17.91	Yes	269.12
SWW4	282.90	283.60	17.95	17.95	17.95	15.64	15.67	17.47	No	265.65
SWW5	275.90	277.02	13.04	13.04	13.04	12.64	13.06	14.56	No	263.98
SWW6	270.90	273.06	11.77	11.77	11.77	9.26	7.71	10.28	No	261.29
SWW7	273.30	277.93	8.84	8.84	8.84	8.33	7.31	8.96	Yes	269.09
SWW8	275.70	278.24	10.54	10.54	10.54	6.88	3.53	6.68	No	267.70
SWW9	283.30	285.55	18.75	18.75	18.75	18.09	15.76	18.12	No	266.80
SWW10	279.30	280.43	18.22	18.22	18.22	14.03	10.73	15.04	No	262.21
SWW11	271.00	273.50	9.00	9.00	9.00	8.72	8.95	10.77	Yes	264.50
SWW12	270.20	272.82	15.87	15.87	15.87	11.88	8.88	12.62	No	256.95
LCW-1	271.40	272.21	7.77	7.77	7.77	7.19	8.38	10.71	No	264.44
LCW-2	272.60	274.44	10.02	10.02	10.02	9.98	10.61	12.96	No	264.42
LCW-3	283.30	284.36	19.25	19.25	19.25	18.72	18.09	19.34	Yes	265.11
LCW-4	283.80	285.70	17.10	17.10	17.10	17.43	18.00	19.95	No	268.60
OS-1	269.63	272.10				12.78				
OI-1	269.14	272.00				12.48				
OS-3	274.63	277.89				15.96				
OD-3	274.96	277.85				15.81				
LD-3	275.80	278.62				7.98				
LD-4	276.30	279.25				13.50				
LD-5	270.02	272.94				12.19				
LS-6	271.40	274.14				11.78				
LD-6	270.09	274.03				10.68				
LD-8	269.90	272.83				10.97				
LR-2	287.50	289.85				14.53				
LR-3	275.50	278.06				10.33				
LR-6	270.90	274.39				11.79				
LR-8	270.00	273.42				11.62				
M-21	270.28	272.32				11.26				
M-22	270.40	273.88				11.71				
M-23	267.98	270.49				13.54				

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

October 1, 2007
9:30 AM

Well	Ground	Riser	October 2007			Within Range?				Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	11.90	11.90	11.90	10.11	9.14	11.12	No	277.43
SWW2	286.30	289.37	17.03	17.03	17.03	16.25	15.03	16.50	No	272.34
SWW3	286.00	286.50	17.6	17.60	17.60	17.38	15.92	17.91	Yes	268.90
SWW4	282.90	283.60	17.46	17.46	17.46	15.64	15.67	17.47	Yes	266.14
SWW5	275.90	277.02	13.40	13.40	13.40	12.64	13.06	14.56	Yes	263.62
SWW6	270.90	273.06	10.03	10.03	10.03	9.26	7.71	10.28	Yes	263.03
SWW7	273.30	277.93	9.11	9.11	9.11	8.33	7.31	8.96	No	268.82
SWW8	275.70	278.24	11.15	11.15	11.15	6.88	3.53	6.68	No	267.09
SWW9	283.30	285.55	19.34	19.34	19.34	18.09	15.76	18.12	No	266.21
SWW10	279.30	280.43	18.80	18.80	18.80	14.03	10.73	15.04	No	261.63
SWW11	271.00	273.50	9.50	9.50	9.50	8.72	8.95	10.77	Yes	264.00
SWW12	270.20	272.82	16.08	16.08	16.08	11.88	8.88	12.62	No	256.74
LCW-1	271.40	272.21	8.42	8.42	8.42	7.19	8.38	10.71	Yes	263.79
LCW-2	272.60	274.44	10.72	10.72	10.72	9.98	10.61	12.96	Yes	263.72
LCW-3	283.30	284.36	19.20	19.20	19.20	18.72	18.09	19.34	Yes	265.16
LCW-4	283.80	285.70	17.65	17.65	17.65	17.43	18.00	19.95	No	268.05
OS-1	269.63	272.10				12.78				
OI-1	269.14	272.00				12.48				
OS-3	274.63	277.89				15.96				
OD-3	274.96	277.85				15.81				
LD-3	275.80	278.62				7.98				
LD-4	276.30	279.25				13.50				
LD-5	270.02	272.94				12.19				
LS-6	271.40	274.14				11.78				
LD-6	270.09	274.03				10.68				
LD-8	269.90	272.83				10.97				
LR-2	287.50	289.85				14.53				
LR-3	275.50	278.06				10.33				
LR-6	270.90	274.39				11.79				
LR-8	270.00	273.42				11.62				
M-21	270.28	272.32				11.26				
M-22	270.40	273.88				11.71				
M-23	267.98	270.49				13.54				

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

November 5, 2007
8:05 AM

Well	Ground	Riser	November 2007			Within Range?				Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	11.62	11.62	11.62	10.11	9.14	11.12	No	277.71
SWW2	286.30	289.37	17.40	17.40	17.40	16.25	15.03	16.50	No	271.97
SWW3	286.00	286.50	17.83	17.83	17.83	17.38	15.92	17.91	Yes	268.67
SWW4	282.90	283.60	17.12	17.12	17.12	15.64	15.67	17.47	Yes	266.48
SWW5	275.90	277.02	13.14	13.14	13.14	12.64	13.06	14.56	Yes	263.88
SWW6	270.90	273.06	9.58	9.58	9.58	9.26	7.71	10.28	Yes	263.48
SWW7	273.30	277.93	9.43	9.43	9.43	8.33	7.31	8.96	No	268.50
SWW8	275.70	278.24	11.38	11.38	11.38	6.88	3.53	6.68	No	266.86
SWW9	283.30	285.55	20.05	20.05	20.05	18.09	15.76	18.12	No	265.50
SWW10	279.30	280.43	18.65	18.65	18.65	14.03	10.73	15.04	No	261.78
SWW11	271.00	273.50	9.54	9.54	9.54	8.72	8.95	10.77	Yes	263.96
SWW12	270.20	272.82	15.24	15.24	15.24	11.88	8.88	12.62	No	257.58
LCW-1	271.40	272.21	8.20	8.20	8.20	7.19	8.38	10.71	No	264.01
LCW-2	272.60	274.44	10.44	10.44	10.44	9.98	10.61	12.96	No	264.00
LCW-3	283.30	284.36	19.56	19.56	19.56	18.72	18.09	19.34	No	264.80
LCW-4	283.80	285.70	17.40	17.40	17.40	17.43	18.00	19.95	No	268.30
OS-1	269.63	272.10	14.75	14.75	14.75	12.78			No	257.35
OI-1	269.14	272.00	14.05	14.05	14.05	12.48			No	257.95
OS-3	274.63	277.89	18.58	18.58	18.58	15.96			No	259.31
OD-3	274.96	277.85	18.42	18.42	18.42	15.81			No	259.43
LD-3	275.80	278.62	11.77	11.77	11.77	7.98			No	266.85
LD-4	276.30	279.25	17.15	17.15	17.15	13.50			No	262.10
LD-5	270.02	272.94	15.75	15.75	15.75	12.19			No	257.19
LS-6	271.40	274.14	13.98	13.98	13.98	11.78			No	260.16
LD-6	270.09	274.03	11.78	11.78	11.78	10.68			No	262.25
LD-8	269.90	272.83	15.38	15.38	15.38	10.97			No	257.45
LR-2	287.50	289.85	14.96	14.96	14.96	14.53			No	274.89
LR-3	275.50	278.06	12.00	12.00	12.00	10.33			No	266.06
LR-6	270.90	274.39	12.72	12.72	12.72	11.79			No	261.67
LR-8	270.00	273.42	12.84	12.84	12.84	11.62			No	260.58
M-21	270.28	272.32	12.5	12.50	12.50	11.26			No	259.82
M-22	270.40	273.88	12.62	12.62	12.62	11.71			No	261.26
M-23	267.98	270.49	14.25	14.25	14.25	13.54			No	256.24

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

December 3, 2007
8:00 AM

Well	Ground	Riser	December 2007			Within Range?				Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	9.96	9.96	9.96	10.11	9.14	11.12	Yes	279.37
SWW2	286.30	289.37	17.18	17.18	17.18	16.25	15.03	16.50	No	272.19
SWW3	286.00	286.50	17.57	17.57	17.57	17.38	15.92	17.91	Yes	268.93
SWW4	282.90	283.60	14.25	14.25	14.25	15.64	15.67	17.47	No	269.35
SWW5	275.90	277.02	12.90	12.90	12.90	12.64	13.06	14.56	No	264.12
SWW6	270.90	273.06	8.23	8.23	8.23	9.26	7.71	10.28	Yes	264.83
SWW7	273.30	277.93	8.92	8.92	8.92	8.33	7.31	8.96	Yes	269.01
SWW8	275.70	278.24	5.85	5.85	5.85	6.88	3.53	6.68	Yes	272.39
SWW9	283.30	285.55	19.65	19.65	19.65	18.09	15.76	18.12	No	265.90
SWW10	279.30	280.43	12.10	12.10	12.10	14.03	10.73	15.04	Yes	268.33
SWW11	271.00	273.50	9.45	9.45	9.45	8.72	8.95	10.77	Yes	264.05
SWW12	270.20	272.82	11.55	11.55	11.55	11.88	8.88	12.62	Yes	261.27
LCW-1	271.40	272.21	8.65	8.65	8.65	7.19	8.38	10.71	Yes	263.56
LCW-2	272.60	274.44	10.92	10.92	10.92	9.98	10.61	12.96	Yes	263.52
LCW-3	283.30	284.36	18.72	18.72	18.72	18.72	18.09	19.34	Yes	265.64
LCW-4	283.80	285.70	17.54	17.54	17.54	17.43	18.00	19.95	No	268.16
OS-1	269.63	272.10				12.78				
OI-1	269.14	272.00				12.48				
OS-3	274.63	277.89				15.96				
OD-3	274.96	277.85				15.81				
LD-3	275.80	278.62				7.98				
LD-4	276.30	279.25				13.50				
LD-5	270.02	272.94				12.19				
LS-6	271.40	274.14				11.78				
LD-6	270.09	274.03				10.68				
LD-8	269.90	272.83				10.97				
LR-2	287.50	289.85				14.53				
LR-3	275.50	278.06				10.33				
LR-6	270.90	274.39				11.79				
LR-8	270.00	273.42				11.62				
M-21	270.28	272.32				11.26				
M-22	270.40	273.88				11.71				
M-23	267.98	270.49				13.54				

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

January 7, 2008
9:00 AM

Well	Ground	Riser	January 2008			Within Range?				Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	8.44	8.44	8.44	10.11	9.14	11.12	No	280.89
SWW2	286.30	289.37	16.35	16.35	16.35	16.25	15.03	16.50	Yes	273.02
SWW3	286.00	286.50	17.02	17.02	17.02	17.38	15.92	17.91	Yes	269.48
SWW4	282.90	283.60	13.71	13.71	13.71	15.64	15.67	17.47	No	269.89
SWW5	275.90	277.02	12.87	12.87	12.87	12.64	13.06	14.56	No	264.15
SWW6	270.90	273.06	8.15	8.15	8.15	9.26	7.71	10.28	Yes	264.91
SWW7	273.30	277.93	8.33	8.33	8.33	8.33	7.31	8.96	Yes	269.60
SWW8	275.70	278.24	3.65	3.65	3.65	6.88	3.53	6.68	Yes	274.59
SWW9	283.30	285.55	18.48	18.48	18.48	18.09	15.76	18.12	No	267.07
SWW10	279.30	280.43	10.62	10.62	10.62	14.03	10.73	15.04	No	269.81
SWW11	271.00	273.50	9.00	9.00	9.00	8.72	8.95	10.77	Yes	264.50
SWW12	270.20	272.82	8.48	8.48	8.48	11.88	8.88	12.62	No	264.34
LCW-1	271.40	272.21	8.28	8.28	8.28	7.19	8.38	10.71	No	263.93
LCW-2	272.60	274.44	10.52	10.52	10.52	9.98	10.61	12.96	No	263.92
LCW-3	283.30	284.36	18.43	18.43	18.43	18.72	18.09	19.34	Yes	265.93
LCW-4	283.80	285.70	17.86	17.86	17.86	17.43	18.00	19.95	No	267.84
OS-1	269.63	272.10				12.78				
OI-1	269.14	272.00				12.48				
OS-3	274.63	277.89				15.96				
OD-3	274.96	277.85				15.81				
LD-3	275.80	278.62				7.98				
LD-4	276.30	279.25				13.50				
LD-5	270.02	272.94				12.19				
LS-6	271.40	274.14				11.78				
LD-6	270.09	274.03				10.68				
LD-8	269.90	272.83				10.97				
LR-2	287.50	289.85				14.53				
LR-3	275.50	278.06				10.33				
LR-6	270.90	274.39				11.79				
LR-8	270.00	273.42				11.62				
M-21	270.28	272.32				11.26				
M-22	270.40	273.88				11.71				
M-23	267.98	270.49				13.54				

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

February 4, 2008
9:00 AM

Well	Ground	Riser		February 2008				Within Range?			Ground-Water
Number	Elevation	Elevation		Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33		8.46	8.46	8.46	10.11	9.14	11.12	No	280.87
SWW2	286.30	289.37		16.00	16.00	16.00	16.25	15.03	16.50	Yes	273.37
SWW3	286.00	286.50		19.94	19.94	19.94	17.38	15.92	17.91	No	266.56
SWW4	282.90	283.60		13.30	13.30	13.30	15.64	15.67	17.47	No	270.30
SWW5	275.90	277.02		12.85	12.85	12.85	12.64	13.06	14.56	No	264.17
SWW6	270.90	273.06		8.16	8.16	8.16	9.26	7.71	10.28	Yes	264.90
SWW7	273.30	277.93		8.10	8.10	8.10	8.33	7.31	8.96	Yes	269.83
SWW8	275.70	278.24		3.80	3.80	3.80	6.88	3.53	6.68	Yes	274.44
SWW9	283.30	285.55		17.66	17.66	17.66	18.09	15.76	18.12	Yes	267.89
SWW10	279.30	280.43		10.12	10.12	10.12	14.03	10.73	15.04	No	270.31
SWW11	271.00	273.50		8.81	8.81	8.81	8.72	8.95	10.77	No	264.69
SWW12	270.20	272.82		8.35	8.35	8.35	11.88	8.88	12.62	No	264.47
LCW-1	271.40	272.21		8.06	8.06	8.06	7.19	8.38	10.71	No	264.15
LCW-2	272.60	274.44		10.31	10.31	10.31	9.98	10.61	12.96	No	264.13
LCW-3	283.30	284.36		18.26	18.26	18.26	18.72	18.09	19.34	Yes	266.10
LCW-4	283.80	285.70		17.95	17.95	17.95	17.43	18.00	19.95	No	267.75
OS-1	269.63	272.10		10.8	10.80	10.80	12.78			No	261.30
OI-1	269.14	272.00		10.9	10.90	10.90	12.48			No	261.10
OS-3	274.63	277.89		13.34	13.34	13.34	15.96			No	264.55
OD-3	274.96	277.85		13.2	13.20	13.20	15.81			No	264.65
LD-3	275.80	278.62		4.18	4.18	4.18	7.98			No	274.44
LD-4	276.30	279.25		9.84	9.84	9.84	13.50			No	269.41
LD-5	270.02	272.94		8.63	8.63	8.63	12.19			No	264.31
LS-6	271.40	274.14		8.75	8.75	8.75	11.37			No	265.39
LD-6	270.09	274.03		9.58	9.58	9.58	10.68			No	264.45
LD-8	269.90	272.83		6.56	6.56	6.56	10.97			No	266.27
LR-2	287.50	289.85		13.3	13.30	13.30	14.53			No	276.55
LR-3	275.50	278.06		8.12	8.12	8.12	10.33			No	269.94
LR-6	270.90	274.39		10.18	10.18	10.18	11.79			No	264.21
LR-8	270.00	273.42		9.73	9.73	9.73	11.62			No	263.69
M-21	270.28	272.32		9.40	9.40	9.40	11.26			No	262.92
M-22	270.40	273.88		10.11	10.11	10.11	11.71			No	263.77
M-23	267.98	270.49		12.05	12.05	12.05	13.54			No	258.44

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

March 3, 2008
9:00 AM

Well	Ground	Riser	March 2008			Within Range?				Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	8.72	8.72	8.72	10.11	9.14	11.12	No	280.61
SWW2	286.30	289.37	15.58	15.58	15.58	16.25	15.03	16.50	Yes	273.79
SWW3	286.00	286.50	16.75	16.75	16.75	17.38	15.92	17.91	Yes	269.75
SWW4	282.90	283.60	14.36	14.36	14.36	15.64	15.67	17.47	No	269.24
SWW5	275.90	277.02	12.48	12.48	12.48	12.64	13.06	14.56	No	264.54
SWW6	270.90	273.06	8.40	8.40	8.40	9.26	7.71	10.28	Yes	264.66
SWW7	273.30	277.93	7.75	7.75	7.75	8.33	7.31	8.96	Yes	270.18
SWW8	275.70	278.24	3.90	3.90	3.90	6.88	3.53	6.68	Yes	274.34
SWW9	283.30	285.55	17.08	17.08	17.08	18.09	15.76	18.12	Yes	268.47
SWW10	279.30	280.43	10.78	10.78	10.78	14.03	10.73	15.04	Yes	269.65
SWW11	271.00	273.50	8.52	8.52	8.52	8.72	8.95	10.77	No	264.98
SWW12	270.20	272.82	8.48	8.48	8.48	11.88	8.88	12.62	No	264.34
LCW-1	271.40	272.21	7.85	7.85	7.85	7.19	8.38	10.71	No	264.36
LCW-2	272.60	274.44	10.10	10.10	10.10	9.98	10.61	12.96	No	264.34
LCW-3	283.30	284.36	18.07	18.07	18.07	18.72	18.09	19.34	No	266.29
LCW-4	283.80	285.70	17.95	17.95	17.95	17.43	18.00	19.95	No	267.75
OS-1	269.63	272.10				12.78				
OI-1	269.14	272.00				12.48				
OS-3	274.63	277.89				15.96				
OD-3	274.96	277.85				15.81				
LD-3	275.80	278.62				7.98				
LD-4	276.30	279.25				13.50				
LD-5	270.02	272.94				12.19				
LS-6	271.40	274.14				11.78				
LD-6	270.09	274.03				10.68				
LD-8	269.90	272.83				10.97				
LR-2	287.50	289.85				14.53				
LR-3	275.50	278.06				10.33				
LR-6	270.90	274.39				11.79				
LR-8	270.00	273.42				11.62				
M-21	270.28	272.32				11.26				
M-22	270.40	273.88				11.71				
M-23	267.98	270.49				13.54				

O'Brien Gere Operation
PAS Site
Oswego, New York
Pre-Pumping Monitoring Well Levels

April 7, 2008
9:30 AM

Well	Ground	Riser	April 2008			Within Range?				Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	8.35	8.35	8.35	10.11	9.14	11.12	No	280.98
SWW2	286.30	289.37	15.22	15.22	15.22	16.25	15.03	16.50	Yes	274.15
SWW3	286.00	286.50	16.50	16.50	16.50	17.38	15.92	17.91	Yes	270.00
SWW4	282.90	283.60	13.30	13.30	13.30	15.64	15.67	17.47	No	270.30
SWW5	275.90	277.02	12.13	12.13	12.13	12.64	13.06	14.56	No	264.89
SWW6	270.90	273.06	8.35	8.35	8.35	9.26	7.71	10.28	Yes	264.71
SWW7	273.30	277.93	7.55	7.55	7.55	8.33	7.31	8.96	Yes	270.38
SWW8	275.70	278.24	3.84	3.84	3.84	6.88	3.53	6.68	Yes	274.40
SWW9	283.30	285.55	16.42	16.42	16.42	18.09	15.76	18.12	Yes	269.13
SWW10	279.30	280.43	10.18	10.18	10.18	14.03	10.73	15.04	No	270.25
SWW11	271.00	273.50	8.14	8.14	8.14	8.72	8.95	10.77	No	265.36
SWW12	270.20	272.82	8.45	8.45	8.45	11.88	8.88	12.62	No	264.37
LCW-1	271.40	272.21	7.23	7.23	7.23	7.19	8.38	10.71	No	264.98
LCW-2	272.60	274.44	9.46	9.46	9.46	9.98	10.61	12.96	No	264.98
LCW-3	283.30	284.36	17.94	17.94	17.94	18.72	18.09	19.34	No	266.42
LCW-4	283.80	285.70	17.76	17.76	17.76	17.43	18.00	19.95	No	267.94
OS-1	269.63	272.10				12.78				
OI-1	269.14	272.00				12.48				
OS-3	274.63	277.89				15.96				
OD-3	274.96	277.85				15.81				
LD-3	275.80	278.62				7.98				
LD-4	276.30	279.25				13.50				
LD-5	270.02	272.94				12.19				
LS-6	271.40	274.14				11.78				
LD-6	270.09	274.03				10.68				
LD-8	269.90	272.83				10.97				
LR-2	287.50	289.85				14.53				
LR-3	275.50	278.06				10.33				
LR-6	270.90	274.39				11.79				
LR-8	270.00	273.42				11.62				
M-21	270.28	272.32				11.26				
M-22	270.40	273.88				11.71				
M-23	267.98	270.49				13.54				

O'Brien Gere Operation
P. ite
Oswego, New York
Pre-Pumping Monitoring Well Levels

May 5, 2008
8:00 AM

Well	Ground	Riser							Within Range?	Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	9.16	9.16	9.16	10.03	9.14	11.12	Yes	280.17
SWW2	286.30	289.37	15.13	15.13	15.13	16.15	15.03	16.50	Yes	274.24
SWW3	286.00	286.50	16.60	16.60	16.60	17.32	15.92	17.91	Yes	269.90
SWW4	282.90	283.60	14.52	14.52	14.52	15.54	15.67	17.47	No	269.08
SWW5	275.90	277.02	12.06	12.06	12.06	12.59	13.06	14.56	No	264.96
SWW6	270.90	273.06	8.48	8.48	8.48	9.20	7.71	10.28	Yes	264.58
SWW7	273.30	277.93	7.45	7.45	7.45	8.26	7.31	8.96	Yes	270.48
SWW8	275.70	278.24	3.88	3.88	3.88	6.63	3.53	6.68	Yes	274.36
SWW9	283.30	285.55	16.35	16.35	16.35	17.94	15.76	18.12	Yes	269.20
SWW10	279.30	280.43	10.97	10.97	10.97	13.77	10.73	15.04	Yes	269.46
SWW11	271.00	273.50	7.95	7.95	7.95	8.65	8.95	10.77	No	265.55
SWW12	270.20	272.82	8.48	8.48	8.48	11.60	8.88	12.62	No	264.34
LCW-1	271.40	272.21	7.04	7.04	7.04	7.18	8.38	10.71	No	265.17
LCW-2	272.60	274.44	9.27	9.27	9.27	9.92	10.61	12.96	No	265.17
LCW-3	283.30	284.36	18.05	18.05	18.05	18.67	18.09	19.34	No	266.31
LCW-4	283.80	285.70	17.36	17.36	17.36	17.42	18.00	19.95	No	268.34
OS-1	269.63	272.10	7.88	7.88	7.88	11.14			No	264.22
OI-1	269.14	272.00	11.05	11.05	11.05	12.00			No	260.95
OS-3	274.63	277.89	13.95	13.95	13.95	15.29			No	263.94
OD-3	274.96	277.85	13.78	13.78	13.78	15.13			No	264.07
LD-3	275.80	278.62	4.28	4.28	4.28	6.74			No	274.34
LD-4	276.30	279.25	10.50	10.50	10.50	12.50			No	268.75
LD-5	270.02	272.94	8.73	8.73	8.73	11.04			No	264.21
LS-6	271.40	274.14	9.55	9.55	9.55	11.04			No	264.59
LD-6	270.09	274.03	9.72	9.72	9.72	10.36			No	264.31
LD-8	269.90	272.83	7.04	7.04	7.04	9.66			No	265.79
LR-2	287.50	289.85	13.20	13.20	13.20	14.20			No	276.65
LR-3	275.50	278.06	7.90	7.90	7.90	9.72			No	270.16
LR-6	270.90	274.39	10.06	10.06	10.06	11.36			No	264.33
LR-8	270.00	273.42	9.84	9.84	9.84	11.18			No	263.58
M-21	270.28	272.32	9.52	9.52	9.52	10.83			No	262.80
M-22	270.40	273.88	10.02	10.02	10.02	11.29			No	263.86
M-23	267.98	270.49	12.34	12.34	12.34	13.24			No	258.15

O'Brien Gere Operation
P. ite
Oswego, New York
Pre-Pumping Monitoring Well Levels

June 2, 2008
9:00 AM

Well	Ground	Riser							Within Range?	Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	10.05	10.05	10.05	10.03	9.14	11.12	Yes	279.28
SWW2	286.30	289.37	15.36	15.36	15.36	16.09	15.03	16.50	Yes	274.01
SWW3	286.00	286.50	16.81	16.81	16.81	17.28	15.92	17.91	Yes	269.69
SWW4	282.90	283.60	16.10	16.10	16.10	15.59	15.67	17.47	Yes	267.50
SWW5	275.90	277.02	12.04	12.04	12.04	12.55	13.06	14.56	No	264.98
SWW6	270.90	273.06	9.20	9.20	9.20	9.20	7.71	10.28	Yes	263.86
SWW7	273.30	277.93	7.62	7.62	7.62	8.21	7.31	8.96	Yes	270.31
SWW8	275.70	278.24	4.55	4.55	4.55	6.47	3.53	6.68	Yes	273.69
SWW9	283.30	285.55	16.72	16.72	16.72	17.85	15.76	18.12	Yes	268.83
SWW10	279.30	280.43	13.20	13.20	13.20	13.73	10.73	15.04	Yes	267.23
SWW11	271.00	273.50	7.92	7.92	7.92	8.60	8.95	10.77	No	265.58
SWW12	270.20	272.82	9.75	9.75	9.75	11.46	8.88	12.62	Yes	263.07
LCW-1	271.40	272.21	6.90	6.90	6.90	7.15	8.38	10.71	No	265.31
LCW-2	272.60	274.44	9.15	9.15	9.15	9.86	10.61	12.96	No	265.29
LCW-3	283.30	284.36	18.16	18.16	18.16	18.63	18.09	19.34	Yes	266.20
LCW-4	283.80	285.70	17.20	17.20	17.20	17.40	18.00	19.95	No	268.50
OS-1	269.63	272.10				11.14				
OI-1	269.14	272.00				12.00				
OS-3	274.63	277.89				15.29				
OD-3	274.96	277.85				15.13				
LD-3	275.80	278.62				6.74				
LD-4	276.30	279.25				12.50				
LD-5	270.02	272.94				11.04				
LS-6	271.40	274.14				11.04				
LD-6	270.09	274.03				10.36				
LD-8	269.90	272.83				9.66				
LR-2	287.50	289.85				14.20				
LR-3	275.50	278.06				9.72				
LR-6	270.90	274.39				11.36				
LR-8	270.00	273.42				11.18				
M-21	270.28	272.32				10.83				
M-22	270.40	273.88				11.29				
M-23	267.98	270.49				13.24				

O'Brien Gere Operation
P ite
Oswego, New York
Pre-Pumping Monitoring Well Levels

July 7, 2008
9:30 AM

Well	Ground	Riser							Within Range?	Ground-Water
Number	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation
SWW1	286.20	289.33	10.50	10.50	10.50	10.07	9.14	11.12	Yes	278.83
SWW2	286.30	289.37	15.76	15.76	15.76	16.07	15.03	16.50	Yes	273.61
SWW3	286.00	286.50	17.08	17.08	17.08	17.26	15.92	17.91	Yes	269.42
SWW4	282.90	283.60	16.48	16.48	16.48	15.65	15.67	17.47	Yes	267.12
SWW5	275.90	277.02	12.24	12.24	12.24	12.52	13.06	14.56	No	264.78
SWW6	270.90	273.06	9.25	9.25	9.25	9.20	7.71	10.28	Yes	263.81
SWW7	273.30	277.93	7.94	7.94	7.94	8.19	7.31	8.96	Yes	269.99
SWW8	275.70	278.24	5.68	5.68	5.68	6.41	3.53	6.68	Yes	272.56
SWW9	283.30	285.55	17.31	17.31	17.31	17.81	15.76	18.12	Yes	268.24
SWW10	279.30	280.43	14.58	14.58	14.58	13.79	10.73	15.04	Yes	265.85
SWW11	271.00	273.50	8.18	8.18	8.18	8.57	8.95	10.77	No	265.32
SWW12	270.20	272.82	11.32	11.32	11.32	11.45	8.88	12.62	Yes	261.50
LCW-1	271.40	272.21	7.22	7.22	7.22	7.16	8.38	10.71	No	264.99
LCW-2	272.60	274.44	9.44	9.44	9.44	9.83	10.61	12.96	No	265.00
LCW-3	283.30	284.36	18.22	18.22	18.22	18.60	18.09	19.34	Yes	266.14
LCW-4	283.80	285.70	17.36	17.36	17.36	17.40	18.00	19.95	No	268.34
OS-1	269.63	272.10				11.14				
OI-1	269.14	272.00				12.00				
OS-3	274.63	277.89				15.29				
OD-3	274.96	277.85				15.13				
LD-3	275.80	278.62				6.74				
LD-4	276.30	279.25				12.50				
LD-5	270.02	272.94				11.04				
LS-6	271.40	274.14				11.04				
LD-6	270.09	274.03				10.36				
LD-8	269.90	272.83				9.66				
LR-2	287.50	289.85				14.20				
LR-3	275.50	278.06				9.72				
LR-6	270.90	274.39				11.36				
LR-8	270.00	273.42				11.18				
M-21	270.28	272.32				10.83				
M-22	270.40	273.88				11.29				
M-23	267.98	270.49				13.24				

TABLE 7 (a-b)

LCW VOC Concentrations

PAS-OSWEGO-COMPARISON OF LCW2 LEACHATE ANALYTICAL DATA: NOVEMBER 1996 - MAY 2007

COMPOUND (PPB)	LCW-2 11/96	LCW-2 1/97	LCW-2 4/97	LCW-2 7/97	LCW-2 10/97	LCW-2 1/98	LCW-2 5/98	LCW-2 8/98	LCW-2 11/98	LCW-2 5/99	LCW-2 11/99	LCW-2 5/00	LCW-2 11/00	LCW-2 5/01	LCW-2 11/01	LCW-2 5/02	LCW-2* 11/02	LCW-2 5/03	LCW-2 11/03	LCW-2 5/04	LCW-2 11/04	LCW-2 5/05	LCW-2 11/05	LCW-2 5/06	LCW-2 11/06	LCW-2 5/07	LCW-2 11/07	LCW-2 5/08
1,1 DICHLOROETHANE									56	17	56	18	41	48	53	32	61	23	39	27	49	32	95.7	83.5	59.6	36.5	55.9	62
BENZENE	370	2.5	10	120	480	2.5	170	330	170	160	120	220	230	250	330	140	160	55	200	230	100	220	13.6	265	13.5	12.4	144	414
TOLUENE	530	2.5	2.5	62	770	2.5	74	83	33	6	<5	<10	17	220	28	1.7J	1.9J	.23J	41	110	1.4J	3J	0	9.3	0	0	10	3.60J
CHLOROBENZENE	96	2.5	2.5	20	88	2.5	50	53	24	40	33	34	52	120	78	41	38	17	72	120	30	53	4.2	50.9	8.9	6.4	45.8	73.4
ETHYLBENZENE	270	2.5	2.5	45	300	2.5	110	140	66	100	55	84	140	430	230	98	68	14	190	430	25	110	2.4	147	1.1	3.2	116	158
XYLENES (TOTAL)	460	2.5	5.7	51	710	2.5	220	190	134	58	19	72	220	810	280	68	15	.56J	200	760	5.4	70	0	81.8	0	1.6	33.3	65.8
TOTAL VOC'S	1726	12.5	23.2	298	2348	12.5	624	796	483	381	283	428	700	1878	999	379	342	109	742	1677	209.4	485	115.9	637.5	84.1	60.1	405	773.2

*LCW2 & LCW4 samples apparently mislabled in field, data tables corrected based on discussions with OBG.

F:\PROJECTS\3131\LCWDAT.W92 TAB: LCW2

11/02 5/03 11/03 5/04 11/04 5/05 11/05 5/06 11/06 5/07 11/07

PAS-OSWEGO-COMPARISON OF LCW4 LEACHATE ANALYTICAL DATA: NOVEMBER 1996 - MAY 2007

COMPOUND (PPB)	LCW-4 11/96	LCW-4 4/97	LCW-4 10/97	LCW-4 1/98	LCW-4 5/98	LCW-4 8/98	LCW-4 11/98	LCW-4 5/99	LCW-4 11/99	LCW-4 5/00	LCW-4 11/00	LCW-4 5/01	LCW-4 11/01	LCW-4 5/02	LCW-4* 11/02	LCW-4 5/03	LCW-4 11/03	LCW-4 5/04	LCW-4 11/04	LCW-4 5/05	LCW-4 11/05	LCW-4 5/06	LCW-4 11/06	LCW-4 5/07	LCW-4 11/07	LCW-4 5/08
1,1 DICHLOROETHANE							120	190	99	110	45	76	48	79	81	62	60	36	72	69	59.5	0	55.5	17	3.6	0
BENZENE	560	410	510	420	430	480	350	510	460	440	300	410	300	510	410	360	350	290	470	540	379	843	513	328	350	676
TOLUENE	1200	490	990	450	510	760	550	820	550	460	350	560	400	680	570	520	410	210	500	640	458	43.5	407	243	8.2	40
CHLOROBENZENE	310	250	250	130	140	220	180	240	180	220	200	230	230	330	370	360	320	170	260	350	388	330	382	412	251	343
ETHYLBENZENE	1700	580	1200	610	670	870	770	1000	820	810	800	940	870	1200	1100	1100	860	640	810	1300	1190	260	1190	780	134	171
XYLENES (TOTAL)	3600	1300	2700	1400	1500	1900	1770	2130	1770	1730	1800	1900	1700	2300	2100	2300	1700	1200	1600	2800	2380	2290	2530	1690	304	1900
TOTAL VOC'S	**7370**	**3030**	**5650**	**3010**	**3250**	**4230**	**3740**	**4890**	**3879**	**3770**	**3495**	**4116**	**3548**	**5099**	**4631**	**4702**	**3700**	**2546**	**3712**	**5699**	**4855**	**3767**	**5078**	**3470**	**1050.8**	**3132**

*LCW2 & LCW4 samples apparently mislabled in field, data tables corrected based on discussions with OBG.

F:\PROJECTS\3131\LCWDAT.WB2 TAB. LCW4

11/02 5/03 11/03 5/04 11/04 5/05 11/05 5/06 11/06 5/07 11/07

TABLE 8

Historical Concentrations of VOCs at LR-6

TABLE 8

VOC Concentrations at LR 6
(ug/L)

DATE	BENZENE	CHLOROBENZENE	1.1-DICHLOROETHANE	XYLENES	TOLUENE	ETHYLBENZENE
Nov-89	2J	ND	48	1J	2J	1J
May-90	ND	ND	67	ND	2J	ND
Nov-90	1J	ND	49	3J	2J	1J
May-91	ND	ND	34	ND	ND	.3J
Nov-91	ND	ND	33	ND	ND	ND
May-92	ND	ND	14	ND	ND	ND
Nov-92	ND	ND	12	ND	ND	ND
May-93	ND	ND	8	ND	ND	ND
Nov-93	ND	ND	10	ND	ND	ND
May-94	ND	ND	8	ND	ND	ND
Aug-94	ND	ND	7J	ND	ND	ND
Nov-94	ND	ND	13	ND	ND	ND
May-95	ND	ND	7	ND	ND	ND
Nov-95	ND	ND	8	ND	ND	ND
May-96	ND	ND	ND	ND	ND	ND
Nov-96	ND	ND	8	ND	ND	ND
May-97	ND	ND	5	ND	ND	ND
May-98	ND	ND	4.2J	ND	ND	ND
Nov-98	ND	ND	6	ND	ND	ND
May-99	ND	ND	3	ND	ND	ND
Nov-99	ND	ND	9	ND	ND	ND
May-00	ND	ND	2	ND	ND	ND
Nov-00	ND	ND	4.2	ND	ND	ND
May-01	ND	ND	ND	ND	ND	ND
Nov-01	ND	ND	4.1	ND	ND	ND
May-02	ND	ND	1.6	ND	ND	ND
Nov-02	ND	ND	.16J	ND	ND	ND
May-03	ND	ND	1.6	ND	ND	ND
Nov-03	ND	ND	2.1	.12J	ND	ND
May-04	ND	ND	2.1	ND	ND	ND
Nov-04	ND	ND	2.9	ND	ND	ND
May-05	ND	ND	2.2	ND	ND	ND
Nov-05	ND	ND	2.66	ND	ND	ND
May-06	ND	ND	3.28	ND	ND	ND
Nov-06	ND	ND	2.83	ND	ND	ND
May-07	ND	ND	1.88	ND	ND	ND
Nov-07	ND	ND	0.73	ND	ND	ND
May-08	ND	ND	2.26	ND	ND	ND

TABLE 9

Historical Concentrations of VOCs at LR-8

Table 9

VOC Concentrations at LR 8
(ug/L)

DATE	BENZENE	CHLOROBENZENE	1.1-DICHLOROETHANE	XYLENES	TOLUENE	ETHYLBENZENE
Nov-89	100	23	ND	380	12	150
May-90	32	7	ND	200	11	69
Nov-90	55	13	ND	310	13	93
May-91	67	16	ND	370	9	110
Nov-91	84	18	ND	190	3	55
May-92	82	22	ND	270	1	24
Nov-92	82	23	ND	370	2	26
May-93	84	22	ND	390	7	87
Nov-93	45	10	ND	120	0.6	2
May-94	36	20	ND	54	1	1
Nov-94	48	10	ND	97	ND	3
May-95	42	9	ND	29	ND	ND
Nov-95	29	9	ND	1	ND	ND
May-96	20	5	ND	ND	ND	ND
Nov-96	22	5	ND	2	0.5	ND
May-97	33	6	ND	3	ND	ND
May-98	30	6.4	ND	1.4	0.51	ND
Nov-98	23	6	ND	ND	ND	ND
May-99	29	7	ND	1	ND	ND
Nov-99	34	8	ND	ND	ND	ND
May-00	22	7	ND	ND	ND	ND
Nov-00	33	8.2	ND	1.1	ND	ND
May-01	21	7.3	1.9	0.96	0.35	ND
Nov-01	21	6.3	0.15	1.2	0.41	ND
May-02	8.8	6.5	0.1	0.18	0.25	ND
Nov-02	14	4.9	ND	1.2	0.35	ND
May-03	16	7.5	ND	0.4	0.44	ND
Nov-04	21	9.7	.10J	1.4	.47J	ND
May-04	0.33	ND	ND	ND	ND	ND
Nov-04	0.3	0.5	0.5	0.5	0.5	0.5
May-05	10	12	ND	ND	ND	ND
Nov-05	ND	ND	ND	ND	ND	ND
May-06	9	7.87	.10J	.35J	.32J	ND
Nov-07	0.31	ND	ND	ND	ND	ND
May-07	2.21	5.35	ND	0.16	0.23	ND
Nov-07	14.2	14.6	0.14	1.31	0.49	0.12
May-08	4.39	12.5	0.16	ND	0.35	ND

TABLE 10

Historical Concentrations of VOCs at M-21

Table 10

VOC Concentrations at M-21

(ug/L)

DATE	BENZENE	CHLOROBENZENE	1.1-DICHLOROETHANE	XYLENES	TOLUENE	ETHYLBENZENE
Oct-91	39	12	ND	250	5	59
Oct-91	36	12	ND	240	3	57
Nov-91	100	34	ND	670	10	180
Sep-94	7	31	ND	30	ND	ND
May-96	5	2	ND	ND	ND	ND
Nov-96	7	2	ND	0.6	ND	ND
May-97	9	4	ND	1	ND	ND
May-98	8.1	3.4	ND	0.6	ND	ND
Nov-98	10	0.3	ND	ND	ND	ND
May-99	27	9	ND	1	ND	ND
Nov-99	19	6	ND	ND	ND	ND
May-00	21	8	ND	ND	ND	ND
Nov-00	26	9.8	ND	ND	ND	ND
May-01	14	4.2	ND	0.47	0.36	ND
Nov-01	18	6.1	1.3	0.91	0.48	ND
May-02	18	6.5	0.19	0.3	0.43	ND
Nov-02	0.13	4.3	0.32	0.33	0.34	ND
May-03	9.9	3.1	ND	0.17	0.25	ND
Nov-04	4.2	1.8	ND	.15J	.14J	ND
May-04	5.5	2.1	ND	ND	.27J	ND
Nov-05	4	1.2	0.5	0.5	0.5	0.5
May-05	4.7	2.2	ND	ND	ND	ND
Nov-05	2.87	1	ND	ND	ND	ND
May-06	0.31	0.53	ND	ND	ND	ND
Nov-06	2.08	1.47	ND	ND	ND	ND
May-07	3.19	7.83	ND	0.31	0.44	ND
Nov-07	0.63	4.43	ND	0.35	0.26	ND
May-08	0.68	7.13	ND	ND	0.34	ND

TABLE 11

Additional Bedrock Groundwater Monitoring Results

TABLE 11
PAS OSWEGO SUPERFUND SITE

ADDITIONAL BEDROCK GROUNDWATER MONITORING RESULTS

		Additional Bedrock Monitoring Well Results (ug/l)								
	Perf Std	**Addl Mon Well M-22**			**Addl Mon Well M-23**			**Addl Mon Well OD-3**		
LTM CONSTITUENT	(ug/l)	2005	Apr 06	May 06	2005	Apr 06	May 06	2005	Apr 06	May 06
Benzene	0.7	NS	0.12J	ND	NS	ND	ND	NS	ND	ND
Chlorobenzene	5	NS	1J	ND	NS	ND	ND	NS	0.11J	ND
1,1-Dichloroethane	5	NS	ND	0.14J	NS	0.86	0.9	NS	ND	ND
Ethylbenzene	5	NS	ND	ND	NS	ND	ND	NS	ND	0
Toluene	5	NS	ND	ND	NS	ND	ND	NS	ND	0.16J
Xylenes	5	NS	ND	ND	NS	ND	ND	NS	ND	0.11J

NOTES:

1. Additional downgradient bedrock wells M-22, M-23 and OD-3 monitored during April and May 2006 pursuant to January 25, 2006 letter to EPA and EPA approval letter dated February 2, 2006..

TABLE 12

Well Abandonment Status

TABLE 12

Pollution Abatement Services

Oswego, NY

Additional Proposed Well Abandonment List -

July 2007

Wells Approved & Abandoned Jan07 *	Addl Proposed Wells for Abandonment**	Date Installed	Date Abandoned	Screen Interval (ft below land surface)	Elevation of Screen Zone (ft above msl)	Total Well Depth (ft below land surface)	Ground Surface Elevation (ft above msl)	Open Borehole (ft above msl)	Elevation of Open Borehole (ft above msl)	Well Dia (in)	Measuring Pt Elev (feet above msl)
Addl WL elev mon	**OS-1**	10/18/84		6.0-15.0	264.6-254.6	15.0	269.63	-	-	3	272.10
Addl WL elev mon	**OI-1**	10/22/84		21.0-26.0	248.1-243.1	26.0	269.14	-	-	3	272.00
Addl WL elev mon	**OS-3**	10/24/84*		10.0-20.0	264.3-254.3	20.0	274.63	-	-	3	277.89
Addl WL elev mon	**OD-3**	11/01/84*		-	-	42.0	274.96	27.0-42.0	-	4	277.85
OD-4	**OD-4**	10/30/84	01/15/07	-	-	32.0	271.02	17.0-32.0	-	4	274.85
LS2	**LS2**	11/09/88	01/15/07	7.8-17.8	279.7-269.7	18.0	287.50	-	-	2	289.81
LD2	**LD2**	11/10/88	01/15/07	25.8-35.8	261.3-251.3	36.0	287.10	-	-	2	289.73
	LR2	11/17/88		45.8-55.8	241.7-231.7	56.0	287.50	-	-	2	289.85
LD3	**LD3**	11/15/88		17.0-27.0	258.8-248.8	27.3	275.80	-	-	2	278.62
	LR3	11/22/88		53.7-63.7	221.8-211.8	63.8	275.50	-	-	2	278.06
Addl WL elev mon	**LD4**	11/04/88		19.8-29.8	256.5-246.5	30.0	276.30	-	-	2	279.25
Addl WL elev mon	**LD5**	10/27/88		16.6-26.6	253.6-243.6	27.0	270.20	-	-	2	272.94
Addl WL elev mon	**LS6**	10/28/88		7.8-17.8	263.6-253.6	18.0	271.40	-	-	2	274.14
Addl WL elev mon	**LD6**	11/03/88		19.8-29.8	251.1-241.1	30.0	270.90	-	-	2	274.03
	LR6	11/01/88		47.0-57.0	223.9-229.9	57.2	270.90	-	-	2	274.39
Addl WL elev mon	**LD8**	11/10/88		11.7-21.7	258.2-248.2	21.8	269.90	-	-	2	272.83
	LR8	11/11/88		29.5-39.5	240.5-230.5	39.7	270.00	-	-	2	273.42
LS9	**LS9**	11/08/88	01/15/07	7.9-12.9	266.1-261.1	13.0	274.00	-	-	2	276.62
	LCW1	NA		5.3-15.3	265.9-255.9	15.3	271.40	-	-	14	272.21
	LCW2	NA		9.6-19.6	263.8-253.8	19.6	272.60	-	-	14	274.44
	LCW3	NA		NA	NA	NA	283.30	-	-	14	284.36
	LCW4	NA		NA	NA	NA	283.80	-	-	14	285.70
	SWW1	06/25/86		6.0-16.0	280.2-270.2	16.5	286.20	-	-	3	289.33
	SWW2	06/26/86		5.5-15.5	280.8-270.8	15.5	286.30	-	-	3	289.37
	SWW3	06/27/86		7.0-17.0	279.0-269.0	17.0	286.00	-	-	3	286.50
	SWW4	06/30/86		14.0-24.0	268.9-258.9	24.0	282.90	-	-	3	283.60
	SWW5	06/30/86		6.5-16.5	269.4-259.4	16.5	275.90	-	-	3	277.02
	SWW6	07/01/86		6.0-16.0	264.9-254.9	17.0	270.90	-	-	3	273.06
	SWW7	10/26/88		9.0-19.0	266.3-253.9	19.5	275.30	-	-	2	277.93
	SWW8	11/14/88		9.3-19.3	266.4-256.4	19.5	275.70	-	-	2	278.24
	SWW9	10/31/88		17.0-27.0	266.3-256.0	27.5	283.30	-	-	2	285.55
	SWW10	11/03/88		12.8-22.6	266.5-256.7	23.0	279.30	-	-	2	280.43
	SWW11	11/01/88		9.9-20.0	261.1-251.0	20.5	271.00	-	-	2	273.50
	SWW12	10/26/88		8.7-18.7	261.5-251.5	18.9	270.20	-	-	2	272.82
	M-21	09/17/91		-	-	39.0	270.28	18.0-39.0	252.3-231.3	6	272.32
Addl WL elev mon.	M-22	09/13/91		-	-	49.7	270.40	40.0-49.7	230.4-220.7	6	273.88
Addl WL elev mon.	**M-23**	09/16/91		-	-	39.5	267.98	27.7-39.5	240.3-228.5	6	270.49
M-24	**M-24**	1994	01/16/07	12.3-38.5	264.2-238.0	38.5	276.50	-	-	5	-
M-25	**M-25**	1994	01/16/07	15.5-33.9	249.1-230.7	33.9	264.60	-	-	5	-
M-26	**M-26**	1994	01/16/07	6.5-43.1	265.4-228.8	43.1	271.90	-	-	5	-
PZ-1	**PZ-1**	1994	01/16/07	18.3-32.3	251.3-237.3	32.3	269.60	-	-	4	-
PZ-2	**PZ-2**	1994	01/16/07	20.0-37.0	251.0-234.0	37.0	271.00	-	-	4	-

Additional monitoring wells proposed for abandonment include those wells highlighted in yellow.

* PAS Oswego wells approved for abandonment by EPA on Nov 8, 2006 conference call are highlighted in orange. Quarterly water level monitoring to be performed at wells retained for followup review with EPA following submittal of the July 2007 Annual Progress Report.

** PAS wells originally proposed for abandonment in July 2006 PAS Oswego Annual Progress Report highlighted in yellow and re-proposed for abandonment.

Prepared by de maximis, inc
11/13/2008

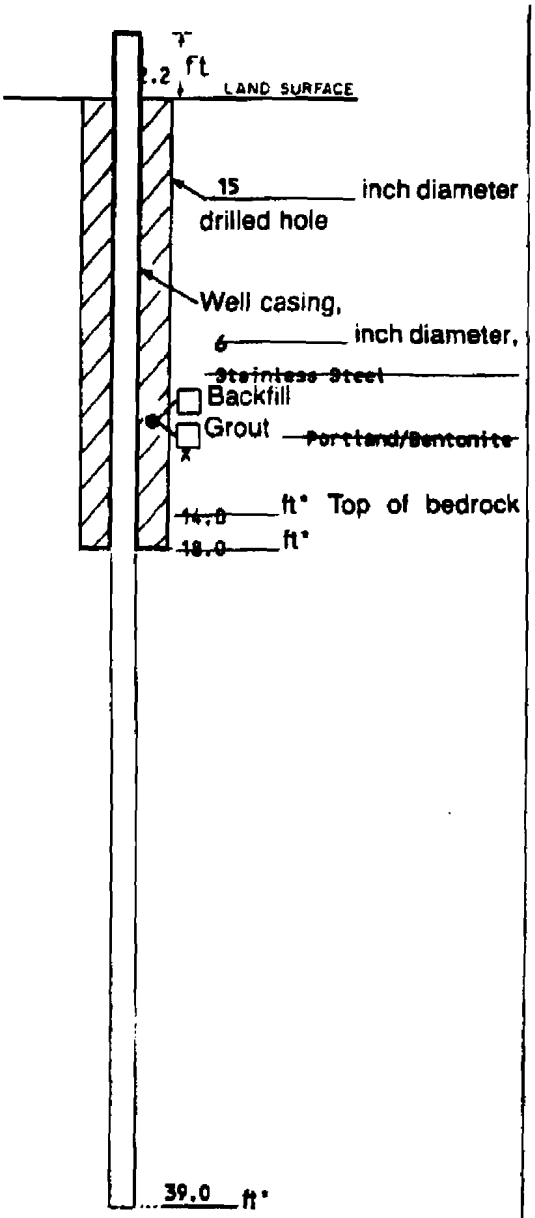
APPENDIX A

WELL CONSTRUCTION LOGS

GERAGHTY & MILLER, INC.
Environmental Services

WELL CONSTRUCTION LOG

(BEDROCK)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project PAS - NY50402 Well M-21

Town/City Oswego

County Oswego State New York

Permit No. _____

Land-Surface Elevation

and Datum 270.28 feet ☒ Surveyed

mean sea- level ☐ Estimated

Installation Date(s) 9/9/91 - 9/17/91

Drilling Method 4 1/4", 8 1/4", HX, R

Drilling Contractor Parratt Wolff, Inc.

Drilling Fluid Water

Development Technique(s) and Date(s)

Submersible Pump for 2.0 hours on 9/17/91

Centrifugal Pump (Rig) for 1.0 hours on 9/18/91

Fluid Loss During Drilling 30 - 40 gallons

Water Removed During Development Approximately 1,400 gallons

Static Depth to Water 11.21 feet below M.P.

Pumping Depth to Water 36 feet below M.P.

Pumping Duration 3.0 hours

Yield 10.0 - 11.5 gpm Date 9/17, 9/18/91

Specific Capacity _____ gpm/ft

Well Purpose Bedrock Ground Water Monitoring

Fracture Zones Horizontal/Angular: 18.6, 19.8, 20.0-22.0, 22.3, 24.6, 25.8, 33.0-34.0, 34.8, 38.1

Remarks

Vertical Fracture Zones: 15.2-16.8, 32.3-34.3, 38.1-38.8

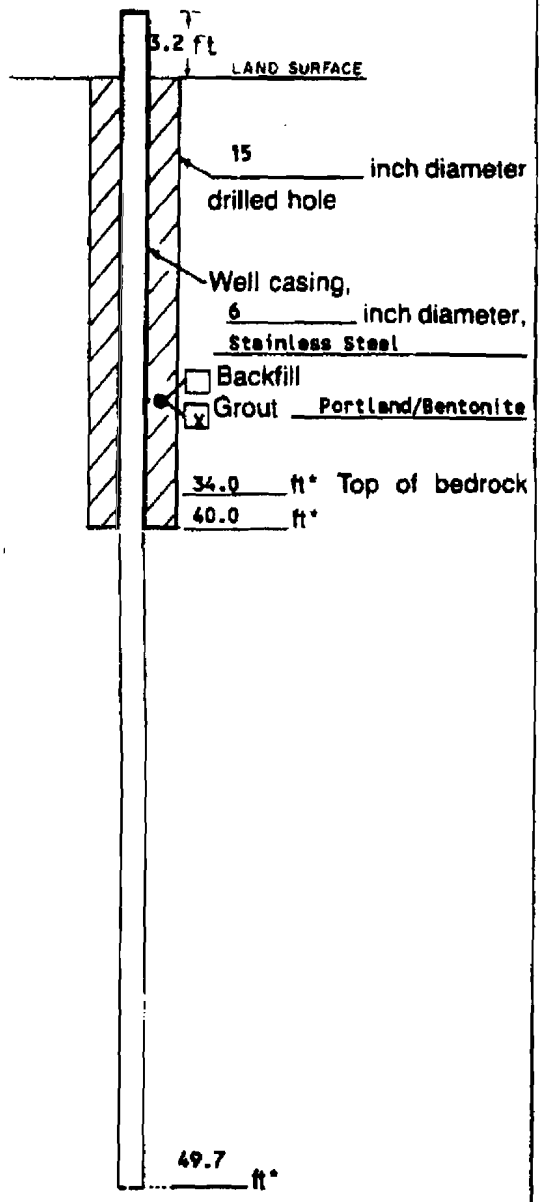
Strong odor to water

Prepared by S. Beames

GERAGHTY & MILLER, INC.
Environmental Services

WELL CONSTRUCTION LOG

(BEDROCK)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project PAS - NY50402 Well M-22

Town/City Oswego

County Oswego State New York

Permit No. _____

Land-Surface Elevation

and Datum 270.40 feet ☒ Surveyed

mean sea-level ☐ Estimated

Installation Date(s) 9/4/91 - 9/13/91

Drilling Method 4 1/4", 8 1/4", NX, P

Drilling Contractor Parratt Wolff, Inc.

Drilling Fluid Water

Development Technique(s) and Date(s)

Submersible Pump on 9/13/91, 9/18/91

Fluid Loss During Drilling 50 - 60 gallons

Water Removed During Development 158 gallons

Static Depth to Water 11.86 feet below M.P.

Pumping Depth to Water 48.5 feet below M.P.

Pumping Duration 0.33 hours

Yield 1 - 2 gpm Date 9/18/91

Specific Capacity _____ gpm/ft

Well Purpose Bedrock Ground Water Monitoring

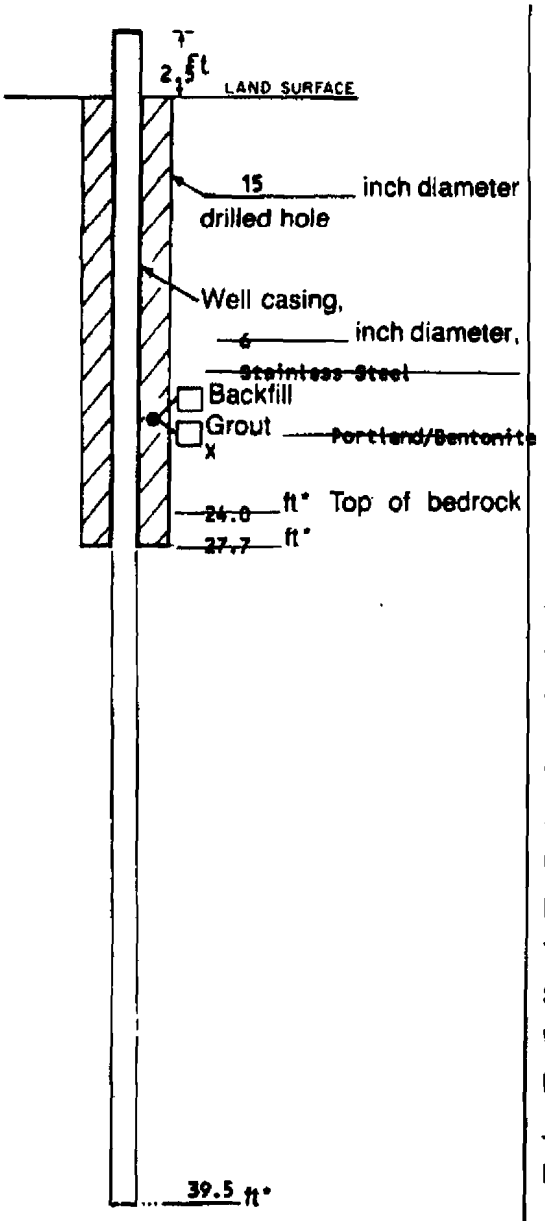
Fracture Zones Horizontal: 34.4, 34.6, 35.9, 37.1, 38.2, 40.0, 40.5, 41.5 Vertical: 49.7-50.0

Remarks

Prepared by S. Beames

GERAGHTY & MILLER, INC.
Environmental Services

WELL CONSTRUCTION LOG
(BEDROCK)



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project PAS - NY50402 Well M-23

Town/City Oswego

County Oswego State New York

Permit No.

Land-Surface Elevation

and Datum 267.98 feet ☒ Surveyed

mean sea-level ☐ Estimated

Installation Date(s) 9/11/91 - 9/16/91

Drilling Method 6 1/4", 8 1/4", NX, P

Drilling Contractor Barnett Wolff, Inc.

Drilling Fluid Water

Development Technique(s) and Date(s)

Submersible Pump on 9/18/91

Fluid Loss During Drilling 50 - 60 gallons

Water Removed During Development Approximately 390 gallons

Static Depth to Water 12.79 feet below M.P.

Pumping Depth to Water 38 - 38.5' feet below M.P.

Pumping Duration 1.18 hours

Yield Approx. 3 - 4 gpm Date 9/18/91

Specific Capacity gpm/ft

Well Purpose Bedrock Ground Water Monitoring

Fracture Zones Horizontal: 27.5, 29.7, 35.7

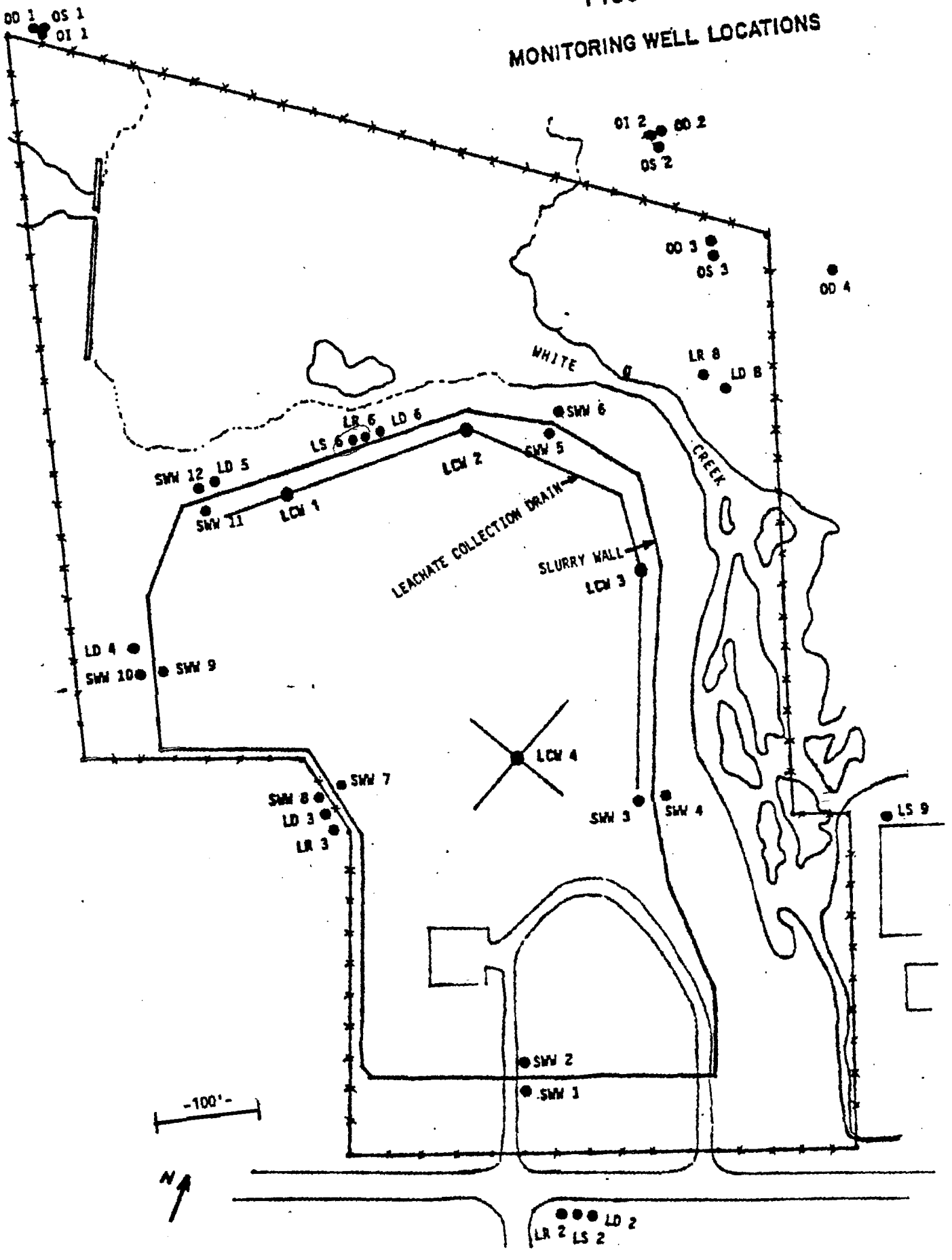
No vertical fractures present.

Remarks

Prepared by S. Beames

FIGURE NO. 2

MONITORING WELL LOCATIONS



TEST BORING LOG

BORING NO. LS-9

PROJECT Pollution Abatement Services Site Oswego, NY

SHEET 1 OF 1

DRILLING CONTRACTOR Atlantic Testing. Canton, NY

PURPOSE Long-term monitoring program

ELEVATION 274.0 (g.s.)

DATUM

GROUNDWATER					CASING	SAMPLE	CORE
DATE	TIME	DEPTH	CASING	TYPE	HSA	S.S.	
				DIAMETER	4¼"	2"	
				WEIGHT		140#	
				FALL		30"	

DATE STARTED 11/7/88

DATE FINISHED 11/8/88

DRILLER M. Hawkins

INSPECTOR R. Edwards

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
		4-5			Br fine SAND and fine-med Gravel, some Silt, trace Clay loose plant roots and little organics dry-moist	8" recovery
2		6-4				
		3-3			Yellow Tan fine-med SAND and Silt, some fine-med Gravel, trace Clay moist-dry	7" recovery
4		3-3				
		4-2			Br fine-med SAND and Silt, with fine Gravel, Clay moist-wet poor recovery	3" recovery rock frags in tip of spoon
6		3-4				
		2-1			6" Br Clay and Silt, with fine-med Sand and fine Gravel (orgs & plant roots) WET 3" rock frags, thin-bedded broken orange & green stain - moist	9" recovery spoon bouncing
8		46/4"				
		100/5"			Grey SILT & Clay, some fine Sand and fine Gravel Rock frags as above WET Gravel is sub-angular	5" recovery very wet very rocky
10		---				
		37-17			Grey coarse-med-fine GRAVEL and Clayey Silt, little fine Sand. Rock frags in most of spoon & tip WET Gn & BlGy mottling of Clay	10" recovery Auger refusal at 11.5' 11/7.
12		100/2"				
		39-31			Grey coarse-med-fine SAND with fine-med-coarse Gravel, little Silt, trace Clay Many rock frags Wet-moist Auger refusal @ 13.5'	14" recovery spoon will not advance 11/8.
14		47--				
					BEDROCK ?	
15						
					NOTE: 0-12' sampled in one hole, abandoned with refusal. Augered 2nd hole to 12', sampled to 15' and installed well.	

TEST BORING LOG

BORING NO. LR-6

PROJECT Pollution Abatement Services Site Oswego, NY

SHEET 1 **OF** 2

DRILLING CONTRACTOR Atlantic Testing Canton, NY

PURPOSE Long-term monitoring program

ELEVATION 270.9 (g.s.)

DATUM

GROUNDWATER					CASING	SAMPLE	XXXXXX
DATE	TIME	DEPTH	CASING	TYPE	HSA	s's.	tricone
				DIAMETER	4¼"	2"	5½"
				WEIGHT		140#	
				FALL		30"	

DATE STARTED 10/31/88

DATE FINISHED 11/1/88

DRILLER M. Hawkins

INSPECTOR R. Edwards

DEPTH FT.		SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
			2-5			4": Topsoil, Dk Br SANd & Silt moist 8": RdBr coarse-med SAND, tr Silt & fine Gravel. 4": RdTan fine-med-coarse SAND, tr fine Gravel	16" recovery HDPE liner @ 14'
2			4-4				
			8-8			2": Rd Tan f-m-c SAND; tr fine Gravel 6": Br f-med SAND & Silt, tr f-m Gravel orange staining, occ blk staining MOIST 8": RdTan fine-med SAND DRY	16" recovery
4			10-13				
			41-26			3": BkBr org f-mSAND & Silt, w/roots 3": Br f-med SAND & Silt, tr Clay & fine gravel, rock frags, red staining 11": Br f-m SAND & Silt, tr Clay, 1 f-m Gravel.	17" recovery gravel sub-rounded oxidized til
			16-11				
6			9-10				
			6-11			No recovery	
8			12-20			6": Lt Br fine SAND & Silt, little Clay and fine-med Gravel WET 14": GyBr fine SAND & Silt, with fine-med Gravel tr Clay Moist-Dry (TILL)	20" recovery contains thin black streaks
			25-30				
10			77-45			5": Br f-m SAND & Silt, tr f-m Gravel 13": TanGy f-m SAND & Silt w/f-m-c Gravel-sub-rounded rust around some gravel. Moist-Dry dense	18" recovery
			36-46				
12			35-33			TanBr f-m SAND & Silt w f-m-c Gravel few coarse sand lenses WET Rust & orange streaks. moist-dry at base DENSE	18" recovery
			43-47				
14			17-20			7": Br f-m SAND & Silt, little f-med Gravel, tr Clay WET-moist 13": BrRed f-m SAND & Silt w f-m-c Gravel rust streaks moist-dry dense	20" recovery
			28-28				
16			28-48			6":BrRed f SAND & Silt, tr f-m Gravel, tr Clay WET-moist 15": Gy-RedGy f SAND & Silt w f-m Gravel dry-moist v. dense 1" Br seam	21" recovery
			59-76				
18			85-68			3" Br f-m Sandy SILT, tr f-m Gravel & Clay moist 13" Gy-RedGy f SySilt 1 f-m Grav, tr Clay v dense DRY	16" recovery
20			115--				

TEST BORING LOG	BORING NO. LR-6
PROJECT Pollution Abatement Services Site Oswego, NY	SHEET 2 OF 2

DEPTH FT.		SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
			78-100/3"			Rock fragments. 2" BrGy fine Sandy SILT with fine Gravel DRY	8" recovery
			---				
22			57-100/3"			Red-Grey fine SAND & Silt, some fine-medium Gravel & rock Frags. DRY	6" recovery rock frags in tip of spoon
			---				
24			75-100/4"			Red Grey fine SAND & Silt, trace fine to medium Gravel DRY	10" recovery
			---				
26			30-100/3"			Red Grey fine-med SAND & Silt, with fine-med-coarse Gravel, rock frags DRY - Moist	8" recovery rock frags in tip of spoon
			---				
28			118--			Red Grey fine Sandy SILT with fine-medium Gravel, rock fragments	5" recovery rock frags in tip
			---				
30			100/on rock (boulder			Rock frags. Wash out hole & roller bit through rock	Spoon did not advance
32			44-100/4"			RdGy fine SAND & Silt w med-fine Gravel, tr Clay WET-MOIST dense 2"till/2"loose med Gvl,wet/5"till	9" recovery most G sub-rdd gvl in seam sub-angular
			---				
34			76-100/5"			Red Grey fine SAND & Silt, some fine to med Gravel Moist-dry v. dense	9" recovery
			---				
36			12-24			2" RdGy fine SAND & Silt with fine Gravel moist dense	13" recovery
			100/5"			11" Gy Clayey SILT, some fine Sand moist-dry v dense Contains v. thin fine Sand lenses	
38			20-19				
			30-97			3" Gy f SAND & Silt w Clay & f Grvl 4" Gy Clayey Silt, some f Sand, f-m Gravel MOIST dense	7" recovery (Red staining around Red SS pebble, wthrd)
40			15-10				
			18-82			RdGy fine SAND & Silt with Clay dense, moist Rock frags in bottom 4" Refusal--bedrock	11" recovery less clay than above
						Auger refusal at 41'8". Advance hole with roller bit 15' into rock Bottom of hole @ 57'2"	

10/31/8

11/1/8

TEST BORING LOG

BORING NO. LR-2

OJECT Pollution Abatement Services Site Oswego, NY

SHEET 1 OF 2

DRILLING CONTRACTOR Atlantic Testing Canton, NY

PURPOSE Long-term monitoring program

ELEVATION 287.5' (g.s.)

GROUNDWATER					CASING	SAMPLE	[illegible]
DATE	TIME	DEPTH	CASING	TYPE	HSA	S.S.	tricone
				DIAMETER	4½"	2"	5⅝"
				WEIGHT		140#	
				FALL		30"	

DATUM

DATE STARTED 11/8/88

DATE FINISHED 11/17/88

DRILLER M. Hawkins

INSPECTOR R. Edwards

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
		8-28			Tan fine-medium SAND, some fine-med Gravel, little Silt, trace Clay Top 10" plant roots moist-dry	19" recovery (fill) last 3" dense
2		25-59				
		73-69			Tan fine-medium SAND, some silty fine Gravel moist-dry dense	16" recovery
4		106--				
		36-87			Tan fine-medium SAND with Silt, fine-med. Gravel dense occ. rusty spots ¼" clay lens 3" fr bot. moist-dry	20" recovery
6		93-100/4"				
		54-100/4"			Tan fine-medium SAND with Silt, fine-med. Gravel (weathered) dense moist-dry	8" recovery rock in tip of spoon. diff. drilli
8						
		40-100/5"			Brown fine-medium SAND with Silt, fine-med-coarse Gravel weathered dense dry	9" recovery rock in tip with grey silt & sand
10						
		60-100/5"			Grey fine-med SAND and Silt, some fine-med Gravel rock frags. dense dry	10" recovery rock in tip of spoon
12						
		50-100/4"			Similar, trace rock frags dense moist-dry	8" recovery rock fragment in tip of spoon
14						
		100/101			Grey fine-med SAND & Silt, some fine-med. Gravel, trace Clay, trace rock fragments dense moist-dry	10" recovery
16						
		100/2"			Rock fragments in auger, no recovery	
		39-63			Grey fine SAND and Silt, little fine-med. Gravel, trace Clay dense moist	15" recovery
20		100/5"				

TEST BORING LOG | BORING NO. LR-2

PROJECT Pollution Abatement Services Site Oswego, NY | SHEET 2 OF 2

DEPTH FT.		SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
			63-100			Dk grey fine SAND and Silt, some fine Gravel, trace Clay, very dense moist	12" recovery rock frags in spoon
22							11/8/88 ~~11/9/88~~
			75/2"			Rock fragment in tip of spoon Roller bit through boulder @ 24.5'	No recovery augers on rock at 22'
24							
			83-81			Dk grey fine SAND and Silt, little fine Gravel, trace Clay very dense moist. m grd wthrd friable red SS	16" recovery
26			100/5"				
			76-100			Dk grey fine SAND & Silt, little fine Gravel, trace Clay and med Gravel very dense moist	8" recovery
28							
			47-84			Dk grey fine-med SAND & Silt, some f-m Gravel, trace Clay V dense moist Bot 6" grades to f-mS a $ w f-mGaC-	21" recovery soupy at bottom wet not as dense
30			64-28				
			15-27			Top 8": Dk grey fine-med SAND and Silt, some fine-med Gravel and Clay dense, wet. Bot 8": red grey med-fine SAND w Silt a Clay, tr fine Gravel	16" recovery wet, dense at bottom
32							
			75-89			Red grey fine-med SAND and Silt, some fine Gravel, trace Clay and med Gravel dense moist	18" recovery rock fragment in tip of spoon
34			100--				
			35-100			Red grey fine-med SAND and Silt, tr Clay & Gravel occ. thin med Sand lenses & C/$ lenses dense moist	12" recovery ~~rock~~ frag at top of spoon wet
36							
			76-72			Red grey fine-med SAND & Silt, some fine-med Gravel, trace Clay occ rock frags, moist dense 3" Grey med-coarse sand layer at bottom loose wet	18" recovery
38			100--				
			29-38			GnGy med-fine SAND and fine-med Gravel, some Silt and Clay moist-wet Clay incrsg with depth. Rock frags of green sandstone	Augered through rock. Sample started at 38.5' 16" recovery
40			50--				
			36-55			Grn Grey fine SAND and Silty Clay and wthrd rock. Bottom 8" grn silt-stone, friable (bedrock?)	11" recovery Most of spoon soupy. Rk frag in tip
42			100/3"				
44						Auger refusal at 41.5'. roller bit to 56.5'	Bedrock

MONITOR WELL CONSTRUCTION REPORT

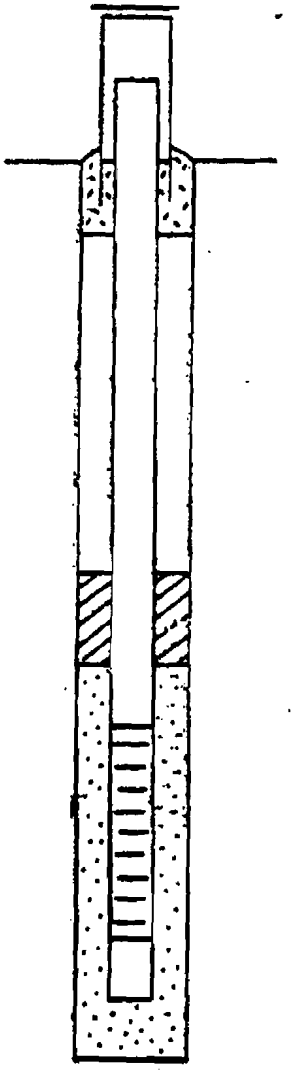
Site PAS Well No. LS-2

Total Depth 19' Surface Elev. 287.5' Top Riser Elev. 289.81'

Water Levels (Depth, Date, Time) _____ Date Installed 11-9-88

Riser:	Dia.	2"	Material	304 s.s.	Length	11'	
Screen:	Dia.	2"	Material	304 s.s.	Length	10'	Slot Size 0.010"
Prot. Csg:	Dia.	6"	Material	steel	Length	7'	

SCHEMATIC



33" Prot. Csg stickup

30" Riser stickup

Ground Surface

3' Bottom Surface Seal

Surface Seal Type concrete

Grout Type cement/bentonite

Seal Type bentonite pellets

5' Top Seal

7' Top Sand Pack

7'10" Top Screen

Sand Pack Type/Size #4 QKOK

17'10" Bottom Screen

18' Bottom Sump/Wellpoint

19' Total Depth of Boring

Comments hole open for entire installation

Driller M Hawkins

Geologist _____

DEC Inspector R. Edwards

MONITOR WELL CONSTRUCTION REPORT

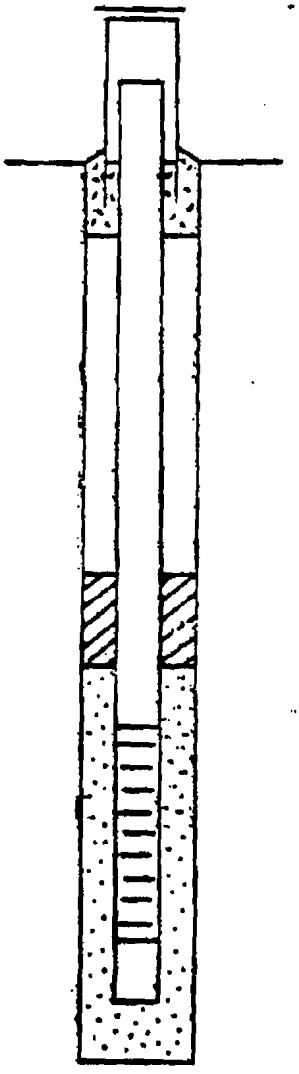
Site PAS Well No. LD-2

Total Depth 38' Surface Elev. 287.1' Top Riser Elev. 289.73'

Water Levels (Depth, Date, Time) _____ Date Installed 11-10-88

Riser: Dia. 2" Material 304 s.s. Length 29'
Screen: Dia. 2" Material 304 s.s. Length 10' Slot Size 0.010"
Prot. Csg: Dia. 6" Material steel Length 7'

SCHEMATIC



36" Prot. Csg stickup
33" Riser stickup
Ground Surface
3' Bottom Surface Seal
Grout Type cement/bentonite
20' Top Seal
25' Top Sand Pack
25'10" Top Screen
35'10" Bottom Screen
36' Bottom Sump/Wellpoint
38' Total Depth of Boring

Surface Seal Type concrete

Seal Type bentonite slurry

Sand Pack Type/Size #4 QROK

Comments hole collapsed: BOH @ time of well installation 36'
took four attempts to install well

Driller M. Hawkins

Geologist _____

DEC Inspector R. Edwards

MONITOR WELL CONSTRUCTION REPORT

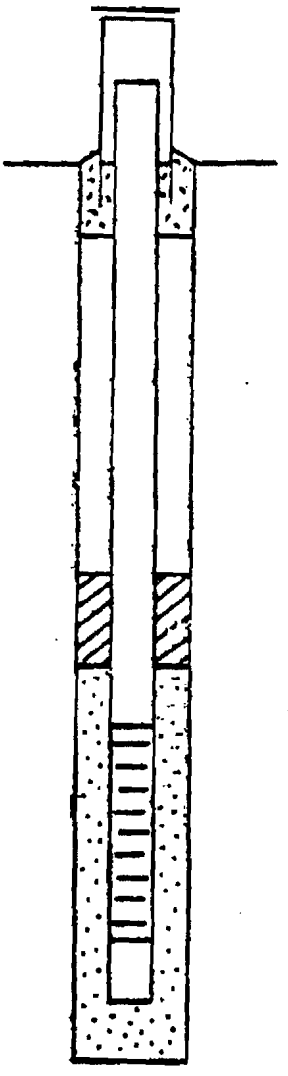
Site PAS Well No. LR-2

Total Depth 56.5' Surface Elev. 287.5' Top Riser Elev. 289.85'

Water Levels (Depth, Date, Time) _____ Date Installed 11-17-88

Riser:	Dia.	2"	Material	304 s.s.	Length	49'	
Screen:	Dia.	2"	Material	304 s.s.	Length	10'	Slot Size 0.010"
Prot. Csg:	Dia.	6"	Material	steel	Length	7'	

SCHEMATIC



39" Prot. Csg stickup

36" Riser stickup

Ground Surface

Surface Seal Type concrete

3' Bottom Surface Seal

Grout Type cement/bentonite

Seal Type bentonite slurry

42' Top Seal

44' Top Sand Pack

45'10" Top Screen

Sand Pack Type/Size #4 QROK

55'10" Bottom Screen

56' Bottom Sump/Wellpoint

56'6" Total Depth of Boring

Comments rock at 41.5'...took drillers three days to install this well

Driller T. Burnham

Geologist _____

DEC Inspector K. Edwards

MONITOR WELL CONSTRUCTION REPORT

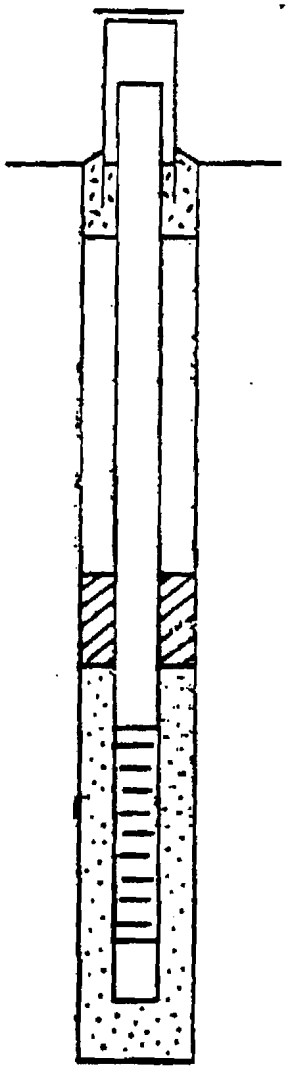
Site PAS Well No. LD-3

Total Depth 27'7" Surface Elev. 275.8' Top Riser Elev. 278.62'

Water Levels (Depth, Date, Time) _____ Date Installed 11-15-88

Riser:	Dia.	2"	Material	304 s.s.	Length	20'	
Screen:	Dia.	2"	Material	304 s.s.	Length	10'	Slot Size 0.010"
Prot. Csg:	Dia.	6"	Material	steel	Length	7'	

SCHEMATIC



39" Prot. Csg stickup

36" Riser stickup

Ground Surface

3' Bottom Surface Seal

Surface Seal Type concrete

Grout Type cmement/bentonite

Seal Type bentonite slurry

14' Top Seal

16' Top Sand Pack

17'1" Top Screen

Sand Pack Type/Size #4 QROK

27'1" Bottom Screen

27'3" Bottom Sump/Wellpoint

27'7" Total Depth of Boring

Comments two 5' screens

Driller M.Hawkins

Geologist _____

DEC Inspector R. Edwards

MONITOR WELL CONSTRUCTION REPORT

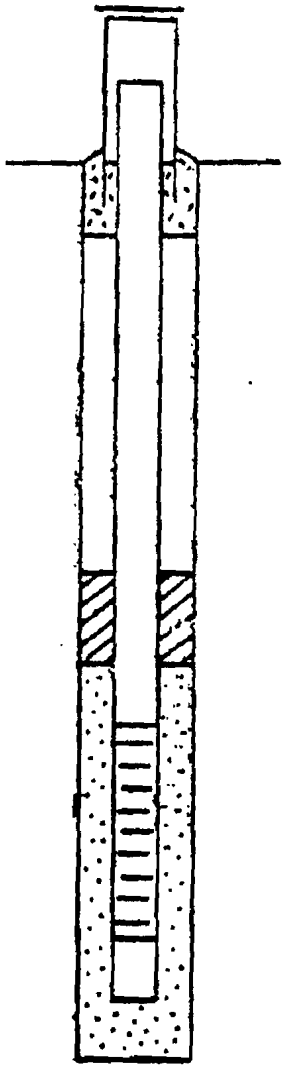
Site PAS Well No. LR-3

Total Depth 64' Surface Elev. 275.5' Top Riser Elev. 278.06'

Water Levels (Depth, Date, Time) _____ Date Installed 11-22-88

Riser: Dia. 2" Material 304 s.s. Length 56'
Screen: Dia. 2" Material 304 s.s. Length 10' Slot Size 0.010"
Prot. Csg: Dia. 6" Material steel Length 7'

SCHEMATIC



36" Prot. Csg stickup

33" Riser stickup

Ground Surface

3' Bottom Surface Seal

Surface Seal Type concrete

Grout Type cement/bentonite

Seal Type bentonite slurry

49' Top Seal

52' Top Sand Pack

53'8" Top Screen

Sand Pack Type/Size #4 QROK

63'8" Bottom Screen

63'10" Bottom Sump/Wellpoint

64' Total Depth of Boring

Comments _____

Driller M. Hawkins

Geologist _____

DEC Inspector R. McNamee

MONITOR WELL CONSTRUCTION REPORT

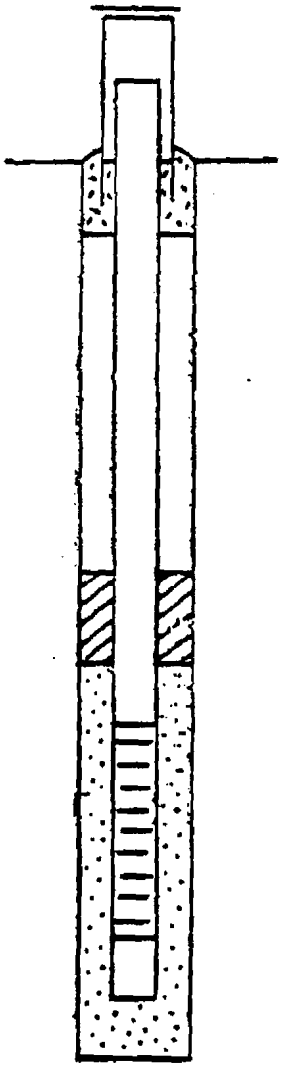
Site PAS Well No. LD-4

Total Depth 30.5' Surface Elev. 276.3' Top Riser Elev. 279.25'

Water Levels (Depth, Date, Time) _____ Date Installed 11-4-88

Riser:	Dia.	2"	Material	304 s.s.	Length	23'	
Screen:	Dia.	2"	Material	304 s.s.	Length	10'	Slot Size 0.010"
Prot. Csg:	Dia.	6"	Material	steel	Length	7'	

SCHEMATIC



38" Prot. Csg stickup

36" Riser stickup

Ground Surface

3' Bottom Surface Seal

Grout Type cement/bentonite

17' Top Seal

19' Top Sand Pack

19'10" Top Screen

29'10" Bottom Screen

30' Bottom Sump/Wellpoint

30'6" Total Depth of Boring

Surface Seal Type concrete

Seal Type bentonite slurry

Sand Pack Type/Size #4 QROK

Comments liner not encountered

Driller T. Burnham

Geologist _____

DEC Inspector R. McNamee

DUNN GEOSCIENCE CORP.

Rock Core Log

Surface Elev.		Hole Depth	TD = 89'
Inclination From Horiz.		Bearing	
Boring No.	OD-1	Job No.	553-1-3063
Client	URS Engineering/PAS Site/L-1	Inspector	J. Borkland
Location	PAS Site, Oswego, New York	Log Date	10/29/84
Drilling Co.	Rochester Drilling	Rig.	CME-55
Driller	Steve Dyer	Drill	C to C
Casing Used	4" stainless steel to 39.5'	Sheet	1 of 2
Core Size	NX Cover		

Location Plan

Surface Outcrops

Purpose of Log: Log Bedrock

Bedding ∠ to Core Axis	Rock Color	Graphic Log	Depth Scale	Geologic Description	Remarks	Joints	Fillings etc.	Stabilized Water Levels	Drilling Rate Min./Ft.	Core Recovery and R.Q.D. (25 50 75 90)	"D" Decomposition	"S" Strength	"F" Fracturing
			5		See "Test Boring Log" for description of soil samples.								
			10	Oxidized Till									
			15–35	Reduced Till									
Run 1	Grey-Green		40–45	Bedrock: Grey-Green med-fine grained glauconitic sandstone. Some thin (<4") grey pebbly lenses, few thin (<3") green muddy siltstone lenses	No large (>2") areas of significant localized fractures. All fractures bedding plane +/-, and all in or near areas of mudstone lenses					rec = 100% RQD = 90% Hard			F-1 - F2
Run 2	Grey-Green		50	Grey-green glauconitic med-fine grained sandstone.	Several areas of extreme water loss (at 53' & 57.5'					rec = 85% RQD = 95% Hard			F-1 - F

553-01-3063 OD-1

ATTACHMENT 1

WELL CONSTRUCTION LOGS

URS Company Inc.
CONSULTING ENGINEERS
NEW YORK NEW JERSEY

TEST BORING
BORING NO.

PROJECT	
CLIENT	
BORING CONTRACTOR	
SHEET NO.	
JOB NO.	
ELEVATION	
DATE STARTED	
DATE FINISHED	
DRILLER	
DRILL RIG	
INSPECTOR	

GROUND WATER

DATE	TIME	WATER EL.	SCREEN

	CAS	SAMP	CORE	TUBE
TYPE	Steel	SS		
DIA.	6"	2"		
WT.		140 lb		
FALL		30"		

WELL CONSTRUCTION	DEPTH BELOW	SAMPLE NO	SAMPLE TYPE	BLOWS PER 6 INCHES		CLASSIFICATION	REMARKS
3"	0	1				FILL-Dark Brown Silty Fine SAND, Some Gravel, Cobbles & Boulders, Trace Clay. Moist to Wet. Loose.	Sample S-1 0.0'-5.0' Drill Cuttings
	5	2	SS	4	7		
				9		Saturated at 5.0'	
		3					Sample S-3 6.5'-10.0' Drill Cuttings
	10	4	SS	14	18	Becoming more medium sandy & gravelly.	
				33	41		
		5	SS	22	60		
				50/	2	TILL-Brown Fine Sandy SILT, Some Gravel, Trace Clay. Occurrence of Zones of Orange Brown Oxidation. Moist. (Oxidized Till)	12.5' Elevation 270.6'
		6	SS	25	60/		
	15	7	SS	53/	2		
6"						TILL-Gray SILT, Some Small Gravel, Trace Fine Sand and Clay. Moist. Dense. (Reduced Till).	14.5' Elevation 265.6' Boring Terminated at 16.5'. Elevation 266.6'
	20						
	25						
	30						
	35						
	40						
	45						

URS [illegible]
CONSULTING ENGINEERS
NEW YORK NEW JERSEY

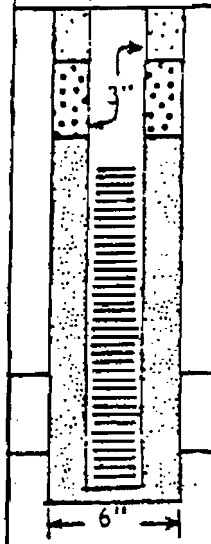
TEST BORING LOG
BORING NO. [illegible]

PROJECT	[illegible]
CLIENT	[illegible] DEC
BORING CONTRACTOR	[illegible]
SHEET NO.	1 OF [illegible]
JOB NO.	[illegible]
ELEVATION	[illegible]
DATE STARTED	[illegible]
DATE FINISHED	[illegible]
DRILLER	Mike [illegible]
DRILL RIG	Schram [illegible]
INSPECTOR	[illegible]

GROUND WATER

DATE	TIME	WATER EL.	SCREEN
[illegible]	[illegible]	[illegible]	[illegible]

	CAS	SAMP	CORE	TUBE
TYPE	[illegible]	SS		
DIA	[illegible]	[illegible]		
WT		140 lb		
FALL		30		



DEPTH FEET	SAMPLE NO	TYPE	BLOWS PER 6 INCHES		CLASSIFICATION	REMARKS
0	1				FILL-Dark brown silty fine to medium SAND, some gravel, trace clay. Moist to Wet. Loose.	Samples S-1 thru S-5 0.0'-10.0' Drill Cuttings.
	2					
5	3				Saturated at 5.0'	
	4				Occassional cobbles and boulders.	
	5				Becoming very gravelly at 8.0'	
10	6	SS	4	6		
			9	15		12.0'-Elevation 271.9'
	7	SS	6	13	TILL-Brown-reddish brown fine sandy SILT, some gravel, trace clay. Wet to Moist. (Oxidized Till)	
			21	33		
15	8	SS	20	81		14.5'-Elevation 269.4'
			[illegible]	80/	TILL-Gray SILT, some small gravel, trace fine sand and clay. Moist. Dense. (Reduced Till)	Boring Terminated at 16.0'. Elevation 67.9'
20						
25						
30						
35						
40						
45						

URS Company, Inc.
Consulting Engineers
New York New Jersey

TEST BORING LOG

BORING NO. SKW-3

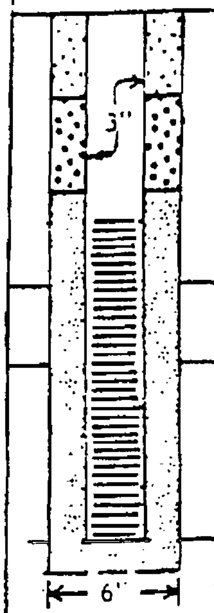
PROJECT	[illegible]
CLIENT	[illegible]
BORING CONTRACTOR	Frey Well Drilling
SHEET NO.	1 OF 1
JOB NO.	[illegible]
ELEVATION:	[illegible]
DATE STARTED:	6/26 [illegible]
DATE FINISHED:	6 [illegible]
DRILLER:	Mike Frey
DRILL RIG:	Schram TH-66
INSPECTOR:	AJL

GROUND WATER

DATE	TIME	WATER EL	SCREEN
[illegible]	[illegible]	[illegible] 55	265 [illegible]

	CAS	SAMP	CORE	TUBE
TYPE	Steel	SS		
DIA.	6"	[illegible]"		
WT.		140 lb		
FALL		30"		

WELL CONSTRUCTION



Sample No.	Type	Blows per 6 inches		Classification	Remarks
1				FILL-Dark Brown silty fine to medium SAND, some gravel, cobbles and boulders, trace clay. Moist. Loose.	Samples S-1 thru S-3 0.0'-6.0' Drill Cuttings
2					
3					
4	SS	4	2	Becoming wet at 7.0'	
		9	18	Becoming, very gravelly and saturated	
5	SS	5	12	at 7.8'	9.0'-Elevation 273.8'
		27	47	TILL-Brown-reddish brown silty	
6	SS	14	39	fine SAND, some gravel, trace clay.	
		49	42	Wet to moist. (Oxidized Till)	11.5'-Elevation 271.3'
7	SS	12	10	Dark gray and black fine SAND and	Till apparently discolored by chemicals 11.5'-17.0'
		17	14	GRAVEL. Wet to saturated.	
8	SS	5	43		
[illegible]		50/	2	Boulders and Gravel 15.2'-17.0'	Samples S-9 and S-10 16.0' and 17.0' Drill cuttings.
[illegible]					
[illegible]	SS	66	50/1	TILL-Gray silty fine SAND, little gravel, trace clay. Damp to dry. Dense. (Reduced Till)	17.0'-Elevation 265.8'
					Boring terminated at 18.0'. Elevation 264.8

Depth in feet: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45

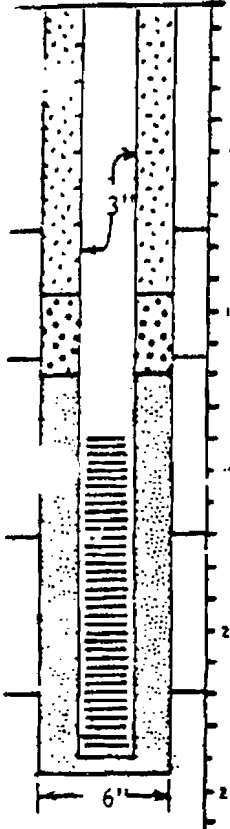
URS Company, Inc.
CONSULTING ENGINEERS
NEW YORK NEW JERSEY

TEST BORING LOG
BORING NO. SW-4

PROJECT: PAS Oswego
CLIENT: NYS DEC
BORING CONTRACTOR: Frey Well Drilling

SHEET NO. 1 OF 1
JOB NO.: 35070.01
ELEVATION: 281.5
DATE STARTED: 6/27/86
DATE FINISHED: 6/30/86
DRILLER: Mike Frey
DRILL RIG: Schram TH-66
INSPECTOR: AJL

GROUND WATER				CAS.	SAMP	CORE	TUBE
DATE	TIME	WATER EL	SCREEN	TYPE	Steel	SS		
7/1/86	1:30	268.87	257.5-267.5	DIA.	6"	2"		
				WT.		140lb		
				FALL		30"		

WELL CONSTRUCTION	DEPTH IN FEET	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
	0	1			FILL-Dark brown silty fine SAND, some gravel, cobbles & boulders, trace clay. Damp to moist. Loose.	Sample S-1 0.0'-6.0' Drill Cuttings
	5	2	SS	1 6		
				12 9		7.5' Elevation 274.0'
		3	SS	6 7	TILL-Brown-reddish brown silty fine to medium SAND, some gravel, trace clay. Moist to wet. (Oxidized Till)	Samples S-4 thru S-9 10.0'-17.0' Drill cuttings due to boulders
	10			7 7		
		4			Boulders 10.0'-11.5'	
						11.5' Elevation 270.0'
		5			Dark gray and black fine SAND and Gravel. Moist.	Till apparently discolored by chemicals 11.5'-17.0'
		6				
		7			Boulders 12.0'-17.0'	
		8				
		9				17.0'-Elevation 264.5'
					TILL as above. Moist to Dry.	
		10		58 60/.3		
	20	11		25 65	Boulders 19.0'-22.0'	
						22.0' Elevation 259.5'
		12		29 28	TILL - Gray silty gravelly fine SAND. Saturated. Soft. (Reduced Till)	Boring Terminated at 24.5'. Elevation 257.0'
				17 23		
	25			25		
	30					
	35					
	40					
	45					

URS Company, Inc.
CONSULTING ENGINEERS
NEW YORK NEW JERSEY

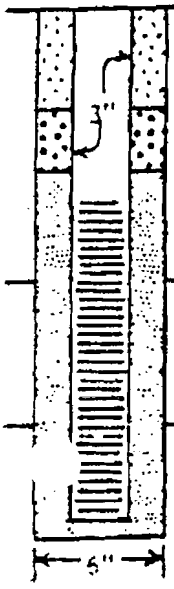
TEST BORING LOG
BORING NO. SWB-5

PROJECT: PAS Oswego
CLIENT: NYS DEC
BORING CONTRACTOR: Frey Well Drilling
GROUND WATER

DATE	TIME	WATER EL.	SCREEN
7/1/96	2:00	263.63	254.6-264.6

	CAS.	SAMP	CORE	TUBE
TYPE	Steel	SS		
DIA.	6"	2"		
WT.		140 lb		
FALL		30"		

SHEET NO 1 OF 1
JOB NO 35070.07
ELEVATION: 271.1
DATE STARTED: 6/30/96
DATE FINISHED: 6/30/96
DRILLER: Mike Frey
DRILL RIG: Schram TH-66
INSPECTOR: AJL

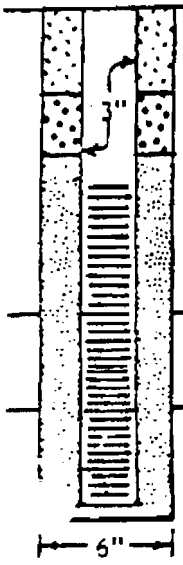
WELL CONSTRUCTION	DEPTH IN FEET	SAMPLE NO	SAMPLE TYPE	BLOWS PER 6 INCHES		CLASSIFICATION	REMARKS
	0	1				FILL-Dark brown to black silty fine SAND, some gravel and cobbles, trace clay. Moist. Loose.	Samples S-1 thru S-3 0.0'-6.0' Drill Cuttings
		2					
	5	3				Becoming wet at 5.0'	
		4	SS	3	5		
				2	3		
		5	SS	2	7		9.0'-Elevation 262.1'
	10			12	12	TILL - Greenish gray silty fine SAND, some gravel, trace clay. Wet to saturated. (Oxidized Till)	Till apparently discolored by chemicals 9.0'-13.5'
		6	SS	3	5		
				5	5		
		7	SS	11	16		
				31	60		13.5'-Elevation 257.6'
	15	8	SS	26	60/4	TILL-Gray silty gravelly fine SAND. Moist. Dense. (Reduced Till)	Boring terminated at 17.0'. Elevation 254.1
		9	SS	25	25		
				58	55		
	20						
	25						
	30						
	35						
	40						
	45						

URS Company, Inc.
CONSULTING ENGINEERS
NEW YORK NEW JERSEY

TEST BORING LOG
BORING NO. SWM-6

PROJECT: PAS Oswego
SHEET NO. 1 OF 1
CLIENT: NYS DEC
JOB NO.: 35070.07
BORING CONTRACTOR: Frey Well Drilling
ELEVATION: 270.0
DATE STARTED: 7/1/86
DATE FINISHED: 7/1/86
DRILLER: Mike Frey
DRILL RIG: Schram TH-66
INSPECTOR: AJL

GROUND WATER				CAS.	SAMP	CORE	TUBE
DATE	TIME	WATER EL.	SCREEN	TYPE	Steel	SS		
7/1/86	2:00	257.46	254.0-264.0	DIA.	6"	2"		
				WT.		140lb		
				FALL		30"		

WELL CONSTRUCTION	DEPTH IN FEET	NO.	TYPE	BLOWS PER 6 INCHES		CLASSIFICATION	REMARKS
	0	1				FILL-Dark brown silty fine SAND, some gravel and cobbles, trace Moist to Wet. Loose.	Sample S-1 0.0'-6.0' Drill Cuttings
	5	2	SS	2	2		
				6	7		
		3	SS	17	2		
				3	6		10.0'-Elevation 260.0'
	10	4	SS	6	12	TILL-Dark gray silty fine SAND, some gravel, trace clay, occurrences of reddish brown fine to medium sand seams. Moist. (Oxidized Till)	TILL apparently discolored by chemicals.
				15	12		
		5	SS	44	18		
				38	48		13.0'-Elevation 257.0'
		6	SS	58	70		
	15			50/.2		TILL - Gray silty gravelly fine SAND, occurrence of medium sand seams. Moist to Wet. Dense. (Reduced Till)	Boring Terminated At 16.5'. Elevation 253.5'
	20						
	25						
	30						
	35						
	40						
	45						

TEST BORING LOG

BORING NO. LD-7A

SHEET 1 OF 1

PROJECT Pollution Abatement Services Site Oswego, NY

DRILLING CONTRACTOR Atlantic Testing Canton, NY

PURPOSE Long-term monitoring program

ELEVATION

DATUM

DATE STARTED 11/17/88

DATE FINISHED 11/17/88

DRILLER T. Burnham

INSPECTOR R. McNamee

GROUNDWATER				CASING	SAMPLE	CORE
DATE	TIME	DEPTH	CASING	TYPE	HSA	S.S.	
				DIAMETER	4¼"	2"	
				WEIGHT		140#	
				FALL		hyd hammer	

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
		2-3			Dark Brown coarse-fine SAND, some Silt, organics	9" recovery
2		4-5				
		8-6			Dk Br coarse SAND and Gravel, stone in tip of spoon (fill material)	8" recovery
4		9-11				
		12-12			2" Br SAND and Gravel	12" recovery
		31-18			10" RedBrn SILT and Gravel, some fine Sand	gravel in tip
6		13-11			Grey GRAVEL with Brown Silty Clay	10" recovery
		12-11				tip of spoon is purple
8		6-9			2" Br Silty GRAVEL	10" recovery
		11-14			8" Purple-stained Silty SAND and Gravel	WET
10					2" Blk fine GRAVEL in tip of spoon	
		7-7			Grey/Brown mottled coarse-fine Silty SAND WET w fine Gravel seam	16" recovery
		7-15				
12		11-9			Spoon was retrieved with black, oily substance covering it	No recovery
		7-12				
14		15-43/4"			Black-stained Silty fine SAND with Gravel, soupy, oily saturated	9" recovery
		--			Tip of spoon had moist Grey med-fine Silty SAND (½" thick+/-)	Water at 14'8" as per driller
16		9-69				
		100/4½"			Oily grey Silty GRAVEL with Sand	15" recovery
18		100/4"			Grey Silty SAND and Gravel Wet to Moist	10" recovery
					End of boring 18'10"	No visible contamination

DUNN GEOSCIENCE CORP
Rock Core Log

Surface Elev.		Hole Depth	TD = 89'
Inclination From Horiz.		Bearing	
Job #	553-[illegible]063	Boring No.	OD-1
Client	URS Engineering/PAS Site/L-1	Inspector	J. Borkland
Location	PAS Site, Oswego, New York	Log Date	10/29/84
Drilling Co.	Rochester Drilling	Rig	CME-55
Driller	Steve Dyer	Drill	C to C
Casing Used	4" stainless steel to 39.5'	Sheet	1 of 2
Core Size	NX Cover		

Location Plan

Surface Outcrops

Purpose of Log: Log Bedrock

Rock Quality Parameters: "D" Decomposition; "S" Strength; "F" Fracturing

Run No.	Bedding & Joints to Core Axis	Rock Color	Graphic Log	Depth Scale	Geologic Description	Remarks	Joints, etc.	Fillings	Stabilized Water Levels	Drilling Rate Min./Ft.	Core Recovery and R.Q.D. (25 50 75 90)
				5	Oxidized Till	See "Test Boring Log" for description of soil samples.					
				10							
				15							
				20	Reduced Till						
				25							
				30							
				35							
Run 1		Grey-Green		40	Bedrock: Grey-Green med-fine grained glauconitic sandstone. Some thin (<4") grey pebbly lenses, few thin (<3") green muddy siltstone lenses	No large (>2") areas of significant localized fractures. All fractures bedding plane +/-, and all in or near areas of mudstone lenses					rec = 100% RQD = 90% Hard
				45							
Run 2				50	Grey-green glauconitic med-fine grained sandstone.	Several areas of extreme water loss (at 53' & 57.5'					rec = 85% RQD = 95% Hard
				55							

553-01-3063 OD-1 1 of 2

F-1 - F2 F-1 - F-2

DUNN GEOSCIENCE CORP.
Rock Core Log

Surface Elev.		Hole Depth	Boring No. 00
Inclination From Horiz.		Bearing	Job No.
Client	URS Engineering/PAS Site/L-1	Inspector	Log Date
Location	Page 2	Casing Used	Sheet 2 of 2
Drilling Co.	Rig.		
Driller	Drill to	Core Size	

Location Plan

Surface Outcrops

Purpose of Log

% Water Loss	Bedding ∠ to Core Axis	Rock Color	Graphic Log	Depth Scale	Geologic Description	Remarks	Joints	Fillings etc.	Stabilized Water Levels	Drilling Rate Min./Ft.	Core Recovery and R.Q.D. 25 50 75 90	Rock Quality Parameters "D" Decomposition	"S" Strength	"F" Fracturing
Run 2					Run 2 (Cont'd)									
Run 3				60	Grey-green med-fine grained glauconitic sandstone. Several joints w/green mudstone fillings, horiz. joints.	Some cross bedding and turbidity swirling apparent in upper 5' of core					rec = 91% RQD = 87% Hard	D-2	S-2	F-2 - F-3 F-1 - F-2 F-2 - F-3
				65										
Run 4		Grey-Green		70	Grey-green med-fine grained glauconitic sandstone. Slightly horizontally jointed, some filling of joints w/green mudstone.	Same as above. Pronounced x-beds and swirls					rec = 93% RQD = 96% (v. good) Hard	D-2	S-2	
				75										
Run 5				80	Same as above. Slightly more jointed. Horizontal fractures. RQD at only 81%	Some water loss here, in middle of core where most fracturing					rec = 93% RQD = 81% Hard	D-2	S-2	
				85										

823-01-3003 UU-1

DUNN GEOSCIENCE CORPORATION LATHAM, NEW YORK (518) 785-8102	TEST BORING LOG	BORING NO. OD-2
PROJECT PAS Site		
CLIENT URS Engineering		SHEET 1 OF 1
DRILLING CONTRACTOR Rochester Drilling		JOB NO. 04-553-1-3063
PURPOSE		ELEVATION 267.1' MSL

GROUNDWATER					CASING	SAMPLE	CORE	
DATE	TIME	DEPTH	CASING	TYPE	Stainless Stee	SS	NX	DATUM Land Surface
10/15	1:30	+/- 6'	-------	DIAMETER	4" ID	1-3/8		DATE STARTED Oct. 15, 1984
10/15	4:30	+/- 10'	-------	WEIGHT	------	140 lbs.		DATE FINISHED Oct. 16, 1984
10/16	8:00 AM	+/- 8'	-------	FALL	------	30"		DRILLER Joe
								INSPECTOR Goins/Borkland

DEPTH FT.	CASING BLOWS	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
		S-1	7, 7, 5, 7	SM		Br f S, l $ & C brown fine SAND, little silt & clay	Dry Fill recovery = 1.8'
2		S-2	14, 15, 13, 13	SM		Br mf+ S, l C & $ brown medium fine SAND, little clay & silt	Dry fill recovery = 1.7'
4							
5		S-3	4, 3, 2, 2	SM		Br C & $ s, f S brown clay & silt, some fine sand (+/-) Water Table Br $tC, l fS	day - damp rec.=6.2'-6.4' v. wet rec.=6.6'-6.8' penet.=1.0 ton/ft^2
6							
8							
		S-4	100/6"	SW		Oxidized Till Gr Br R cmf S, a C & $, t f G refusal = boulder	wet rec.=9'-9.5' penet.=0.8 T/ft^2
10							

DUNN GEOSCIENCE CORPORATION LATHAM, NEW YORK	TEST BORING LOG	BORING NO. OD-2
PROJECT PAS Site		SHEET 2 OF 2
CLIENT URS Engineering		JOB NO. 04-553-1-3063

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
						(Oxidized Till)	
15'		S-5	33 40 35 30	GM		Br R Gn cm$^{(+)}$f S, l Cy$, s mf^{+} G Gr cmf^{+} S, t $ & C, a mf^{+} G	damp oxi. till damp - dry reduced Till rec.=15.3'-16.1'
						(Reduced Till)	
20'		S-6	34 74 83 94	SM		Gr mf^{+} S, l Cy$, s^{-} mf^{+} G degraded Gr - Gn rock (Weathered Bedrock + Till)	dry - damp rec.=20.4-22' degraded rx frm 21.5' switched to 22' Mud Rotary No split-spoon taken. Rock chips collected
		S-7	—			Fractured Gr-Green ss. Large chips out w/mud-rotary. Some cS a m$^{(+)}$f G both red & brn. exotics & insitu pebbles prob. in fractures	
25'						Competent Rx. Gray - Med Green, med. grained glauconitic Sandstone	
						— Bottom w/auger —	
						Cored to 71'	See "Rock Core Log" for descript. of bedrock.
						(Bedrock)	
						Cased with standpipe to 27' stickup = 3.33 feet	

DUNN GEOSCIENCE CORP.
Rock Core Log

Surface Elev.		Hole Depth TD = 71'	Boring OD-2
Inclination From Horiz.		Bearing	Job No.
Client	URS Engineering/PAS Site/L-1	Inspector J. Borkland	Log Date 10/31/84
Location	PAS Site, Oswego, New York	Casing Used	4" stainless steel standpipe
Drilling Co.	Rochester Drilling	Rig. CME 55	Sheet 1 of 2
Driller	Steve Dyer	Drill C to C	Core Size NX Core

Location Plan

Surface Outcrops

Purpose of Log: Log Bedrock

Water Loss %	Bedding ∠ to Core Axis	Rock Color	Graphic Log	Depth Scale	Geologic Description	Remarks	Joints	Fillings etc.	Stabilized Water Levels	Drilling Rate Min./Ft.	Core Recovery and R.Q.D. 25 50 75 90	Rock Quality Parameters "D" Decomposition	"S" Strength	"F" Fracturing
				5	See "Test Boring Log" for description of soil samples.									
				10	Oxidized Till									
				15										
				20	Reduced Till									
		Run 1		25	Weathered Bedrock Competent rock. Grey-green, med grain glauconitic sandstone w/few pebbly lenses	Few nearly horizontal sub bedding plane joints					rec = 97% RQD = 82% Hard	D-2	S-2	F-1 - F-2
				30	Grey-green med grain glauconitic sandstone w/few greyish pebbly lenses						rec =103% RQD = 51%	D-2	S-2	F-1 - F-2
		Run 2		35	Same rock, but more heavily fractured w/semi-horizontal bedding plane joints. Stained. Heavily jointed (horiz.) esp. top 5'	Possible contamination in joint at 36.0'. Yellow & red stains. Maybe just weathering phenomenon. No smell.			H_2O Loss		rec =100% RQD = 49% (Poor) Hard	D-2	S-2	F-4
				40										
				45	Same rock, more massive, less jointed. Jointed areas more broken up, all cracks horizontal (+/-)	Few jointed areas. Joints slightly stained			Large H_2O loss		rec = 95% RQD = 91% (V. Good)	D-2	S-2	F-1 - F-2
		Run 3		50	At 46' & 46.5' thin .5" lenses of green mudstone causing horiz. fractures	At 44.5' is 1.5"-2.0" lense of soft silty mud in a joint								

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UKU OSWEGO SANDSTONE

OD-2 | 2

DUNN GEOSCIENCE CORP.
Rock Core Log

Client: URS Engineering/PAS Site/L-1		Inclination From Horiz.	Bearing	Job No.
Location: PAS Site /Page 2		Inspector	Log Date	Sheet 2 of 2
Drilling Co.	Rig.	Casing Used		
Driller	Drill to	Core Size		

Location Plan

Surface Outcrops

Purpose of Log

Bedding & Its Core Axis	Rock Color	Graphic Log	Depth Scale	Geologic Description	Remarks	Joints	Fillings etc.	Stabilized Water Levels	Drilling Rate Min./Ft.	Core Recovery and R.Q.D. 25 50 75 90	Rock Quality Parameters: "D" Decomposition	"S" Strength	"F" Fracturing
	Run 4 Run 5 Run 6		60	Grey-green med-fine grain glauconitic sandst. Few pebbly lenses (greyer). Few green mudstone inclusions (small lenses)						rec.=100% RQD = 97% Hard	D-2	S-2	F-1 - F-2
			65	Same as above	Joints slightly stained & have some green mudstone in them.					rec.=100% RQD = 96%	D-2	S-2	F-1 - F-2
			70	Same rock as above. Some good x-bedding in lower foot of core 71'-72'. Green shaley seem at very bottom of core. Unconsolidated green mud in last 2".	Shaley seam (1") at 71.0'. Bottomed by 2" clayey mud (green). Diamond bit ground in at this point, unable to drill further.					rec.= 78% RQD = 90% Hard	D-2	S-2	F-2
			75										
			80										
			85										
			90										

DUNN GEOSCIENCE CORPORATION LATHAM, NEW YORK (518) 783-8102	TEST BORING LOG	BORING NO. OD-3
PROJECT URS/PAS Site/ L-1		
CLIENT URS Engineering		SHEET 1 OF 3
DRILLING CONTRACTOR Rochester Drilling		JOB NO. 04-553-1-3063
PURPOSE		ELEVATION 275.0' MSL

GROUNDWATER				CASING	SAMPLE	CORE	DATUM Ground level
DATE	TIME	DEPTH	CASING	TYPE	Stain. steel	SS	NX	DATE STARTED 10/23/84
				DIAMETER	4" ID	1 1/3"		DATE FINISHED 10/24/84
				WEIGHT	---	140 lbs		DRILLER Joe
				FALL	---	30"		INSPECTOR J. Borkland

DEPTH FT.	CASING BLOWS	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
0			7			Fill & garbage (car parts, glass, etc in this area	dry rec.=2.0'
			9	SM		Cobble at 6" - pounded spoon through	
		S-1	9			Br Gr R cmf S, s Cy$, t f G	Is core of cobble of bedrock material in sample
			13			brown grey w/red coarse to med to fine SAND, some Clayey Silt, trace fine Gravel	
5							
7'			39			Br R cmf S, s Cy$, 1 f G	damp rec.=2.0'
		S-2	55	7'8"		Br Gn R cmf S, s mf G, 1 CyS	dry core of bedrock material (cobble) in sample
			45	SW			
9'			59			Oxidized Till	
10							

NN GEOSCIENCE CORPORATION LATHAM, NEW YORK	TEST BORING LOG	BORING NO. OD-3
PROJECT URS/PAS Site/L-1		SHEET 2 OF 3
CLIENT URS Engineering		JOB NO. 04-553-1-3063

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
10			19			Br O, Br Gn cmf S, s Cy$, a mf G	damp
			38			(cobble in core)	
		S-3	43				
			39				
12						Oxidized Till	
						— Approx H_2O Table (?) —	
15			47			Br cmf S, s $ & C, s mf G	wet
		S-4	73				
			50/2"	SM		Br Gr cmf+ S, a $ & C, s mf G Brown Gray coarse to med to fine + SAND, and silt and clay, some medium to fine gravel	damp rec.-1.3'
17							
						Reduced Till	
20			27			Br Gr Gn cm+f+ S, s $ & C, s mf G	wet
			40	SM			
		S-5	49			Br Gn mf G a cmf S, 1 $ & C highly weathered bedrock and Reduced till	v. wet rec.=2.0'
			57				
22							

DUNN GEOSCIENCE CORPORATION LATHAM, NEW YORK	TEST BORING LOG	BORING NO. OD-3
PROJECT PAS Site/L-1		SHEET 3 OF 3
CLIENT URS Engineering		JOB NO. 04-553-1-3063

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
22						Reduced Till & Weathered Bedrock	
							saturated lots weathered bedrock rec.=.2'
25'		S-6	48/2"			Gn Br mf G, l cmf S, l S & C Bedrock: Gr Gn med - fine grained glauconitic sandstone w/few grayer pebbly lenses & some finer green siltstone layers.	
27'						Bottom w/auger Cored to 94' Cased with stand pipe to 27' Stickup = 2.89'	See "Rock Core Log" for bedrock description

DUNN GEOSCIENCE CORP.
Rock Core Log

Surface Elev.	Hole Depth TD = 94'	Boring No. OD-3	
Inclination From Horiz.	Bearing	Job No.	
Client URS Engineering/PAS Site/L-1	Inspector J. Borkland	Log Date 10/31/84	Sheet 1 of 2
Location PAS Site, Oswego, New York	Casing Used 4" stainless steel		
Drilling Co. Rochester Drilling	Rig Mobile B G1		
Driller Joe Kemp	Drill C to C	Core Size NX Rock Core	

Location Plan

Surface Outcrops

Purpose of Log: Log Bedrock

% Water Loss	Bedding & Joints to Core Axis	Rock Color	Graphic Log	Depth Scale	Geologic Description	Remarks	Joints	Fillings etc.	Stabilized Water Levels	Drilling Rate Min./Ft.	Core Recovery and R.Q.D. 25 50 75 90	Rock Quality Parameters "D" Decomposition	"S" Strength	"F" Fracturing
				5'	Fill & Garbage	See "Test Boring Log" for description of soil samples.								
				10'	Oxidized Till (?)									
				15'	Reduced Till									
				20'	Weathered Bedrock & Till									
				25'										
		Run 1		30'	Gray Green med-fine grained glauconitic sandst. Few thin pebbly lenses. Large semi-vertical fracture (or joint) from 28.2'-29.0' stained	Fracture in core		stain	Large H_2O Loss	4 min/ft.	rec = 93% RQD = 63% (fair)	D-2	S-1 - S-2	F-3
				35'										
		Run 2		40'	Gray-Green med-fine grained glavenitic sandst. Few greyer pebbly lenses, cross bedded sandst, few green mudstone lenses (probably solution fill)	Joints few and are generally single or paired, but seldom more than 2" of core in one place. Joints stained brown.			1000 gal H_2O Loss	4 min/ft.	rec = 98% RQD = 87% (good	D-2	S-1 - S-2	F-1 - F-2
				45'										
				50'										
				55'										

DUNN GEOSCIENCE CORP.
Rock Core Log

Surface Elev.	Hole Depth	Boring No.	D-3
Inclination From Horiz.	Bearing	Job No.	
Client: URS Engineering/PAS Site/L-1	Inspector	Log Date	Sheet 2 of 2
Location: PAS Site, Owsego	Casing Used		
Drilling Co.: Page 2	Rig.		
Driller	Drill to	Core Size	

Location Plan

Surface Outcrops

Purpose of Log

Bedding & Core Axis	Rock Color	Graphic Log	Depth Scale	Geologic Description	Remarks	Joints	Fillings etc.	Stabilized Water Levels	Drilling Rate Min./Ft.	Core Recovery and R.Q.D. (25 50 75 90)	Rock Quality Parameters "D" Decomposition	"S" Strength	"F" Fracturing
	Run 3		60'	Same rock as above. At 58' have 2" lense of green mudstone w/unconform top & below. Either crack caused by mudstone or mudstone filled fracture	Horiz. fracture (joint) at 54.5' shows black staining contaminant or natural? No smell that can be detected		Contam?			rec = 100% RQD = 85% (good)	D-2	S-2	F-2
	Run 4		65'	Same rock as above. Pebbly lense at 62.7'. Another fracture, filled w/mudstone at 66'						rec = 97% RQD = 97%	D-2	S-2	F-2
	Run 5		70'	Same rock as above. Few small grey pebbly lenses & few small green mudstone inclusions	Vertical cracks in core (not joints) from 68.5' to 69.5' and from 72' to 73'					rec = 99% RQD = 97% (excellent) Hard	D-2	S-2	F-2 - F-3
			75'										
			80'										
	Run 6		85'	Same rock as above, 82' - 83' grey turbid looking sandst. w/many small green mudstone inclusions.	Very few joints, are slightly stained. 2" green mudstone lenses at 91' and 94'					rec = 102% RQD = 98% Hard	D-2	S-2	F-1 - F-2
			90'										
			95'										

DUNN GEOSCIENCE CORPORATION LATHAM, NEW YORK (518) 783-8102	TEST BORING LOG	BORING NO. OD-4
PROJECT PAS Site/Subtask L-1		
CLIENT URS Engineering		SHEET 1 OF 1
DRILLING CONTRACTOR Rochester Drilling		JOB NO. 04-553-1-3063
PURPOSE		ELEVATION 271.0' MSL

GROUNDWATER					CASING	SAMPLE	CORE	
DATE	TIME	DEPTH	CASING	TYPE	Steel	SS	NX	DATUM G.L.
				DIAMETER	4" ID	1 1/3"		DATE STARTED 10/24/84
				WEIGHT	---	140 lbs		DATE FINISHED 10/25/84
				FALL	---	30"		DRILLER Joe Kemp
								INSPECTOR J. Borkland

DEPTH FT.	CASING BLOWS	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	IDENTIFICATION	REMARKS
		S-1	2 5 5 10			Br Cy$, a cmf S, t f G Brown Clayey Silt and coarse - med.- fine sand, trace fine Gravel Fill (?)	dry roots, organics rec.= 2.0'
2						---Approx. contact--- Oxidized Till	
5		S-2	50 73 43 31			Br mf S, s Cy$ Gr cmf S, a $yC, l mf G	dry rec.=.6' dry rec.=1.4'
7						Reduced Till	
10		S-3	113/4"			Cr cmf S, s Cy$, s cmf G (stopped on boulder)	dry - damp lots of decomposed bedrock
						---- Approx. contact ---- ---- WT (?) ---- Reduced Till & Decomposed Bedrock	
15		S-4	70/2"			Decomposed bedrock w/some Reduced till: Gn glauconitic ss + Gr cmf S, s Cy$	
17						---- Bedrock ----	Bottom w/auger Cored to 92'
20						Gr - Gn Glauconitic med grained sandst w/few pebbly lenses Cased with standpipe to 17' stickup = 3.85 feet	See "Rock Core Log" for bedrock description

DUNN GEOSCIENCE CORP.
Rock Core Log

Surface Elev.	Hole Depth TD = 92'	Boring	OD-4
Inclination From Horiz.	Bearing	Job No.	553-1-3063
Client URS Engineering/PAS Site/L-1	Inspector J. Borkland	Log Date 10/30/84	Sheet 1 of 2
Location PAS Site, Oswego, NY	Casing Used 4" stainless steel to		
Drilling Co. Rochester Drilling	Rig Mobile B-61		
Driller Joe Kemp	Drill to	Core Size	

Location Plan

Surface Outcrops

Purpose of Log

% Water Loss	Bedding & to Core Axis	Rock Color	Graphic Log	Depth Scale	Geologic Description	Remarks	Joints	Fillings etc.	Stabilized Water Levels	Drilling Rate Min./Ft.	Core Recovery and R.Q.D. 25 50 75 90	Rock Quality Parameters "D" Decomposition	"S" Strength	"F" Fracturing
				5	Oxidized Till									
				10	Reduced Till									
				15	Decomposed Bedrock & Till									
					Bedrock									
Core		Green-Grey		20	Green-grey glauconitic medium gained sandstone w/few pebbly lenses. Joints slightly stained, few horizontal fractures. Green muddy siltstone in joints.							D-2	S-2	F-3
				25										
				30	Same as above.	Joints filled w/green silt (decomposed bedrock) & slivers of bedrock. Joints filling with glauconitic mineralization. Several localized areas show mudstone development indicating slight facies. Few joints, no areas of med. or heavy jointing. Several pebbly lenses, several areas of solution pitting & backfill w/s+.				2.3 min/1 ft.		D-2	S-1 - S-2	F-1+ - F-2
				35										
Core				40	From 6.1' to 6.35' muddy seam of moderately fractured mudst. Sub-horizontal and slightly shaley									
				45										
Core				50	Grey-green glauconitic med grained sandstone. Several areas showing inclusions prob. solution pits backfilled. In some areas sow sm mudstn lenses.					5 min/ft.		D-2	S-1 - S-2	F-1+ - F-2

DUNN GEOSCIENCE CORP.
Rock Core Log

Surface Elev.	Hole Depth	Boring No.	OD-4
Inclination From Horiz.	Bearing	Job No.	
Client	Inspector	Log Date	Sheet 1 of
Location	Casing Used		
Drilling Co.	Rig.		
Driller	Drill to	Core Size	

Location Plan

Surface Outcrops | Purpose of Log

Depth Scale	Geologic Description	Remarks	Joints	Fillings etc.	Stabilized Water Levels	Drilling Rate Min./Ft.	Core Recovery and R.Q.D. 25 50 75 90	Rock Quality Parameters: "D" Decomposition	"S" Strength	"F" Fracturing
55	also several layers of mudstone deposition	several mudst. layers								
60	Mudst. layers appear to be bounded by unconform surfaces suggests fractures in rock solution filled w/mudst., subsequently compacted.									
65	Grey-Green med-fine grained glauconitic sandst. V. few areas of sm. mudst. lenses & few fillings of solution pits or borrows w/sand.	Any fractures related to mud & sand lense areas.				5 min/ft	rec = 101% RQD = 98% Hard	D-2	S-2	F-1 F-2
70										
75										
80	Grey-Green med-fine grain glauconitic sandstone. Several single small lenses of mudstone in areas of core throughout. Several changes from mostly grey ss to mostly green ss & vice versa. Grey sandstone areas are ones with green mudstone lenses. Several x-bedded areas.	Very few fractures, most of them in areas where have mostly grey ss with lots of mudstone lenses causing weakness. Thick lens (layer) of green mudstone from 85.8' to 86.1' perhaps filling fracture.				5 min/ft	rec = 100% RQD = 99% (excellent) Hard	D-2	S-2	F-1 F-2
85										
90										

% Water Loss: core core core

Bedding & to Core Axis

Rock Color: Grey-Green

Graphic Log

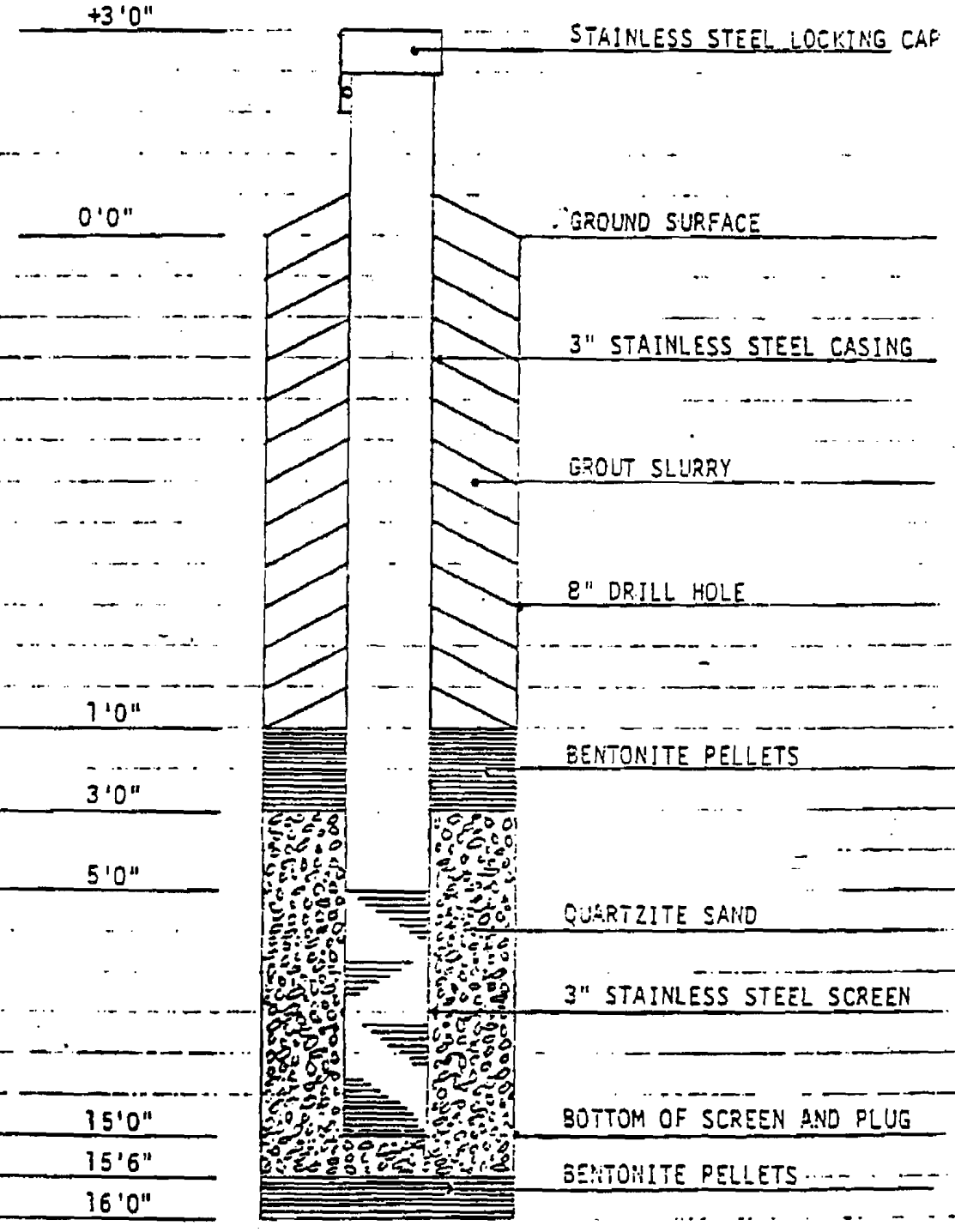
ORD. OSWEGO SANDSTONE

1553-15053 | OD-4

ROCHESTER DRILLING COMPANY, INC.
48 Steel Street
ROCHESTER, NEW YORK 14606
(716) 458-0821

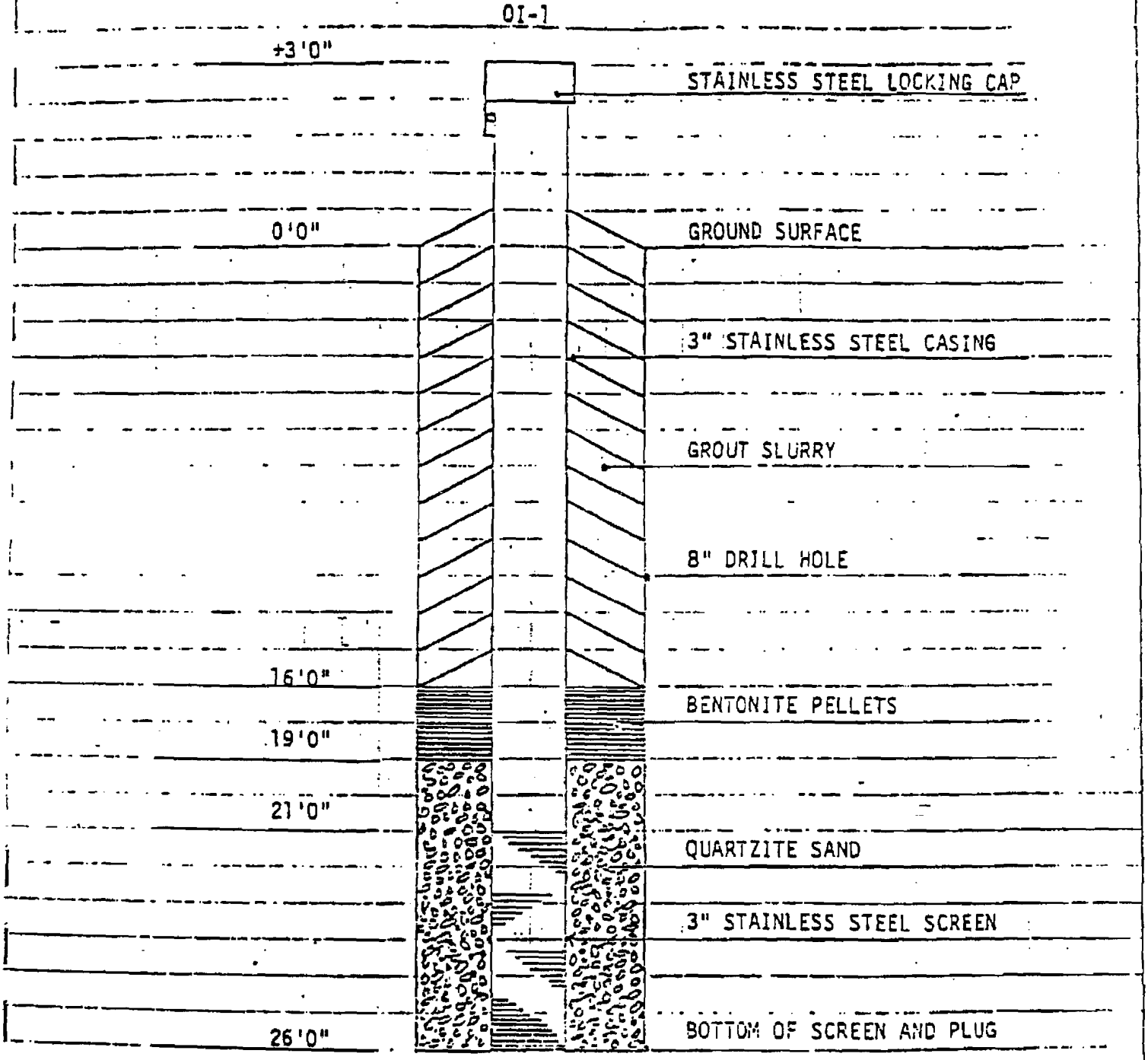
Job: East Side, City of Oswego, N.Y., [illegible]
Installation Date: 10/18/84
Sheet 2 of 2
Not to scale

OS-1



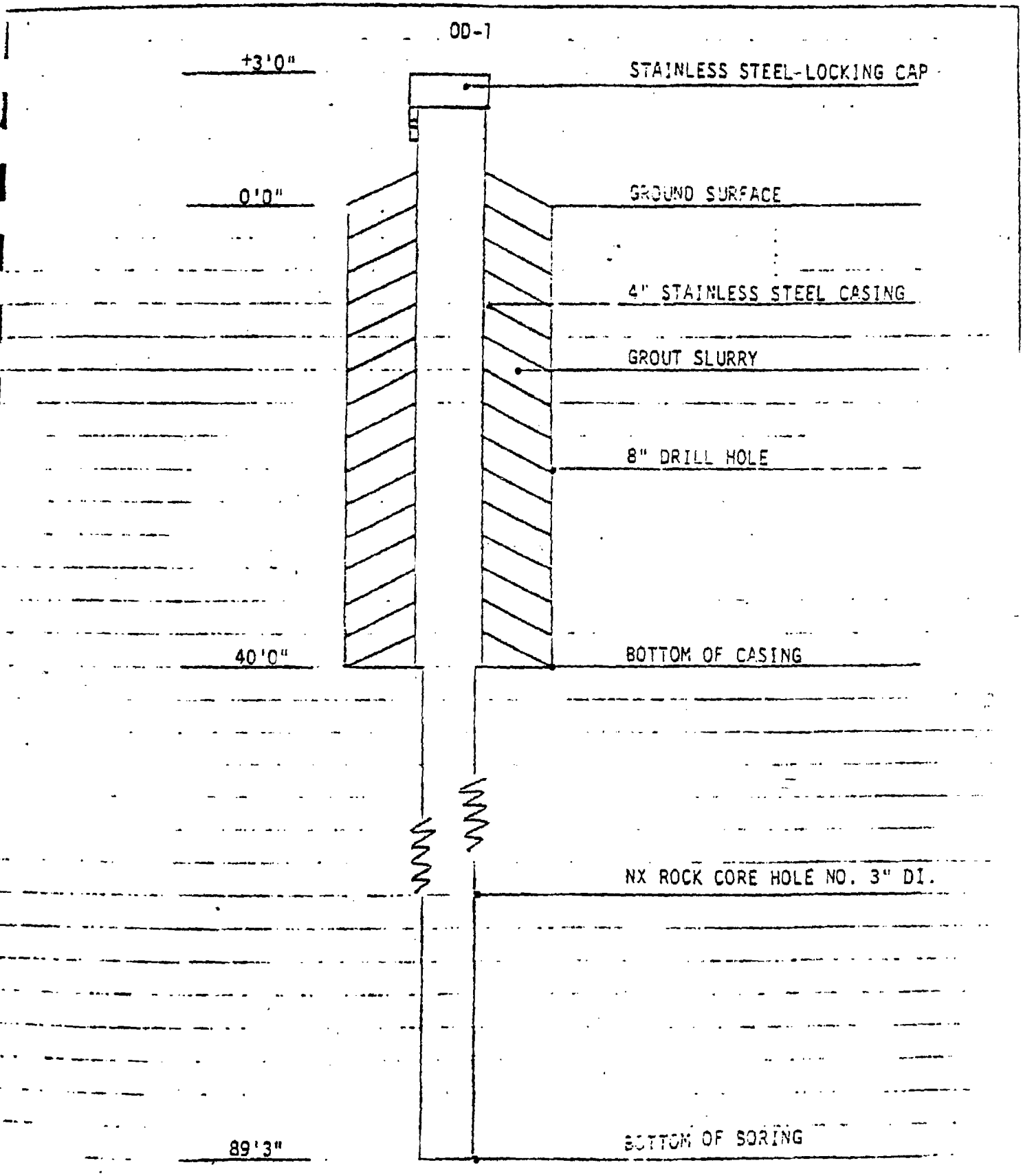
ROCHESTER DRILLING COMPANY, INC.
45 Elee Street
ROCHESTER NEW YORK 14606
(716) 458-0821

Job: East Side, City of Oswego, N.Y., [illegible]
Installation Date: 10/22/84
Sheet 2 of 2
Not to scale



ROCHESTER DRILLING COMPANY, INC.
45 Steel Street
ROCHESTER, NEW YORK 14605
(716) 458-0821

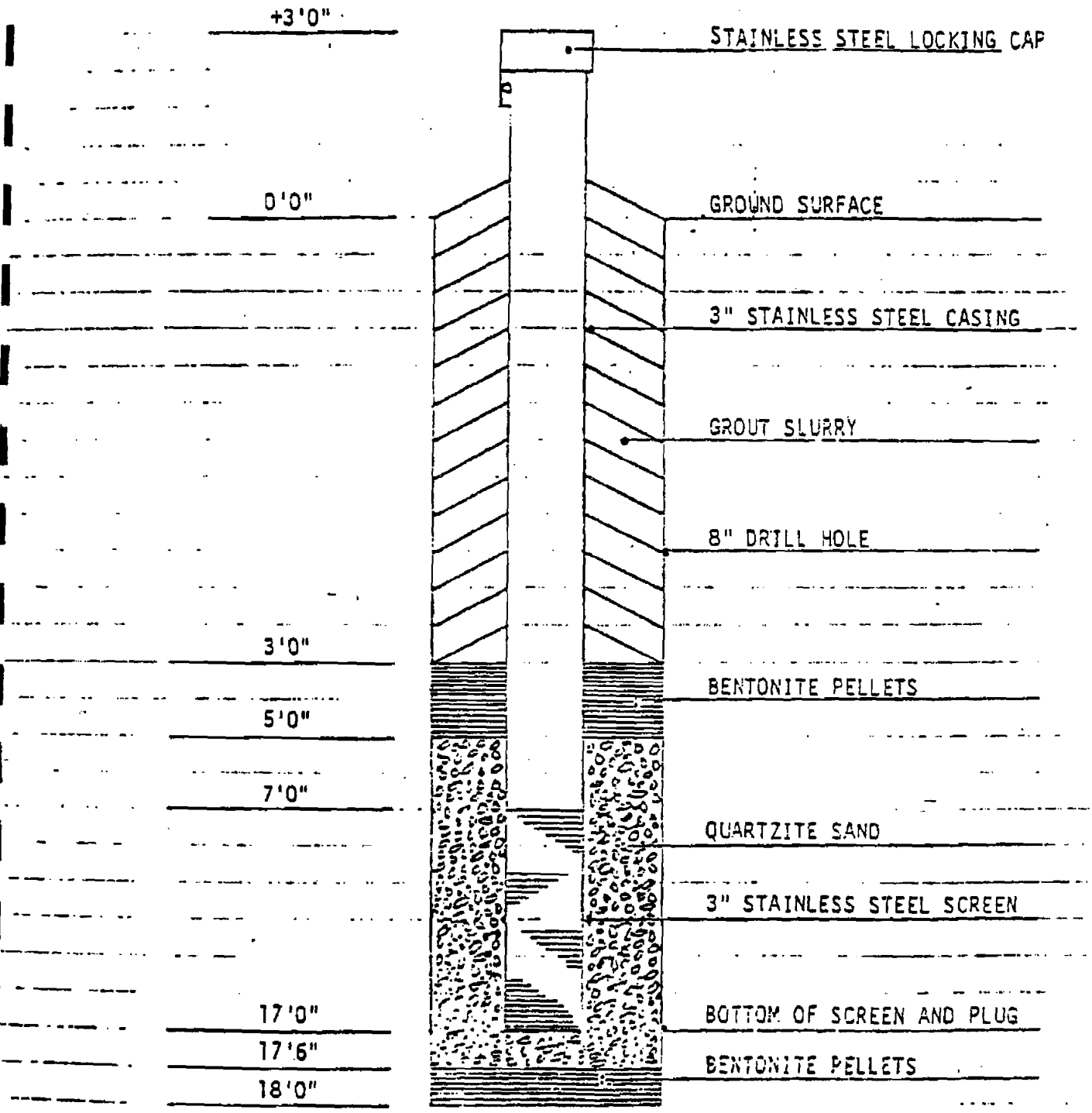
Job: East Side, City of Oswego, N.Y., [illegible]
Installation Date: 10/30/84
Sheet 5 of 5
Not to scale



ROCHESTER DRILLING COMPANY, INC.
45 Stee: Stree:
ROCHESTER, NEW YORK 14606
(716) 458-0821

Job: East Side, City of Oswego, N.Y., [illegible]
Installation Date: 10/17/84
Sheet 2 of 2
Not to scale

OS-2



ROCHESTER DRILLING COMPANY, INC.
45 Stee Street
ROCHESTER NEW YORK 14606
(716) 456-0821

Job: East Side, City of Oswego, N.Y., 2752
Installation Date: 10/17/82
Sheet 2 of 2
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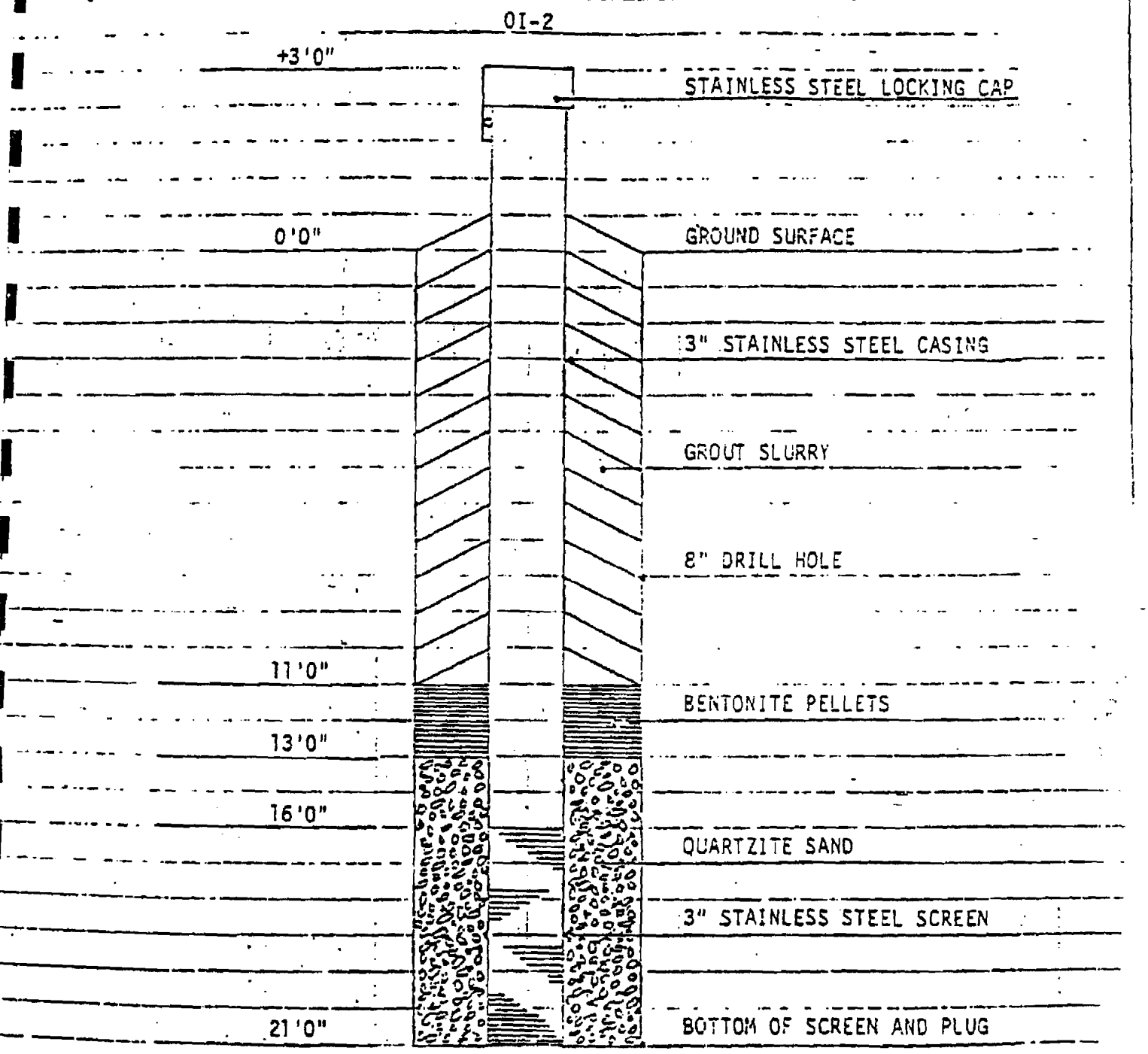
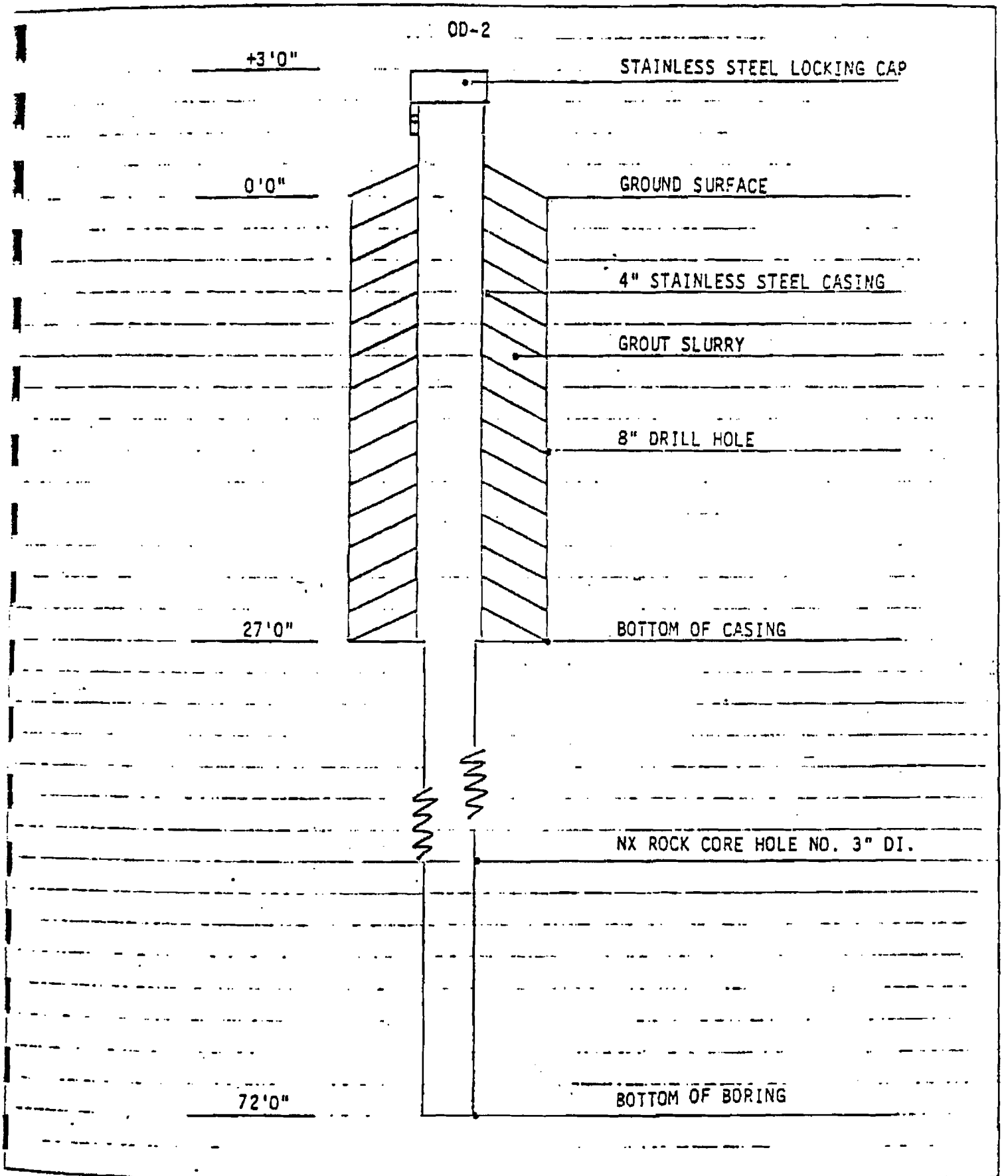


ROCHESTER DRILLING COMPANY, INC.
45 Steel Street
ROCHESTER, NEW YORK 14606
(716) 458-0821

Job: East Side, City of Oswego, N.Y., 2[illegible]
Installation Date: 10/31/84
Sheet 4 of 4
Not to scale



ROCHESTER DRILLING COMPANY, INC.
45 Steel Street
ROCHESTER, NEW YORK 14605
(716) 458-0821

Job: East Side, City of Oswego, N.Y., 2781
Installation Date: 10/24/84
Sheet 2 of 2
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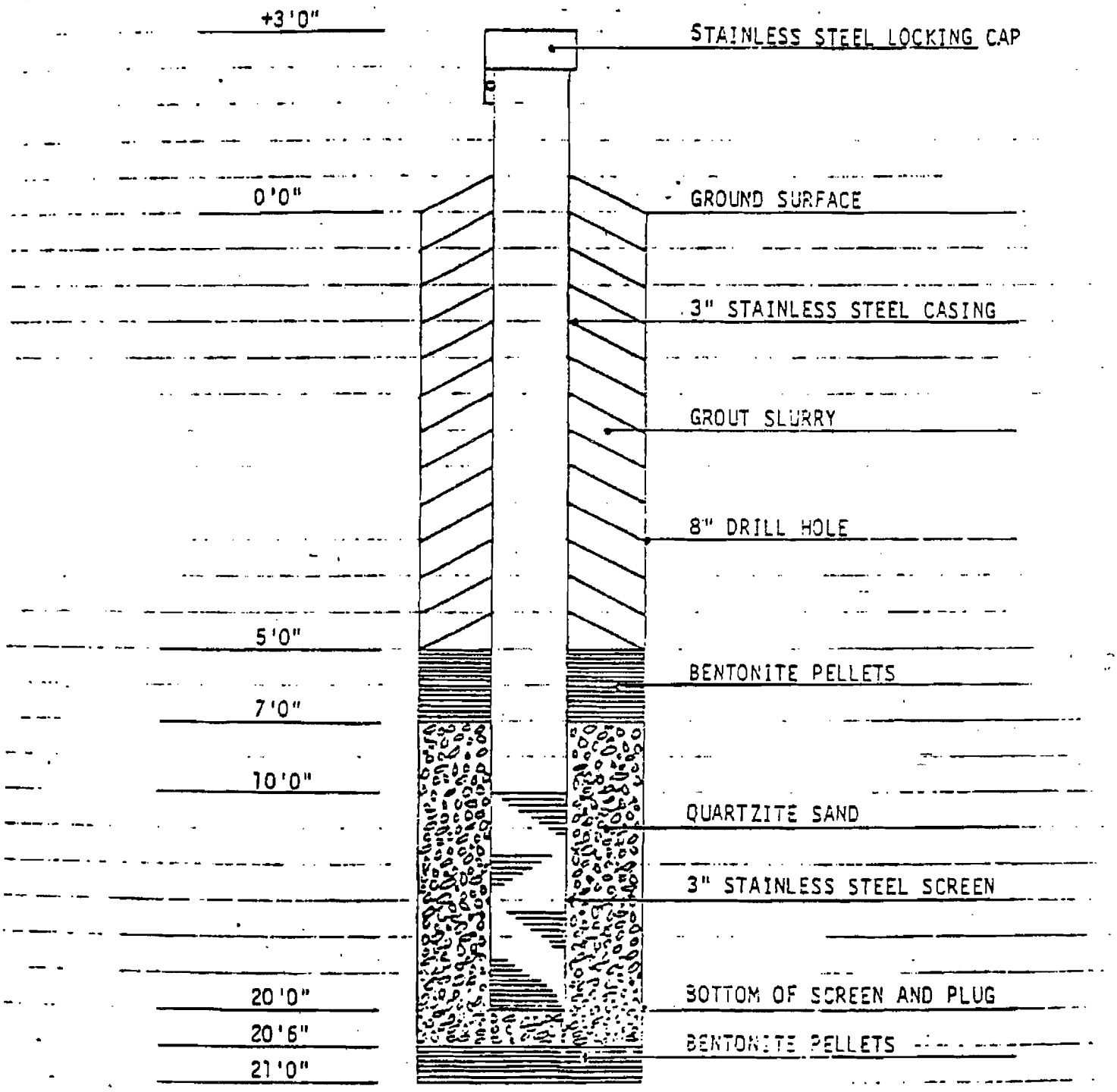
OS-3



DMPANY, INC.
Y 14603
1

Job: East Side, City of Oswego, N.Y., 2752
Installation Date: 10/30/84
Sheet 5 of 5
Not to scale