MONITORING REPORT
(April 2000 Sampling Event)

For

The Vatrano Road Site
Albany, New York

(New York State Department of Environmental Conservation)
Inactive Hazardous Waste Site Number 401036

May 2000

Prepared For:

Dawn Varacchi

The General Electric Company
2 Mount Royal Avenue
Suite 200
Marlboro, MA 01752

Prepared By:

Clough, Harbour & Associates LLP
III Winners Circle
Albany, New York 12205
(518) 453-4500

CHA Project # 7899.07.00

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1.0 INTRODUCTION

This is the last Semi-Annual Monitoring Report for the former General Electric Vatrano Road Service Center prepared by Clough, Harbour, & Associates LLP (CHA), Albany, New York. In keeping with the reporting requirements outlined in the December 1998 *Operations, Maintenance and Monitoring Plan,* sampling will be accomplished on an **annual** basis for the next three years. After the three annual sampling events, a review of the data collected since the remediation took place will be conducted to determine what if any further actions are necessary. This plan was approved by the New York Department of Environmental Conservation (NYSDEC) in a letter dated February 1, 1999.

The location of the subject site is illustrated by Figure 1. A site plan, which illustrates the portion of the property that was remediated in the fall of 1997 including the groundwater well monitoring network, is shown on Figure 2.

The purpose of this report is to describe the laboratory results for the groundwater samples collected from the site's groundwater monitoring wells.

Copies of this report are forwarded to the following:

Mr. Gerald J. Rider
Operation & Maintenance Section
Division of Environmental Remediation
New York State Department of Environmental Conservation
50 Wolf Road, Room 260A
Albany, New York 12233-7010

and

Mr. Eric Hamilton
RHWRE
NYS Department of Environmental Conservation-Region 4
1150 N. Wescott Road
Schenectady, New York 12306

and

Dawn Varacchi
General Electric, EHS
2 Mount Royal Avenue
Suite 200
Marlboro, MA 01752

2.0 SITE DESCRIPTION

As illustrated by Figures 1 and 2, the subject site is located on Vatrano Road in the City of Albany, New York, just east of Central Avenue near the Town of Colonie border. A series of railroad tracks owned and operated by Consolidated Rail forms the southern boundary of the site, with Interstate 90 located further to the south. The site consists of a vacant lot within the Vatrano Commercial Park, and is less than two acres in size. During the spring of 1998, a chain link fence was placed near the rear of the site. The area in front of this fence was paved with asphalt and is currently used as a parking lot. The surrounding area is occupied by commercial and light industrial facilities, with the nearest residential properties located immediately to the north of the Vatrano Road Commercial Park.

2.1 HISTORY

From 1956 through 1981, the General Electric Company leased what is now known as 14 Vatrano Road, the structure immediately to the west of the subject site. This facility was used as an apparatus repair shop by General Electric, where electric motors and transformers containing polychlorinated biphenyls (PCBs) were serviced.

The results of a series of preliminary investigations indicated that the subject site's soils were contaminated with PCBs. As a result, the NYSDEC identified the property as an inactive hazardous waste disposal site that constituted a significant threat to the environment. In 1990, the NYSDEC and General Electric entered into an order on consent, which required General Electric to conduct a Remedial Investigation/Feasibility Study (RI/FS) of the site. This study identified the nature and extent of the contamination on the property, and identified and evaluated remedial alternatives that General Electric could use to meet the goal of the remedial program. The objective of the remedial program was to restore the site to predisposal conditions, to the extent feasible, and authorized by law, while eliminating or mitigating all significant threats to public health and the environment.

In early 1997 the property owner asked General Electric to expedite the remediation of the site. General Electric reevaluated the stabilization/solidification remedy and the contingent remedy (the excavation and off site disposal of contaminated soils) and found that remediation could be completed in 1997 if the contingent remedy (excavation with off-site disposal) was chosen. Since both the selected remedy and the contingent remedy would achieve the cited remedial objective, the NYSDEC approved the implementation of the contingent remedy.

From October through December of 1997, the site was remediated by Four Seasons Environmental under the supervision of Clough, Harbour and Associates, LLP (CHA). A full description of the remediation can be found in the December 1998, *Remediation Engineering Certification Report* prepared by CHA.

2.2 REGIONAL GEOLOGY & HYDROGEOLOGY

The geology of the region consists of Ordovician age bedrock overlain by unconsolidated glacial till and outwash deposits and/or glacial lake deposits. The Ordovician bedrock is comprised predominantly of dark-gray to black argillaceous shales with occasional layers of limestone and localized chert.

Overlying the bedrock are glacial tills, glacial outwash deposits, and lacustrine (lake) deposits. The tills are comprised of poorly sorted fine to coarse grain sized materials and are generally found in lateral moraines which were deposited by advancing glaciers along the sides of the valleys. The outwash deposits are clean, well sorted sands and gravels found generally throughout the valley floor, having been deposited by streams originating from the melting glaciers during glacier retreats. The lacustrine deposits are comprised of silts and clays deposited in lakes formed during the temporary halts in advancements or retreats of the glaciers and are locally known as the Lake Albany Deposits. The glacial deposits are reportedly up to three hundred and fifty feet thick in some areas. All of the glacial deposits are discontinuous laterally and vary in thickness throughout, thereby producing a complex geologic and hydrogeologic setting.

The regional hydrogeologic feature controlling this area is the Hudson River, which is approximately four miles east of the site. Therefore, groundwater flow in the region is thought to be southeastward, toward the Hudson River.

2.3 SITE SOILS & HYDROGEOLOGY

Borings advanced on site encountered two to ten feet of ash and cinder fill over natural soil. The fill contained wood, brick, cinder blocks, asphalt and metal debris in sand, silt, cinders and ash. Natural soil underlying the fill and debris consists of approximately ten feet of silty sand, with 30 feet of clayey silt below the silty sand. Depth to bedrock is unknown.

The Patroon Creek flows easterly and passes the site approximately 200 feet to the south. This feature exerts local hydrologic control over the site's groundwater flow direction, with groundwater flowing to the south toward the Patroon Creek.

The New York State Bedrock Geologic Map shows the site is underlain with the Ordovician Normanskill Formation which has a relatively low permeability resulting in significantly lower water production rates than those associated with the glacial deposits. Permeability within the bedrock is directly related to the extent of fracturing and joints within the rock. Moderate levels of groundwater production may occur in portions of the bedrock where jointing and fracturing are significant. Random beds of limestone within the bedrock have been known to yield significant quantities of water. The extent of bedrock joints and fracturing beneath the Vatrano Road site has not been determined.

2.4 MONITORING WELL NETWORK

There are nine groundwater-monitoring wells associated with the Vatrano Road site groundwater monitoring network. Wells MW-6, 7 and 8 are located off site just to the north of Patroon Creek. The remaining wells (MW- 1,2,3,4,5 & 9) are located on the site. During the remediation of the site conducted in October, November, and December of 1997, the six on site groundwater monitoring wells (MW-1 through MW-5 and MW-9) were removed and replaced with six new wells. The current location of the wells are illustrated by Figure 2. The new wells were installed in similar locations and to similar depths as the original wells, however, some changes were made based on contamination discovered during the remediation. Well data and groundwater elevations from the last four monitoring events (April 1998, October 1998, April 1999 and October 1999) are shown in Table 1. Appendix A contains copies of monitoring well diagrams for all nine of the groundwater monitoring wells in the monitoring network.

2.5 SITE GROUNDWATER FLOW AND AQUIFER CHARACTERISTICS

Based on the latest water level measurements, groundwater flow is determined to be to the south towards Patroon Creek. The hydraulic gradient across the site is calculated at approximately 0.010 feet per foot. The gradient steepens to 0.024 feet per foot at the southern end of the site reflecting the influence of Patroon Creek and the local topography. This data indicates that the shallow overburden aquifer discharges to Patroon Creek. Figure 3 shows the groundwater contours based on the water levels measured on April 5, 2000. The boring logs for the wells included as Appendix A indicate that the aquifer in the unconsolidated silty sands and clayey silts is unconfined.

2.6 PREREMEDIATION GROUNDWATER SAMPLING

Two partial rounds of groundwater sampling were conducted by CHA during the summer of 1997 prior to the start of remediation. During a July 8th 1997 sampling event, groundwater-monitoring wells MW-2, MW-3 and MW-9 were sampled, previous investigations indicated the presence of tetrachloroethene in this area. The wells were analyzed for purgeable halocarbons by EPA Method 601, as well as for Polychlorinated Biphenyls (PCB's) by EPA Method 8080.

On July 10 and 11, 1997 groundwater samples were collected from monitoring wells MW-2, MW-7, MW-8 and MW-9. In addition, surface water samples from Patroon Creek were collected upstream and downstream of the site (Sample Numbers SW-1 and SW-2, respectively). The samples were analyzed for PCB's via EPA method 8080, volatile organics via EPA Method 624, and semi-volatile organics via EPA method 625. The PCB analysis performed on the samples were completed on both unfiltered and filtered duplicate samples (0.45 micron glass) to determine if PCB's were present in the dissolved state, or if they were associated with the sediment in the sample. The results of the filtered versus unfiltered data clearly showed that the PCB were not dissolved in the groundwater. The only organic compound detected during this event was tetrachloroethene at 20 ppb in the sample from well MW-2. Table 2 summarizes the results of all groundwater sampling rounds.

2.7 POST REMEDIATION GROUNDWATER QUALITY CHARACTERIZATION

In April of 1998, a qualified Clough Harbour Scientist sampled the six on-site and three off-site wells for the purpose of establishing baseline post remediation groundwater quality. The samples from this post remediation sampling were analyzed for the U.S. EPA Target Compound List of chemicals including total cyanide. Again, Table 2 includes the summary of results for this sampling event. The results of this baseline post remediation sampling event are discussed in the December, 1998 *Operations, Maintenance, and Monitoring Plan.*

3.0 APRIL 2000 SAMPLING EVENT

On April 5 and 6, 2000 a qualified CHA scientist measured groundwater levels and collected groundwater samples from all nine groundwater monitoring wells. The procedures used are described below.

3.1 CURRENT SITE CONDITIONS

Prior to collecting groundwater samples, an overall site inspection was completed. Access to monitoring wells MW-5, MW-4, MW-3, MW-2 and MW-9 is gained through a gate located at the extreme eastern end of the Vatrano Road Complex of buildings. The gravel road to this area has become cluttered with some wooden debris that appears to be from the adjacent railroad.

The parking area between Buildings 14 and 16 is paved with asphalt. There is also a six foot high chain link fence that runs from the southeast corner of Building 14 to the southwest corner of Building 16. In general the fence is in good condition. All on site monitoring wells were in good shape and locked. It was also noted that one of the four metal bollards protecting MW-1 is bent slightly. Monitoring well MW-1, however, was not affected by this condition.

Photographs 1-4 show the site conditions as of April 2000.

3.2 PROCEDURES

Prior to sampling, the water level of each well was measured to the nearest one hundredth of a foot using an electronic water level meter. This data was used to develop a groundwater contour map (Figure 3).

Dedicated plastic Waterra tubing and footvalves are installed in all nine wells. This tubing prevents cross contamination. A portable Waterra pump powered by a generator was used to purge and sample each well. Purge water from the wells on site was placed in a properly labeled drum and removed and properly disposed of by Clean Harbors Environmental Services, Inc. of Glenmont, New York.

Approximately three well volumes of water were purged from each well prior to sampling. Field parameters such as turbidity, temperature, pH and Eh were measured and recorded on the sampling sheets (Appendix C).

For QA/QC purposes, a blind duplicate sample (MW-10), and trip blanks (one for each sampling day) were submitted for analysis.

The samples were labeled, stored in a cooler with ice to maintain proper temperature, and were delivered to Adirondack Environmental Services of Albany, NY with the appropriate chain of custody documents (Appendix D).

3.3 LABORATORY ANALYSIS AND QUALTITY CONTROL

Each groundwater sample was analyzed for the presence of volatile organics via EPA Method 625, PCBs via EPA Method 8080, lead via EPA Method 234.2, and Mercury via EPA Method 245.1.

Analytical procedures were performed by Adirondack Laboratories of Albany, NY which holds current NYSDEC certifications to perform the required analyses as per the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP). All analytical QA/QC and laboratory procedures were consistent with the requirements contained in EPA SW-846.

3.4 LABORATORY ANALYSIS DISCUSSION

Table 2 summarizes the important chemical concentrations found in the groundwater including the latest analytical results. The complete data package from the April 2000 sampling event is found in Appendix B. The chain of custody is found in Appendix D.

Data shown on Table 2 that is shaded indicates a concentration greater than the New York State Groundwater Standard(6NYCRR 703). Of the nine monitoring wells, only in wells MW-2 and MW-5, were concentrations of PCB's found. The average concentration of PCBs after the remediation (April 98-April 00) in MW-2 (0.71 ug/l) is significantly less than the average before the remediation (August 91-July 97) (4.2 ug/l). MW-5 had no preremediation concentrations of PCBs and an initial spike of 17 ug/l in April of 1998 has decreased by over 29 times to a concentration of 0.57 ug/l in April 2000.

Lead and mercury concentrations were analyzed during the last four sampling rounds. Previously, filtered metals samples were sent to the lab and the results indicated that the metals were bound to the soil particles and not dissolved in the groundwater. As per the Operations and Maintenance Plan for Vatrano Road, filtered mercury and lead groundwater samples were taken whenever the turbidity of the groundwater was greater than 50 NTUs. Mercury was not detected in any monitoring wells this quarter.

Total lead was detected in samples from three of the monitoring wells, however, all concentrations are consistent with historical levels. The concentration in MW-4 decreased to its lowest historical level while the total lead concentrations in MW-6 and MW-7 increased. All filtered groundwater samples contained dissolved lead concentrations below the groundwater standards indicating the lead is bound in with the sediment found in these samples.

All of the VOCs concentrations above groundwater standards are shaded in Table 2. As seen in Table 2, MW-2 remains the monitoring well most impacted by VOCs. The April 2000 concentrations of VOCs in MW-2 are in the range of the previous post remediation sampling events. The last four sampling events have indicated a decreasing trend in the concentrations of these VOCs however. The VOCs concentrations in MW-4 have remained relatively stable with time, however this sampling events concentration was the lowest level detected to date. The 1,2 dichloroethene

concentrations found in MW-7 have remained relatively constant over the last four sampling events.

4.0 SUMMARY

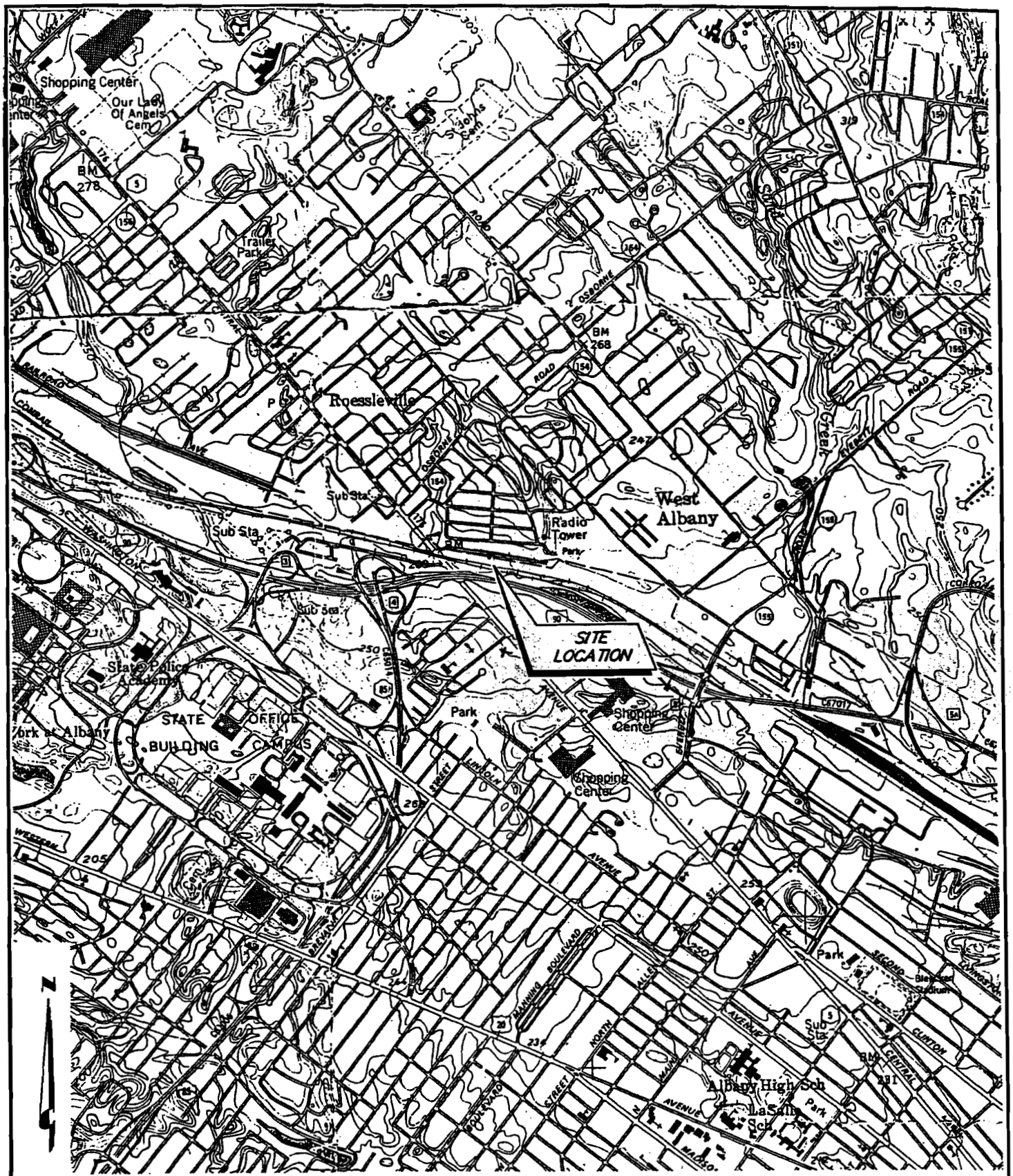
The laboratory results of the groundwater samples taken from the monitoring well network associated with the site indicate that PCB's were detected in only two (MW-2 and MW-5) of the nine monitoring wells. The concentration of PCB's in wells MW-2 and MW-5 continue to show a decreasing trend since the April 1999 sampling event.

Total mercury was not found in any of the nine monitoring wells and dissolved lead concentrations were below the groundwater standard for lead.

The VOCs in the groundwater in MW-2 show a decreasing trend over the last four sampling events while VOC's in other impacted wells have remained relatively stable.

The site will continue to be monitored with the next sampling event scheduled for April 2001.

FIGURES



SOURCE: N.Y.S.D.O.T. 7.5' Topographic
QUADRANGLE: ALBANY, NY

SCALE: 1" = 2000'

CHA
CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
III WINNERS CIRCLE ALBANY, NEW YORK, 12205

PROJ. NO.: 6429.07.30 | DATE: JANUARY, 1998

FIGURE 1

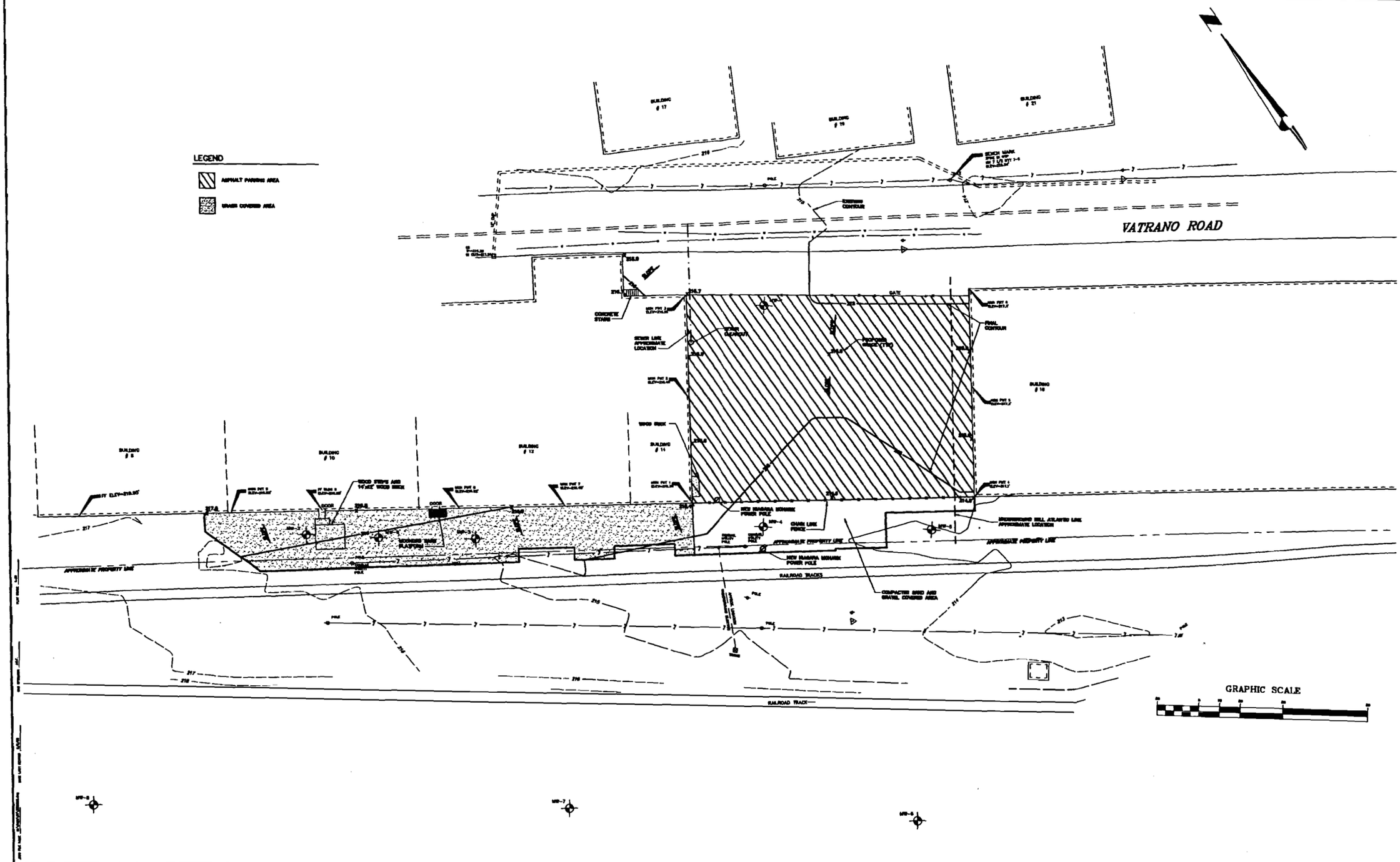
SITE LOCATION MAP

THE VATRANO ROAD SITE
ALBANY, NEW YORK

LEGEND

ASPHALT PAVING AREA

GRASS COVERED AREA



GRAPHIC SCALE

Revisions:	Drawn By:	App'd. By:	Date:

Designed By:	Date:
S.P.	5/99
Drawn By:	Date:
J.D.F.	5/99
Checked By:	Date:
C.H.F.	5/99

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REMEDIATION OF THE VATRANO ROAD SITE

NYSDEC ID #401036
ALBANY, NEW YORK

SEMI-ANNUAL MONITORING REPORT

POST REMEDIATION CONDITIONS

SCALE: AS NOTED

DATE: MAY, 1999

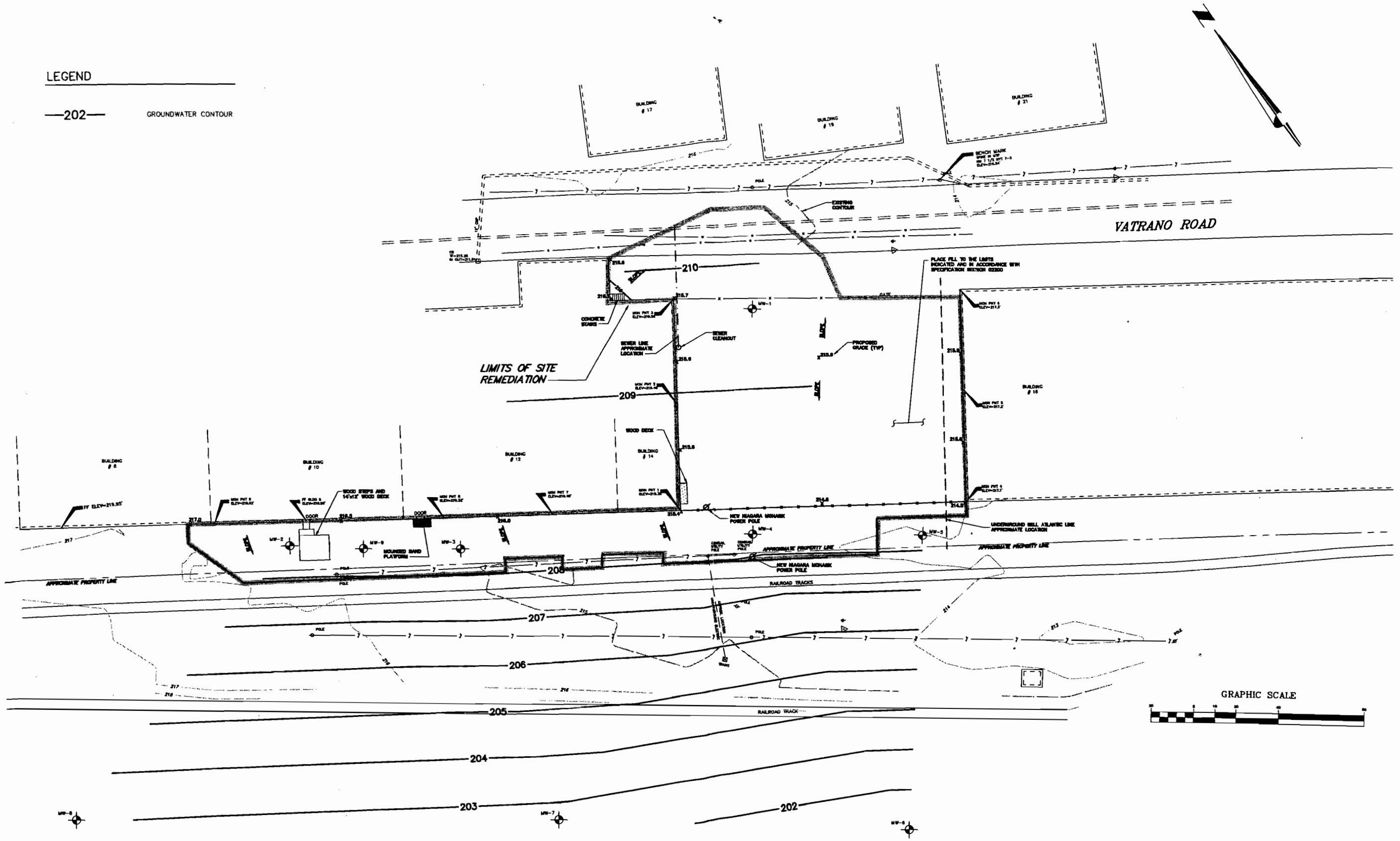
Drawing No.

FIGURE 2

SHEET 1 OF 1

LEGEND

—202— GROUNDWATER CONTOUR



Revisions:	Drawn By:	App'd. By:	Date:

Designed By:	Date:
S.P.	4/00
Drawn By:	Date:
J.D.F.	4/00
Checked By:	Date:
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CHA Project No. 7899.07.00

REMEDIATION OF THE VATRANO ROAD SITE

NYSDEC ID #401036
ALBANY, NEW YORK

MONITORING REPORT

APRIL 5, 2000 WATER TABLE GROUNDWATER CONTOUR MAP

SCALE: AS NOTED DATE: APRIL, 2000

Drawing No.

FIGURE 3

SHEET 1 OF 1

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TABLE 1

GROUNDWATER MONITORING WELL DATA & WATER ELEVATIONS

For the Vatrano Road Site, Albany, NY

WELL #	Ground Elevation (ft MSL)	Elevation of Screened Interval (ft MSL)	PVC Stickup from ground (ft)	4/13/98 Water Elev. (ft MSL)	10/28/98 Water Elev. (ft MSL)	4/7/99 Water Elev. (ft MSL)	10/25/99 Water Elev. (ft MSL)	4/5/00 Water Elev. (ft MSL)
MW-1	215.23	200.23-210.23	2.42	210.21	209.17	210.15	210.00	209.69
MW-2	216.20	198.70-208.70	2.65	207.91	206.87	207.98	208.10	208.69
MW-3	215.53	198.03-208.03	2.24	207.85	206.57	207.93	208.00	208.59
MW-4	214.58	198.08-208.08	2.46	207.79	206.82	207.86	207.93	208.53
MW-5	214.54	197.54-207.54	2.46	207.64	206.78	207.72	207.79	208.39
MW-6	201.86	186.86-196.86	2.27	200.22	198.43	200.77	200.38	201.01
MW-7	204.03	189.03-199.03	1.83	201.56	200.86	201.14	202.15	202.63
MW-8	206.29	191.29-201.29	1.80	202.61	201.89	202.63	202.69	203.05
MW-9	215.95	164.95-169.95	1.33	205.08	204.48	205.14	205.08	205.44

TABLE 2
GROUNDWATER ANALYSIS SUMMARY TABLE
For the Vatrano Road Site, Albany, NY

Parameter (ug/l) [*]	WELL NUMBER									
Date Sampled	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10**
Trichloroethene [5]										
Aug-91	ND	24	ND	ND	ND	ND	ND	ND	ND	ND
Jul-97	NA	ND	ND	NA	NA	NA	ND	ND	ND	ND
Apr-98	ND	23	ND	ND	ND	ND	ND	ND	ND	ND
Oct-98	ND	89	ND	ND	ND	ND	3J	ND	ND	ND
Apr-99	ND	47	ND	ND	ND	ND	ND	ND	ND	ND
Oct-99	ND	36	ND	ND	ND	ND	2J	ND	ND	ND
Apr-00	ND	22	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene [5]										
Aug-91	ND	56	ND	ND	ND	ND	ND	ND	ND	ND
Jul-97	NA	20	ND	NA	NA	NA	ND	ND	ND	ND
Apr-98	ND	270	ND	ND	ND	ND	ND	ND	ND	ND
Oct-98	ND	460	ND	ND	ND	ND	3J	ND	ND	ND
Apr-99	ND	160	ND	ND	ND	ND	ND	ND	ND	ND
Oct-99	ND	150	ND	ND	ND	ND	ND	ND	ND	ND
Apr-00	ND	120	ND	ND	ND	ND	ND	ND	ND	ND
Total PCB's [0.09]										
Aug-91	ND	5.18	1.2	ND	ND	ND	ND	ND	ND	ND
Jul-97	NA	3.19	0.68	NA	NA	NA	ND	ND	ND	ND
Apr-98	ND	0.383	ND	ND	17	ND	ND	ND	ND	ND
Oct-98	ND	0.3J	ND	ND	1.2	ND	ND	ND	ND	ND
Apr-99	ND	1.39	ND	ND	4.8	ND	ND	ND	ND	ND
Oct-99	ND	0.85	ND	ND	2.0	ND	ND	ND	ND	ND
Apr-00	ND	0.61	ND	ND	0.57	ND	ND	ND	ND	ND
1,2 Dichloroethene [5]										
Aug-91	ND	74	4J	7	ND	ND	2J	ND	ND	ND
Jul-97	NA	ND	ND	NA	NA	NA	ND	ND	ND	ND
Apr-98	ND	78	ND	ND	ND	ND	ND	ND	ND	ND
Oct-98	ND	350	4J	10	ND	ND	4J	ND	ND	12
Apr-99	ND	230	ND	7	ND	ND	5	ND	ND	7
Oct-99	ND	130	5	8	ND	ND	5	ND	ND	9
Apr-00	ND	73	ND	5.1	ND	ND	6	ND	ND	5.3
Chlorobenzene [5]										
Aug-91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jul-97	NA	ND	ND	NA	NA	NA	ND	ND	ND	ND
Apr-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oct-98	ND	ND	ND	4J	ND	ND	ND	ND	ND	4J
Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oct-99	ND	2J	ND	2J	ND	ND	ND	ND	ND	3J
Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Mercury [0.7]										
Aug-91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Jul-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Apr-98	0.8	ND	5.5	ND	ND	ND	ND	ND	3.7	ND
Oct-98	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND
Apr-99	ND	ND	0.33	0.28	0.20	0.32	ND	ND	0.33	ND
Oct-99	0.20	0.19B	0.16B	0.09B	0.18B	0.19B	0.17B	0.17B	0.21	0.20
Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Lead [25]										
Aug-91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Jul-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Apr-98	ND	9	566	143	12	ND	ND	ND	ND	164
Oct-98	13	17	271	794	32.5	11.5	3.8	1.3	ND	20.5
Apr-99	ND	2.7J	170	34.6J	9.6J	41J	ND	ND	16.4J	32.3J
Oct-99	ND	ND	49.2	109	8.4	23.2	ND	ND	13.9	133
Apr-00	ND	ND	ND	21	ND	30	7	ND	ND	22

[*] Groundwater Standard Guidance Value **Shaded Values Are Above The Standard**

B= Less Than Contract Detection Limits

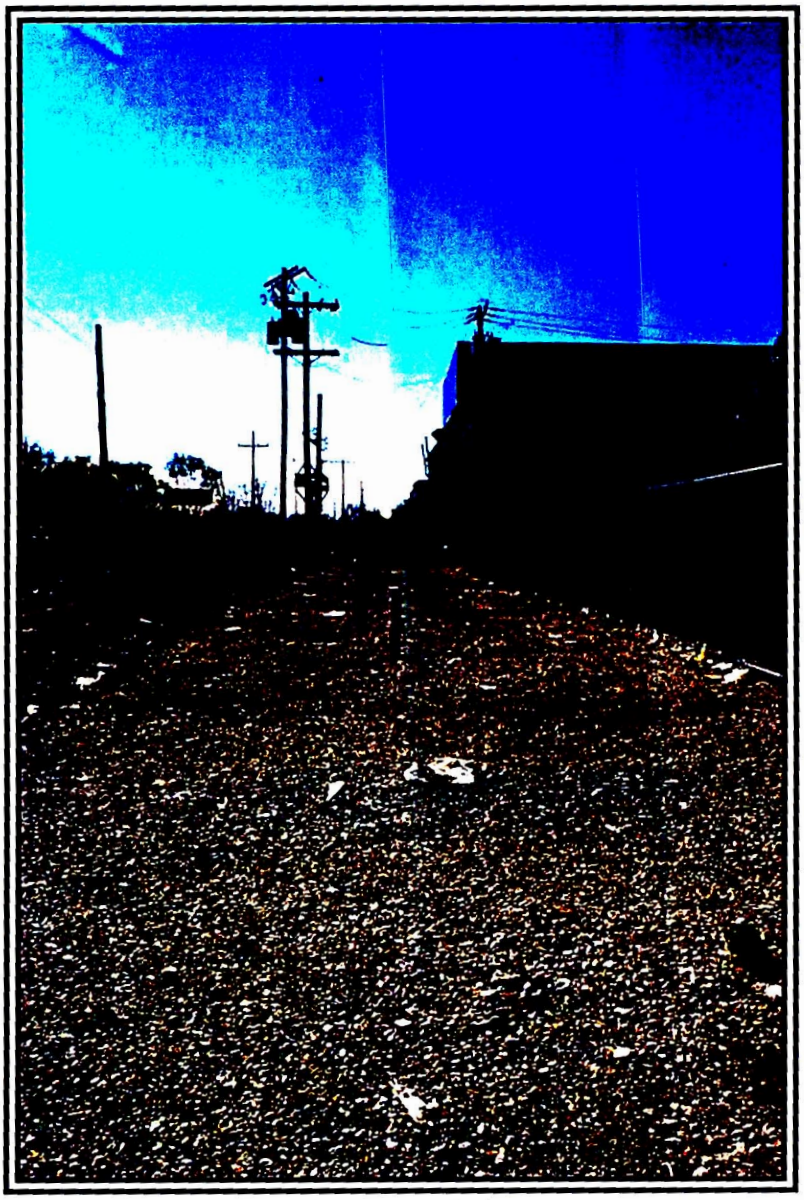
ND= Below Detection Limits **NA: Not Analyzed** **J=Semi-qualitative value, Conc. Below CRQCL**

**** MW-10 is duplicate of MW-4**

H:\7899\vattable2.xls

Photograph # 1

Looking West. MW-1 in foreground.



Photograph #2

Looking Northwest across site. Notice MW-5 in foreground.

Photograph #3

Looking Northeast. Monitoring Well MW-4 in Foreground and MW-5 to the East.

Photograph #4

Looking west at monitoring wells MW-3, MW-9 and MW-2. Picture shows post remediation grass, gutter downspouts and deck (between wells MW-9 and MW-2)

WELL CONSTRUCTION LOG

PROJECT	PROJECT NUMBER	WELL NUMBER
Vatrano Road Remediation	6429.07.30	MW-1

SITE	COORDINATES	GROUND SURFACE ELEVATION	CASING STICKUP
Vatrano Road Albany, NY	/	215.23 ft MSL ☒ Surveyed ☐ Estimated	2.42 ft

Soil Boring Cross-Reference MW-1
Town and City Albany
County and State Albany, NY

Installation Date (s) 12/19/97

Drilling Method 4.25" Hollow Stem Augers
Drilling Contractor SMT
Drilling Fluid None

Development Technique (s) / Dates
Developed well by Air Surging and Pumping on 12/22/97.

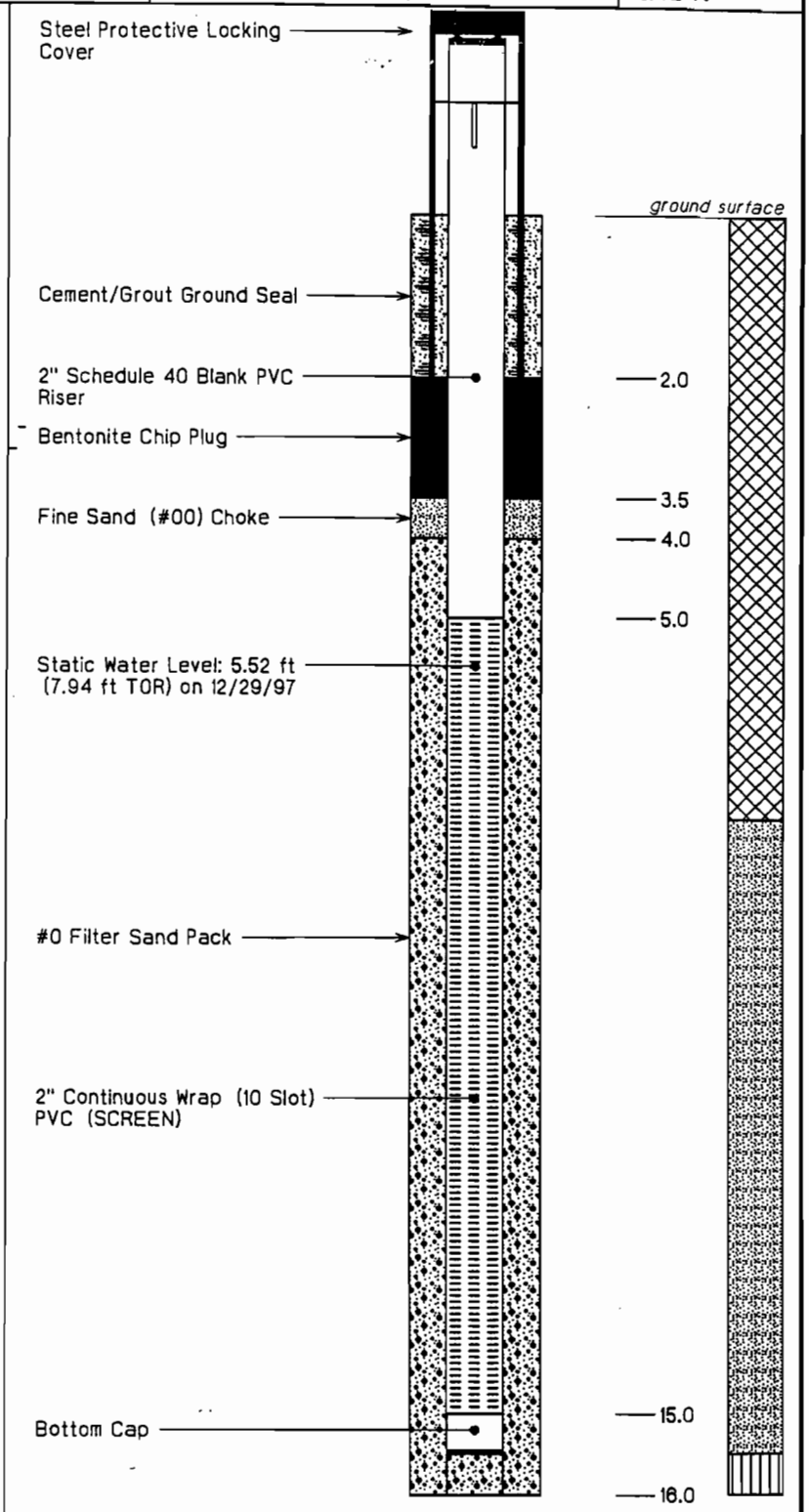
Fluid Loss During Drilling (gals) _____
Water Removed During Development (gals)
50 gal. over 2.5 hours - 12/22/97

Static Depth to Water Date 12/22/97
Static Depth to Water (feet) 8.04 ft TOR

Well Purpose PCB and Solvent Monitoring

Remarks Top 7.5 ft of soil is clean fine sand backfill. Well took several hours to clean up. Appears to be below 50 NTU's.

Prepared By S. Pidgeon
Date Prepared 1/2/98



CLOUGH HARBOUR and ASSOCIATES LLP

WELL CONSTRUCTION LOG

PROJECT	PROJECT NUMBER	WELL NUMBER
Vatrano Road Remediation	6429.07.30	MW-2

SITE	COORDINATES	GROUND SURFACE ELEVATION	CASING STICKUP
Vatrano Road Albany, NY	/	216.20 ft MSL ☒ Surveyed ☐ Estimated	2.65 ft

Soil Boring Cross-Reference MW-2
Town and City Albany
County and State Albany, NY

Installation Date (s) 12/2/97

Drilling Method 4.25" Hollow Stem Augers
Drilling Contractor SMT
Drilling Fluid None

Development Technique (s) / Dates
Developed well by Air Surging and Pumping on 12/4/97. 9.25 NTU's after 30 minutes of pumping.

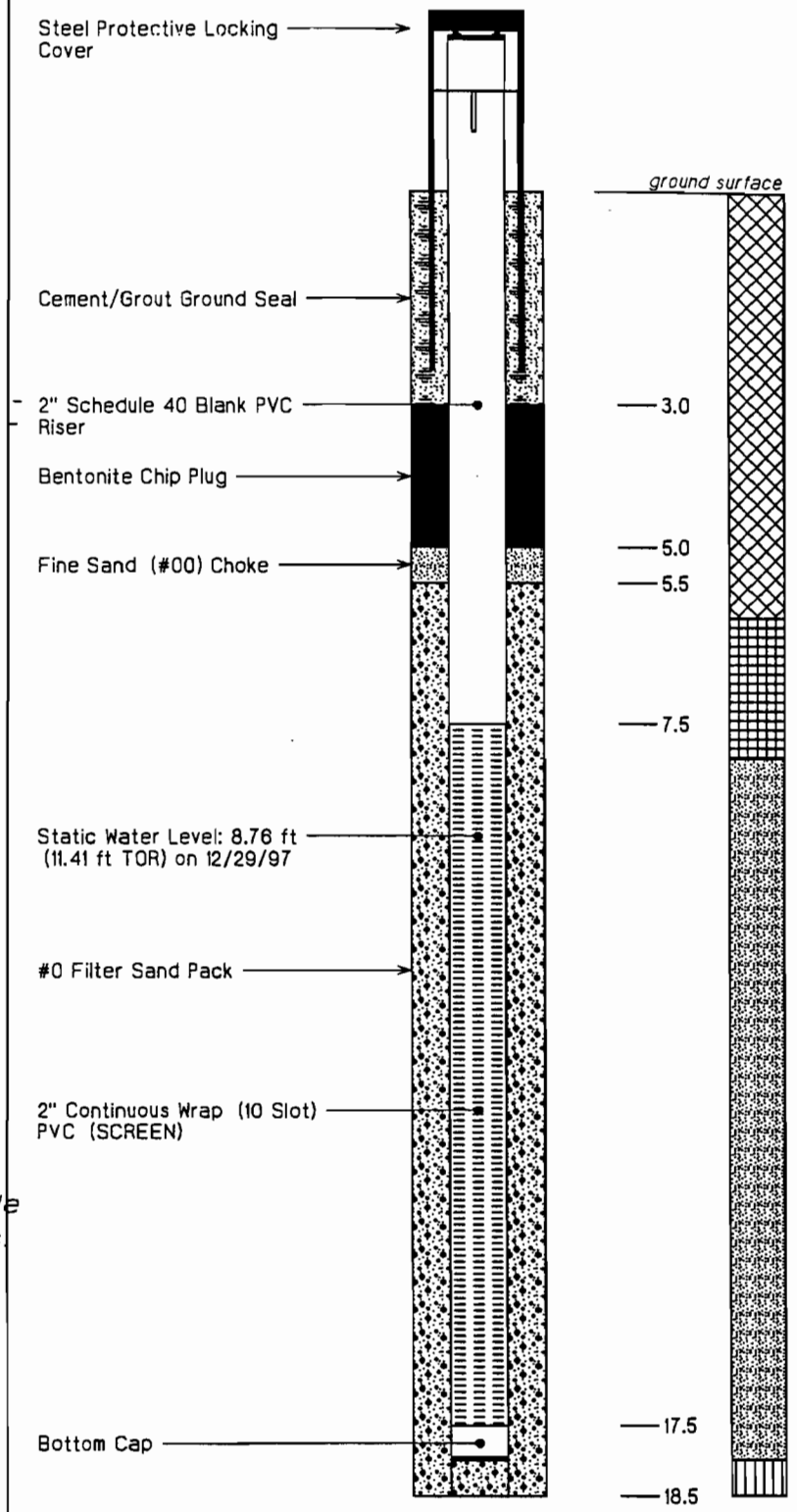
Fluid Loss During Drilling (gals)
Water Removed During Development (gals)
90 gal. over 30 min. - 12/4/97

Static Depth to Water Date 12/4/97
Static Depth to Water (feet) 10.71 ft TOR

Well Purpose PCB and Solvent Monitoring

Remarks Top 6 ft of soil is clean fine sand backfill. From 6-8 ft below grade is a black/brown sand fill with cinders. From 8-18 ft is a fine-med. grained natural sand. From 18-18.5 ft is gray clayey silt.

Prepared By S. Pidgeon
Date Prepared 1/2/98



CLOUGH HARBOUR and ASSOCIATES LLP

WELL CONSTRUCTION LOG

PROJECT	PROJECT NUMBER	WELL NUMBER
Vatrano Road Remediation	6429.07.30	MW-3

SITE	COORDINATES	GROUND SURFACE ELEVATION	CASING STICKUP
Vatrano Road Albany, NY	/	215.53 ft MSL ☐ Surveyed ☒ Estimated	2.24 ft

Soil Boring Cross-Reference MW-3
Town and City Albany
County and State Albany, NY

Installation Date (s) 12/2/97

Drilling Method 4.25" Hollow Stem Augers
Drilling Contractor SMT
Drilling Fluid None

Development Technique (s) / Dates
Developed well by Air Surging and Pumping on 12/4/97. 3.4 NTU's after 1 hour of pumping.

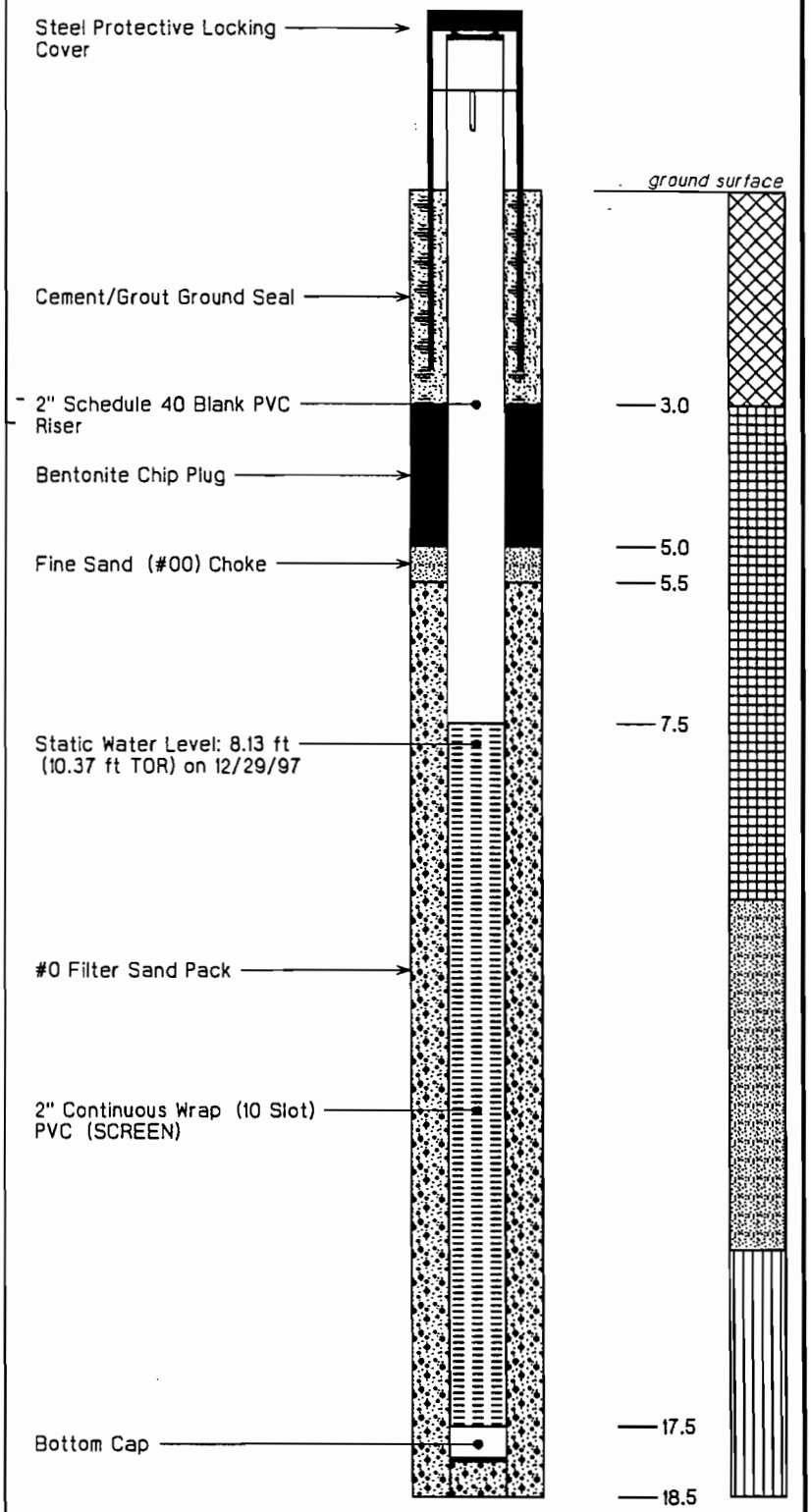
Fluid Loss During Drilling (gals) _____
Water Removed During Development (gals)
20 gal. over 1 hour. – 12/4/97

Static Depth to Water Date 12/4/97
Static Depth to Water (feet) 10.44 ft TOR

Well Purpose PCB and Solvent Monitoring

Remarks Top 3 ft of soil is clean fine sand backfill. From 3–10 ft below grade is a black/brown sand fill with cinders. From 10–15 ft is a fine–med. grained natural sand. From 15–18.5 ft is gray clayey silt.

Prepared By S. Pidgeon
Date Prepared 1/2/98



CLOUGH HARBOUR and ASSOCIATES LLP

WELL CONSTRUCTION LOG

PROJECT	PROJECT NUMBER	WELL NUMBER
Vatrano Road Remediation	6429.07.30	MW-4

SITE	COORDINATES	GROUND SURFACE ELEVATION	CASING STICKUP
Vatrano Road Albany, NY	/	214.58 ft MSL ☒ Surveyed ☐ Estimated	2.46 ft

Soil Boring Cross-Reference MW-4
Town and City Albany
County and State Albany, NY

Installation Date (s) 12/19/97

Drilling Method 4.25" Hollow Stem Augers
Drilling Contractor SMT
Drilling Fluid None

Development Technique (s) / Dates
Developed well by Air Surging and Pumping on 12/22/97. Appeared to be less than 50 NTU upon completion.

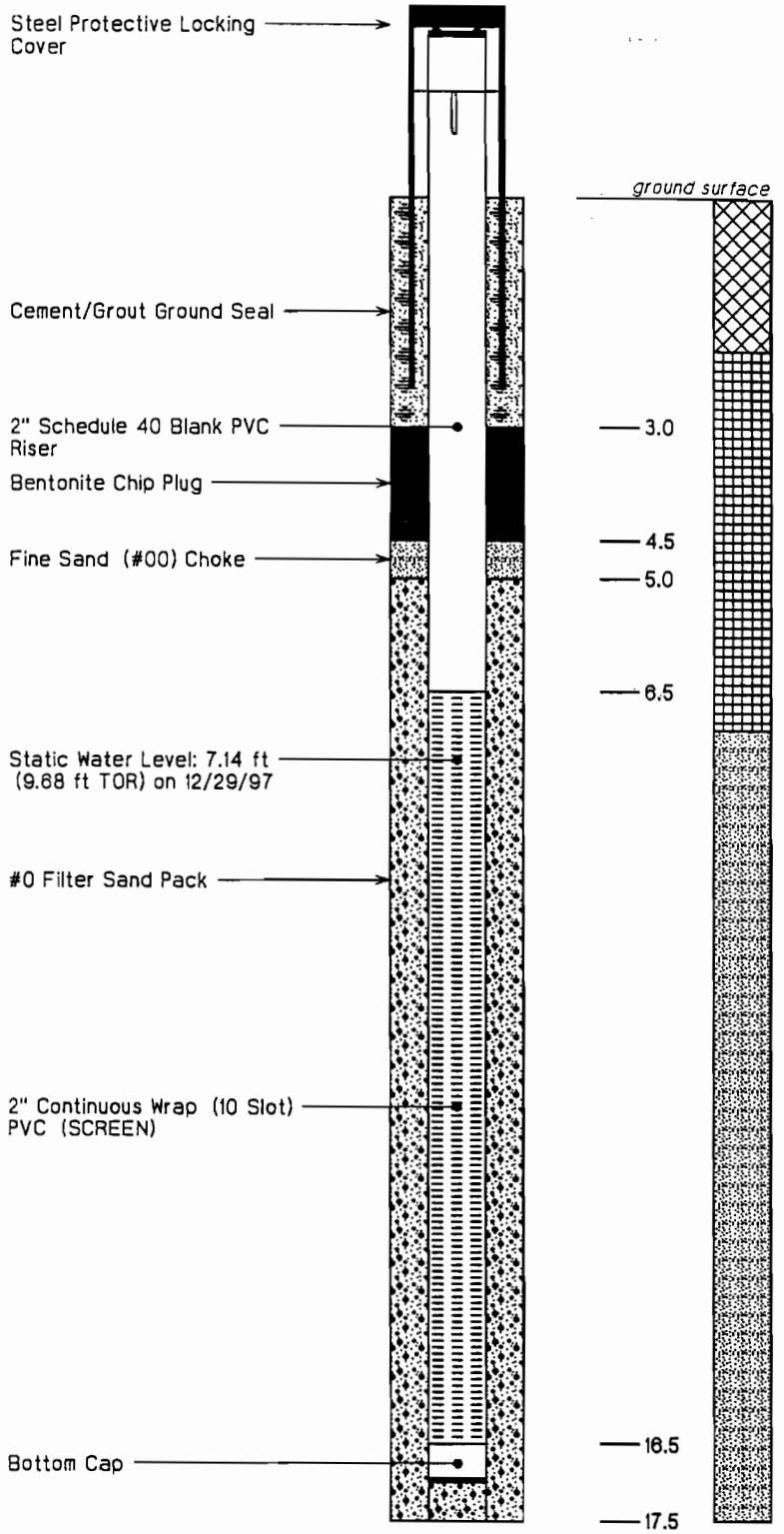
Fluid Loss During Drilling (gals) _____
Water Removed During Development (gals)
50 gal. over 2.0 hours - 12/22/97

Static Depth to Water Date 12/22/97
Static Depth to Water (feet) 9.76 ft TOR

Well Purpose PCB and Solvent Monitoring

Remarks Top 2 ft of soil is clean fine sand backfill. From 2-7 ft below grade is a black/brown sand fill with cinders. From 7-17.5 ft is a fine-med. grained natural sand.

Prepared By S. Pidgeon
Date Prepared 1/2/98



CLOUGH HARBOUR and ASSOCIATES LLP

WELL CONSTRUCTION LOG

PROJECT	PROJECT NUMBER	WELL NUMBER
Vatrano Road Remediation	6429.07.30	MW-5

SITE	COORDINATES	GROUND SURFACE ELEVATION	CASING STICKUP
Vatrano Road Albany, NY	/	214.54 ft MSL ☒ Surveyed ☐ Estimated	2.46 ft

Soil Boring Cross-Reference MW-5
Town and City Albany
County and State Albany, NY

Installation Date (s) 12/19/97

Drilling Method 4.25" Hollow Stem Augers
Drilling Contractor SMT
Drilling Fluid None

Development Technique (s) / Dates
Developed well by Air Surging and Pumping on 12/22/97.

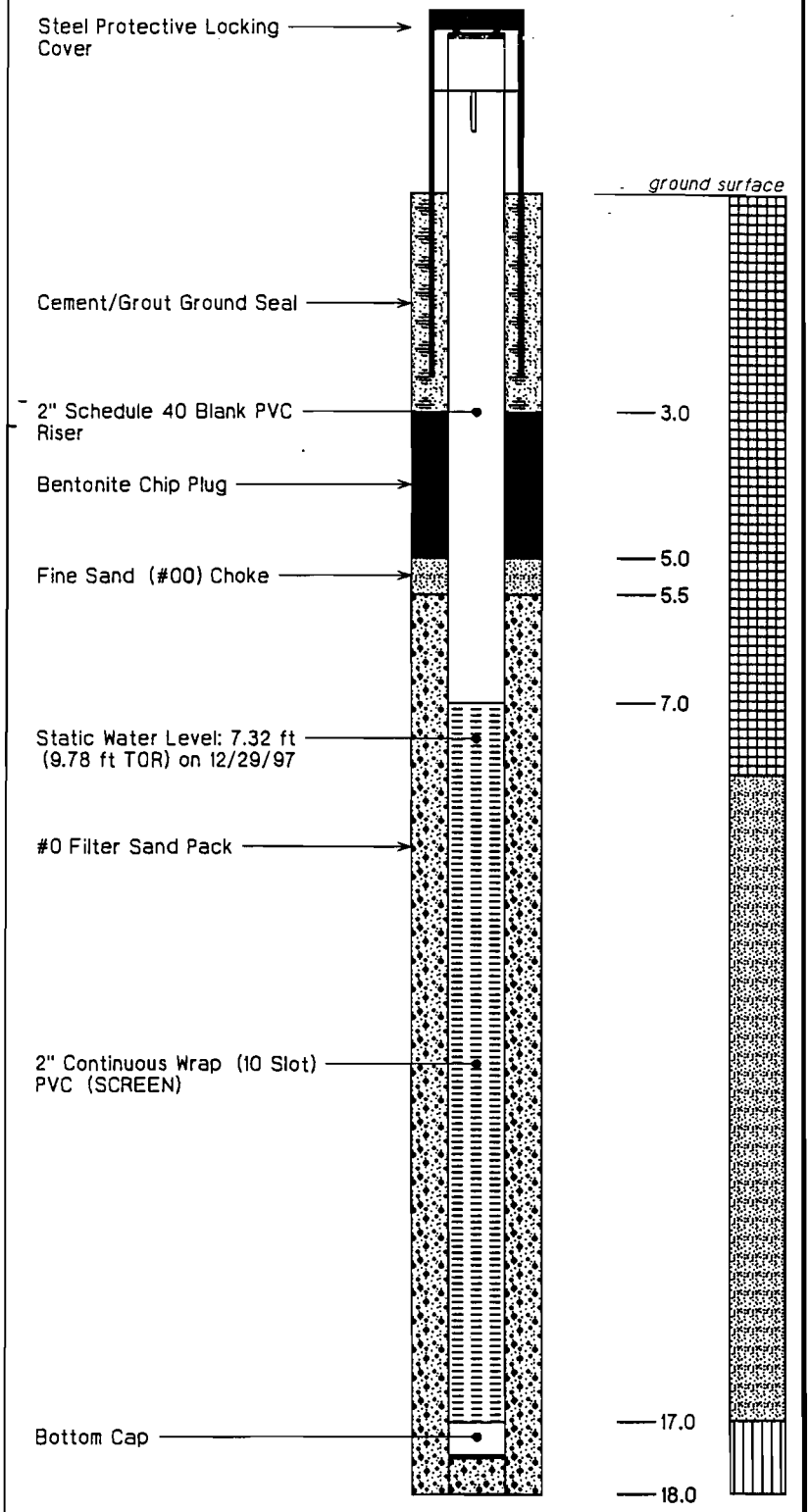
Fluid Loss During Drilling (gals) _____
Water Removed During Development (gals)
70 gal. over 2.0 hours – 12/22/97

Static Depth to Water Date 12/22/97
Static Depth to Water (feet) 9.81 ft TOR

Well Purpose PCB and Solvent Monitoring

Remarks Top 8 ft of soil is black/brown sand fill with cinders and ash. Turbidity appears below 50 NTU's after two hours of pumping.

Prepared By S. Pidgeon
Date Prepared 1/2/98



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ERM-Northeast

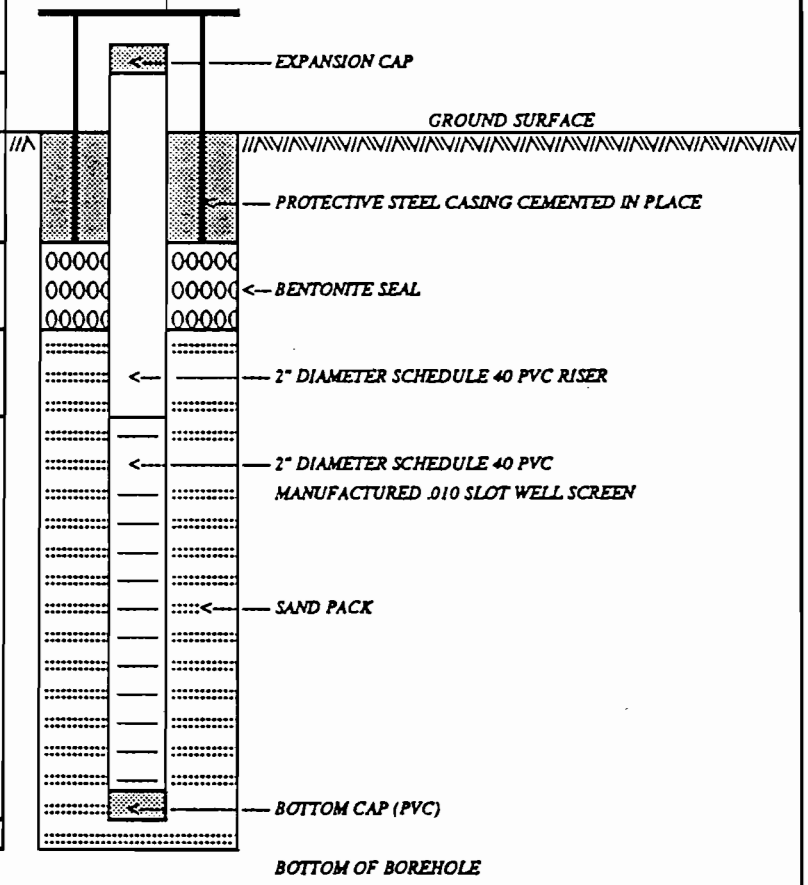
501 New Karner Road, Suite 7, Albany NY 12205 (518) 452-4291

CONSTRUCTION OF MONITORING WELL: MW-6

Project Name & Location	Project No.	Water Level(s) (ft below PVC casing)			Site Elevation Datum
GE Vatrano Road, Albany, NY	380.011				Mean Sea Level
Drilling Company	Foreman	Date	Time	Level(s)	Ground Elevation
S Borings	Leo Charbonneau Sr.	8/13/91		5.71	202.38
Surveyor					Top of Protective Steel Cap Elevation
3D Surveyors					
Date and Time of Completion	Inspector				Top of Riser Pipe Elevation
July 29, 1991 14:20	Matt Bell				204.13

GENERALIZED SOIL DESCRIPTION	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground, not to scale)
	204.13	-1.75
	202.38	0.0
		1.0
		3.0
Brown Sand & Silt		5.0
Gray-brown Silt & Clay		15.0
		17.5

CONSTRUCTION DETAILS



REMARKS

ERM-Northeast

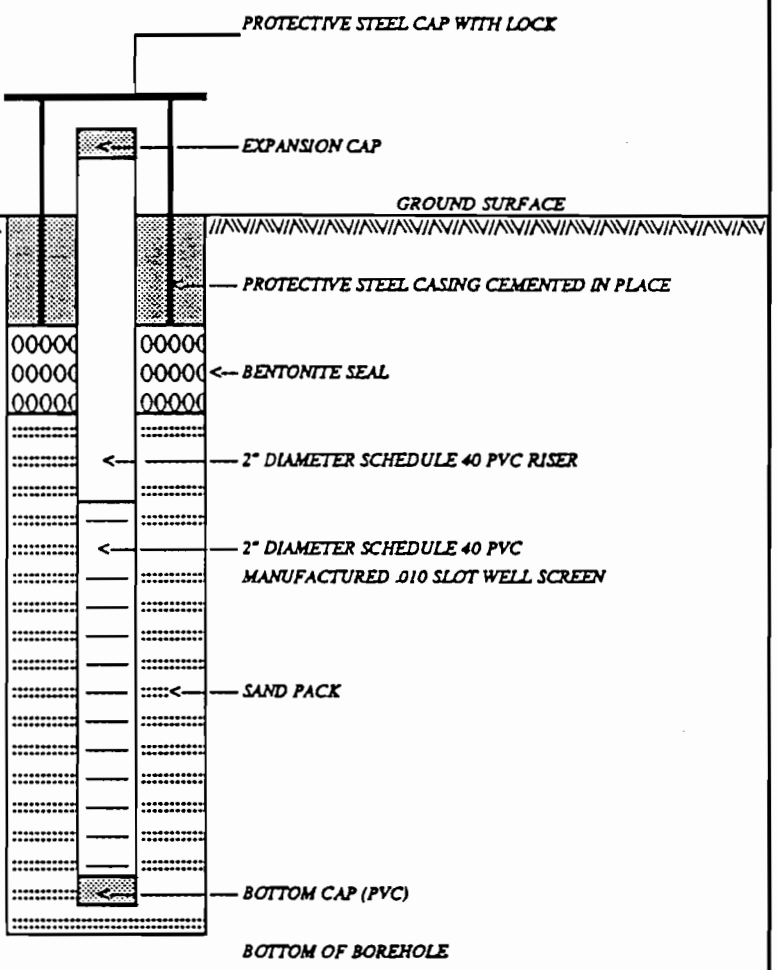
501 New Karner Road, Suite 7, Albany NY 12205 (518) 452-4291

CONSTRUCTION OF MONITORING WELL: MW-7

Project Name & Location	Project No.	Water Level(s) (ft below PVC casing)			Site Elevation Datum
GE Vatrano Road, Albany, NY	380.011				Mean Sea Level
Drilling Company	Foreman	Date	Time	Level(s)	Ground Elevation
H&S Borings	Leo Charbonneau Sr.	8/13/91		7.00	204.59
Surveyor					Top of Protective Steel Cap Elevation
ABD Surveyors					
Date and Time of Completion	Inspector				Top of Riser Pipe Elevation
July 30, 1991 11:10	Matt Bell				206.54

GENERALIZED SOIL DESCRIPTION	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground, not to scale)
	206.54	-1.95
	204.59	0.0
		1.0
Brown Sand & Silt		3.0
		5.0
Gray Clayey Silt & Sand		15.0
		17.5

CONSTRUCTION DETAILS



REMARKS

ERM-Northeast

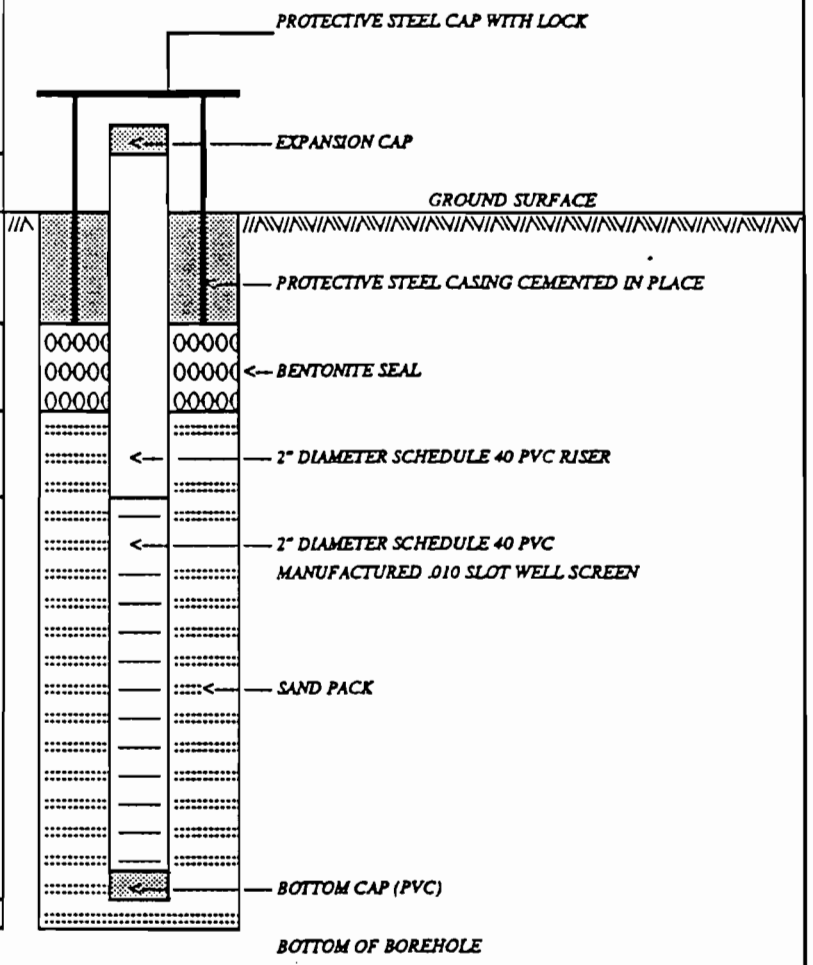
501 New Karner Road, Suite 7, Albany NY 12205 (518) 452-4291

CONSTRUCTION OF MONITORING WELL: MW-8

Project Name & Location	*Project No.*	*Water Level(s) (ft below PVC casing)*			*Site Elevation Datum*
GE Vatrano Road, Albany, NY	380.011				Mean Sea Level
Drilling Company	*Foreman*	*Date*	*Time*	*Level(s)*	*Ground Elevation*
H&S Borings	Leo Charbonneau Sr.	8/13/91		6.82	206.92
Surveyor					*Top of Protective Steel Cap Elevation*
ABD Surveyors					
Date and Time of Completion	*Inspector*				*Top of Riser Pipe Elevation*
July 30, 1991 14:45	Matt Bell				208.72

GENERALIZED SOIL DESCRIPTION	ELEVATIONS (ft above Mean Sea Level)	DEPTHS (ft below ground, not to scale)
	208.72	-1.80
	206.92	0.0
		1.0
		3.0
		5.0
Brown Sand & Clayey Silt		
		15.0
		17.5

CONSTRUCTION DETAILS



REMARKS

WELL CONSTRUCTION LOG

PROJECT	PROJECT NUMBER	WELL NUMBER
Vatrano Road Remediation	6429.07.30	MW-9

SITE	COORDINATES	GROUND SURFACE ELEVATION	CASING STICKUP
Vatrano Road Albany, NY	/	215.95 ft MSL ☒ Surveyed ☐ Estimated	1.33 ft

Soil Boring Cross-Reference MW-9
Town and City Albany
County and State Albany, NY

Installation Date (s) 12/3/97

Drilling Method 4.25" Hollow Stem Augers
Drilling Contractor SMT
Drilling Fluid None

Development Technique (s) / Dates
Developed well by Air Surging and Pumping on 12/4/97. Lowest NTU value achieved was 293.

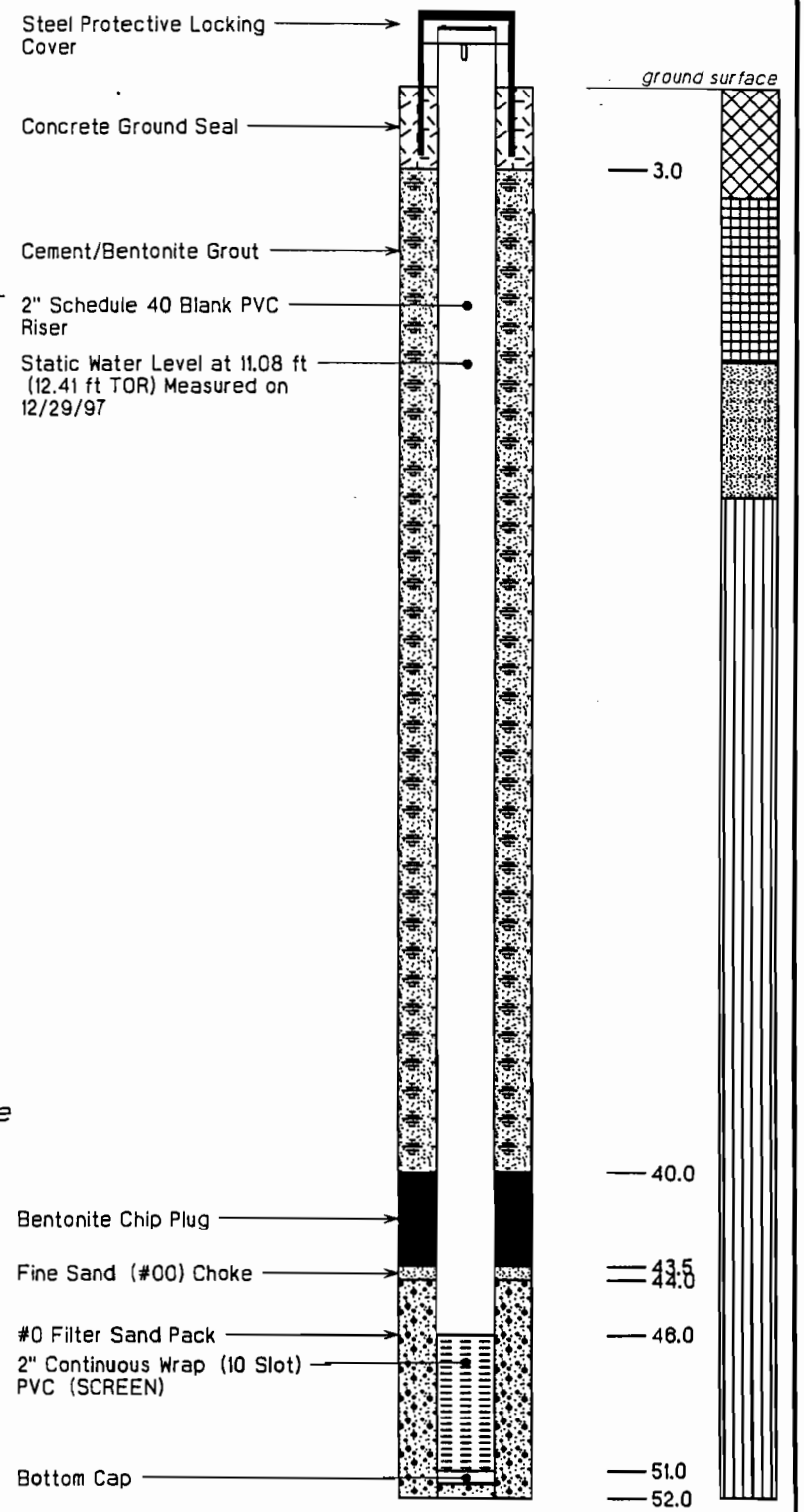
Fluid Loss During Drilling (gals)
Water Removed During Development (gals)
85 gal. over 4.25 hours - 12/4/97

Static Depth to Water Date 12/4/97
Static Depth to Water (feet) 17.50 ft TOR

Well Purpose PCB and Solvent Monitoring

Remarks Top 4 ft of soil is clean fine sand backfill. From 4-10 ft below grade is a black/brown sand fill with cinders. From 10-15 ft is a fine-med. grained natural sand. From 15-52 ft is gray clayey Silt with trace-little f. sand.

Prepared By S. Pidgeon
Date Prepared 1/2/98



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LABORATORY REPORT

for

Clough, Harbour & Assoc. LLP
3 Winners Circle
PO Box 5269
Albany, NY 12205 5269

Attention: Rogina Camilli

Purchase Order #: 7899.07.00

Report date: 04/20/00
Number of samples analyzed: 9
AES Project ID: 000406BG
Invoice #: 211767

ELAP ID#: 10709

AIHA ID#: 7866

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-1
AES sample #: 000406BG01
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	<0.005	mg/l	KH-I-3C-29	04/18/00
Mercury	EPA-245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Lead-Filtered	EPA-200.7	<0.005	mg/l	KH-I-3C-29	04/18/00
Mercury-Filtered	EPA 245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/10/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-1 — Date sample received: 04/06/00
AES sample #: 000406BG01 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
PCB-1016	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-1 — Date sample received: 04/06/00
AES sample #: 000406BG01 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1221	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1232	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1242	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1248	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1254	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1260	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-2
AES sample #: 000406BG02
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	<0.005	mg/l	KH-I-3C-29	04/18/00
Mercury	EPA-245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloroethene Total	EPA-624	73	ug/l	JF-BV-15	04/10/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/10/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-2
AES sample #: 000406BG02
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Trichloroethene	EPA-624	22	ug/l	JF-BV-15	04/10/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Tetrachloroethene	EPA-624	120	ug/l	JF-BV-15	04/10/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
PCB-1016	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1221	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1232	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-2
AES sample #: 000406BG02
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

continued:

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1242		EPA-608	0.349	ug/l	KF-PCBAF14	04/07/00
PCB-1248		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1254		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1260		EPA-608	0.258	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-3
AES sample #: 000406BG03
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	<0.005	mg/l	KH-I-3C-29	04/18/00
Mercury	EPA-245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/10/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-3 — Date sample received: 04/06/00
AES sample #: 000406BG03 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Trichloroethene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Dibromochloromethane		EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2-Trichloroethane		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Benzene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Chloroethylvinylether		EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromoform		EPA-624	<5	ug/l	JF-BV-15	04/10/00
4-Methyl-2-pentanone		EPA-624	<10	ug/l	JF-BV-15	04/10/00
2-Hexanone		EPA-624	<10	ug/l	JF-BV-15	04/10/00
Tetrachloroethene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Toluene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chlorobenzene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Ethylbenzene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Styrene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Xylenes,Total		EPA-624	<5	ug/l	JF-BV-15	04/10/00
PCB-1016		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1221		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1232		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-3
AES sample #: 000406BG03
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

continued:

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1242		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1248		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1254		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1260		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-4
AES sample #: 000406BG04
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	0.021	mg/l	KH-I-3C-29	04/18/00
Mercury	EPA-245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloroethene Total	EPA-624	5.1	ug/l	JF-BV-15	04/10/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/10/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-4 — Date sample received: 04/06/00
AES sample #: 000406BG04 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
PCB-1016	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1221	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1232	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-4
AES sample #: 000406BG04
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1242	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1248	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1254	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1260	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-5
AES sample #: 000406BG05
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	<0.005	mg/l	KH-I-3C-29	04/18/00
Mercury	EPA-245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/10/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-5
AES sample #: 000406EG05
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
PCB-1016	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1221	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1232	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-5 — Date sample received: 04/06/00
AES sample #: 000406BG05 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1242		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1248		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1254		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1260		EPA-608	0.567	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-6
AES sample #: 000405AY01
Samples taken by: D. Ward Jr.
MATRIX: Ground Water
Date Sampled: 04/05/00
Date sample received: 04/05/00
Location: Vatrano Road
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	0.030	mg/l	KH-I-3C-28	04/17/00
Mercury	EPA-245.1	<0.0004	mg/l	KH-PSO-122	04/07/00
Lead-Filtered	EPA-200.7	0.008	mg/l	KH-I-3C-28	04/17/00
Mercury-Filtered	EPA 245.1	<0.0004	mg/l	KH-PSO-122	04/07/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-6
AES sample #: 000405AY01
Samples taken by: D. Ward Jr.
MATRIX: Ground Water
Date Sampled: 04/05/00
Date sample received: 04/05/00
Location: Vatrano Road
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/07/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/07/00
PCB-1016	EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-6
AES sample #: 000405AY01
Samples taken by: D. Ward Jr.
MATRIX: Ground Water
Date Sampled: 04/05/00
Date sample received: 04/05/00
Location: Vatrano Road
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1221	EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1232	EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1242	EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1248	EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1254	EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1260	EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/05/00
CLIENT'S SAMPLE ID: MW-7 — Date sample received: 04/05/00
AES sample #: 000405AY02 — Samples taken by: D. Ward Jr. — Location: Vatrano Road
MATRIX: Ground Water — grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	0.007	mg/l	KH-I-3C-28	04/17/00
Mercury	EPA-245.1	<0.0004	mg/l	KH-PSO-122	04/07/00
Lead-Filtered	EPA-200.7	0.006	mg/l	KH-I-3C-28	04/17/00
Mercury-Filtered	EPA 245.1	<0.0004	mg/l	KH-PSO-122	04/07/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,2-Dichloroethene Total	EPA-624	6.0	ug/l	JF-BV-15	04/07/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-7
AES sample #: 000405AY02 Samples taken by: D. Ward Jr. Location: Vatrano Road
MATRIX: Ground Water grab
Date Sampled: 04/05/00
Date sample received: 04/05/00

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/07/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/07/00
PCB-1016	EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-7
AES sample #: 000405AY02
Samples taken by: D. Ward Jr.
MATRIX: Ground Water

Date Sampled: 04/05/00
Date sample received: 04/05/00
Location: Vatrano Road
grab

continued:

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1221		EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1232		EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1242		EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1248		EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1254		EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00
PCB-1260		EPA-608	<0.065	ug/l	KF-PCBAF14	04/06/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-8 — Date sample received: 04/06/00
AES sample #: 000406BG06 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	<0.005	mg/l	KH-I-3C-29	04/18/00
Mercury	EPA-245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Lead-Filtered	EPA-200.7	<0.005	mg/l	KH-I-3C-29	04/18/00
Mercury-Filtered	EPA 245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/10/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-8 — Date sample received: 04/06/00
AES sample #: 000406BG06 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
PCB-1016	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-8 — Date sample received: 04/06/00
AES sample #: 000406BG06 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1221	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1232	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1242	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1248	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1254	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1260	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-9
AES sample #: 000406BG07
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	<0.005	mg/l	KH-I-3C-29	04/18/00
Mercury	EPA-245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Lead-Filtered	EPA-200.7	<0.005	mg/l	KH-I-3C-29	04/18/00
Mercury-Filtered	EPA 245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/10/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 000405AY03 Samples taken by: D. Ward Jr. Location: Vatrano Road
MATRIX: Water grab
Date Sampled: 04/05/00
Date sample received: 04/05/00

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 000405AY03 Samples taken by: D. Ward Jr. Location: Vatrano Road
MATRIX: Water grab
Date Sampled: 04/05/00
Date sample received: 04/05/00

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/07/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/07/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/07/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/07/00

APPROVED BY: _____
Report date: 04/19/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-9 — Date sample received: 04/06/00
AES sample #: 000406BG07 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Bromodichloromethane		EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloropropane		EPA-624	<5	ug/l	JF-BV-15	04/10/00
trans-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Trichloroethene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Dibromochloromethane		EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2-Trichloroethane		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Benzene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Chloroethylvinylether		EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromoform		EPA-624	<5	ug/l	JF-BV-15	04/10/00
4-Methyl-2-pentanone		EPA-624	<10	ug/l	JF-BV-15	04/10/00
2-Hexanone		EPA-624	<10	ug/l	JF-BV-15	04/10/00
Tetrachloroethene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Toluene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chlorobenzene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Ethylbenzene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Styrene		EPA-624	<5	ug/l	JF-BV-15	04/10/00
Xylenes,Total		EPA-624	<5	ug/l	JF-BV-15	04/10/00
PCB-1016		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-9
AES sample #: 000406BG07
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

continued:

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1221		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1232		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1242		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1248		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1254		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1260		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: MW-10
AES sample #: 000406EG08
Samples taken by: D. Ward
MATRIX: Ground Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Lead	EPA-200.7	0.022	mg/l	KH-I-3C-29	04/18/00
Mercury	EPA-245.1	<0.0004	mg/l	MW-PSO-123	04/10/00
Lead-Filtered	EPA-200.7	0.009	mg/l	KH-I-3C-29	04/18/00
Mercury-Filtered	EPA 245.1	<0.0004	mg/l	KH-PSP-3	04/19/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloroethene Total	EPA-624	5.3	ug/l	JF-BV-15	04/10/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/10/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-10 — Date sample received: 04/06/00
AES sample #: 000406BG08 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
PCB-1016	EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP — Date Sampled: 04/06/00
CLIENT'S SAMPLE ID: MW-10 — Date sample received: 04/06/00
AES sample #: 000406BG08 — Samples taken by: D. Ward — Location: Vatrano Rd.
MATRIX: Ground Water — grab

continued:

PARAMETER	PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
PCB-1221		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1232		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1242		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1248		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1254		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00
PCB-1260		EPA-608	<0.065	ug/l	KF-PCBAF14	04/07/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 000406BG09 Samples taken by: D. Ward
MATRIX: Water

Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Acetone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Carbon Disulfide	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chloroform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Butanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Vinyl Acetate	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00

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CLIENT: Clough, Harbour & Assoc. LLP
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 000406BG09 Samples taken by: D. Ward
MATRIX: Water
Date Sampled: 04/06/00
Date sample received: 04/06/00
Location: Vatrano Rd.
grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Benzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Bromoform	EPA-624	<5	ug/l	JF-BV-15	04/10/00
4-Methyl-2-pentanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
2-Hexanone	EPA-624	<10	ug/l	JF-BV-15	04/10/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Toluene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Styrene	EPA-624	<5	ug/l	JF-BV-15	04/10/00
Xylenes,Total	EPA-624	<5	ug/l	JF-BV-15	04/10/00

APPROVED BY:
Report date: 04/20/00

APPENDIX C

FIELD SAMPLING DATA SHEETS

Clough, Harbour & Associates LLP **Well Sampling Log**	Sample Designation: MW-1
Project Name: Vatrano Rd Project Location: Albany, NY	Project No: 7899.07.00 Date: 4/6/00 Screen Length: 10'

Purge Information:

(1) Depth to Bottom of Well (from TOR): 17.30'

(2) Depth to Water (from TOR): 7.96' ft

(3) Column of Water (#1 - #2): 9.34'

(4) Casing Diameter: 2 in

(5) Volume Conversion: 0.163 gal/ft

(6) 1 Vol. of Well: 1.52 gal

Method of Purging: (WaTerra)/Bailer/Submersible/Other: ______

Volume Conversion:

(2" = 0.163) 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis: Began Purging @ 4:05PM

Vol Purged (gal)	0.4	0.8	1.2	1.6	2.0			
Time	4:12	4:21	4:28	4:36	4:45			
ORP/EH (MV)	-70	-70	-70	-75	-70			
pH	6.39	6.57	6.64	6.77	6.71			
Cond. ((uS) or mS)	968	959	951	958	962			
Turb. (NTU)	145	98.5	82.3	80.3	138			
Temp. (°C)	11.4	11.3	11.1	11.2	11.0			

Total Volume Purged: 3 gal Total Purge Time: 50 min

Sampling Info:

Sample Method: Grab/WaTerra

No. of Bottles: 5

Sample Time: 4:55PM

Sample Analyses: TCL VOC's, PCB's 8080, Total + Filtered Pb + Hg

Comments: Began by purging at a slow rate and high in the well's water column to try and keep turbidity down

* Had to lower tube down @ 1.6 gallons as the well's column of water got lower as water was pumped out.

Logged By: DW

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* Sampled as turbidity [illegible] well

* Used 1 filter.

Sheet 1 of 1

Clough, Harbour & Associates LLP
Well Sampling Log

Sample Designation: MW-2

Project Name: VATRANO RD.
Project Location: ALBANY, N.Y.

Project No: 7899.07.00
Date: 4/6/00
Screen Length: 10'

Purge Information:

(1) Depth to Bottom of Well: 19.94' (from TOR)
(2) Depth to Water: 10.16' (from TOR) ft
(3) Column of Water: 9.78' (#1 - #2)
(4) Casing Diameter: 2 in
(5) Volume Conversion: 0.163 gal/ft
(6) 1 Vol. of Well: 1.6 gal

Method of Purging: WaTerra/Bailer/Submersible/Other:

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis: Began Purging @ 10:20 AM

Vol Purged (gal)	0.5	1.0	1.5	2.0				
Time	10:28	10:35	10:43	10:51				
ORP/EH (MV)	130	110	110	110				
pH	7.60	7.54	7.52	7.55				
Cond. (uS or mS)	421	448	447	452				
Turb. (NTU)	30.2	20.5	19.5	15.3				
Temp. (°C)	7.6	7.8	7.8	7.7				

Total Volume Purged: 3 gal Total Purge Time: 40 min

Sampling Info:

Sample Method: GRAB/WATERRA
No. of Bottles: 4
Sample Time: 11:00 AM
Sample Analyses: TCL VOC's, PCB's 8080, Total Pb + Hg

Comments: Began by purging at a slow rate and high in the well's water column to try and keep turbidity down

Logged By: DW

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Clough, Harbour & Associates LLP Well Sampling Log	Sample Designation: MW-3
Project Name: Watervliet Project Location: Albany, NY	Project No: 7899.01.00 Date: 4/6/00 Screen Length: 10'

Purge Information:

(1) Depth to Bottom of Well: 20.0' (from TOR)

(2) Depth to Water: 9.18' (from TOR) ft

(3) Column of Water: 10.82' (#1 - #2)

(4) Casing Diameter: 2 in

(5) Volume Conversion: 0.163 gal/ft

(6) 1 Vol. of Well: 1.76 gal

Method of Purging: WaTerra/Bailer/Submersible/Other:

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis: Began Purging @ 12:40PM

Vol Purged (gal)	0.5	1	1.4	1.8	2.2	2.6	3.0	3.5
Time	12:48	12:56	1:03	1:10	1:16	1:23	1:30	1:36
ORP/EH (MV)	55	55	45	40	35	35	35	30
pH	7.81	7.69	7.56	7.61	7.63	7.57	7.51	7.57
Cond. (uS or mS)	624	619	612	617	616	614	608	612
Turb. (NTU)	699	488	272	190	130	97.7	68.0	40.2
Temp. (°C)	10.0	10.4	10.3	10.5	11.4	11.6	11.4	11.5

Total Volume Purged: 4.5 gal Total Purge Time: 1hr 5min

Sampling Info:

Sample Method: Grab/Waterra

No. of Bottles: 4

Sample Time: 1:45 pm

Sample Analyses: TCL VOC's, ABs 8260, Total Pb + Hg

Comments: Known by purging at a low rate and high in the well water column to try and keep turbidity down

Logged By: DW

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Clough, Harbour & Associates LLP
Well Sampling Log

Sample Designation: MW-4 (MW-10)

Project Name: VALPARAISO PO
Project Location: ALBANY, NY

Project No: 17899.07.00
Date: 4/6/00
Screen Length: 10'

Purge Information:

(1) Depth to Bottom of Well: 18.82' (from TOR)
(2) Depth to Water: 8.51' ft (from TOR)
(3) Column of Water: 10.31' (#1 - #2)
(4) Casing Diameter: 2 in
(5) Volume Conversion: 0.163 gal/ft
(6) 1 Vol. of Well: 1.68 gal

Method of Purging: WaTerra/Bailer/Submersible/Other:

Volume Conversion:

2" = 0.163 | 4" = 0.653 | 6" = 1.469 | 8" = 2.611 | 10" = 4.08

Field Analysis: Began Purging @ 2:15PM

Vol Purged (gal)	0.5	1	1.40	1.8				
Time	2:24	2:33	2:41	2:48				
ORP/EH (MV)	100	90	90	85				
pH	7.39	7.13	7.34	7.40				
Cond. (uS or mS)	549	560	561	564				
Turb. (NTU)	56.9	37.2	29.3	24.8				
Temp. (°C)	12.9	12.1	12.0	11.8				

Total Volume Purged: 3 gal Total Purge Time: 45 min

Sampling Info:
Sample Method: GRAB / WATERRA
Sample Time: 3:00 PM
No. of Bottles: 4
Sample Analyses: TCL VOCs, PCB's 8080, TOTAL Pb + Hg

Comments: Began by purging at a slow rate and high in the well's water column to try and keep turbidity down

* TOOK DUPLICATE (MW-10) AT THIS LOC.

Logged By: DW

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Clough, Harbour & Associates LLP **Well Sampling Log**	Sample Designation: MW-5
Project Name: Vatrano Rd. Project Location: Albany, NY	Project No: 7899.07.00 Date: 4/6/00 Screen Length: 10'

Purge Information:

(1) Depth to Bottom of Well: 19.36' (from TOR)

(2) Depth to Water: 8.61' ft (from TOR)

(3) Column of Water: 10.75' (#1 - #2)

(4) Casing Diameter: 2 in

(5) Volume Conversion: 0.163 gal/ft

(6) 1 Vol. of Well: 1.75 gal

Method of Purging: WaTerra/Bailer/Submersible/Other: ______

Volume Conversion:

2" = 0.163 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis: Began Purging @ 3:10pm

Vol Purged (gal)	0.5	1.0	1.4	1.8	2.2			
Time	3:18	3:26	3:33	3:40	3:46			
ORP/EH (MV)	95	90	90	90	85			
pH	7.28	7.34	7.22	7.32	7.36			
Cond. (uS or mS)	569	580	588	589	597			
Turb. (NTU)	25.9	21.0	10.8	8.44	7.19			
Temp. (°C)	13.4	12.8	12.4	12.3	12.2			

Total Volume Purged: 3 gal Total Purge Time: 45 min

Sampling Info:

Sample Method: Grab / WaTerra

No. of Bottles: 4

Sample Time: 3:55pm

Sample Analyses: TCL VOC's, PCB's 8080, Total Pb + Hg

Comments: Began by purging at a slow rate and high in the well's water column to try and keep turbidity down

Logged By: DW

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Sheet 1 of 1

Clough, Harbour & Associates LLP Well Sampling Log	Sample Designation: MW-6
Project Name: VATRANO RD Project Location: ALBANY, NY.	Project No: 7899.07.00 Date: 4/5/00 Screen Length: 10'

Purge Information:

(1) Depth to Bottom of Well: 16.60' (from TOR)

(2) Depth to Water: 3.12 ft (from TOR)

(3) Column of Water: 13.48' (#1 - #2)

(4) Casing Diameter: 2 in

(5) Volume Conversion: 0.163 gal/ft

(6) 1 Vol. of Well: 2.2 gal

Method of Purging: (WaTerra)/Bailer/Submersible/Other: _____

Volume Conversion:

(2" = 0.163) 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis: Began Purging @ 1:30PM

Vol Purged (gal)	0.5	1.1	1.6	2.2	2.5			
Time	1:38	1:47	1:55	2:01	2:07			
ORP/EH (MV)	-55	-60	-60	-55	-65			
pH	6.33	6.57	7.04	7.10	7.07			
Cond. (uS or mS)	634	626	641	643	638			
Turb. (NTU)	>1000	>1000	>1000	>1000	2,790			
Temp. (°C)	8.3	8.1	8.2	8.4	8.4			

Total Volume Purged: 3.5 gal Total Purge Time: 45 min

Sampling Info:

Sample Method: GRAB / WATERRA

No. of Bottles: 5

Sample Time: 2:15 PM

Sample Analyses: TCL VOC's, PCB's 8080, TOTAL + FILTERED Pb + Hg

Comments: Began by purging at a slow rate and high in the well's column of water to try and keep turbidity down

* Performed a serial dilution for lost turbidity readings

* Used 1 filter

Logged By: DW

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Clough, Harbour & Associates LLP **Well Sampling Log**	Sample Designation: MW-7
Project Name: Vanrand Rd Project Location: Albany, N.Y.	Project No: 7899.07.00 Date: 4/5/00 Screen Length: 10'

Purge Information:

(1) Depth to Bottom of Well (from TOR): 16.40'

(2) Depth to Water (from TOR): 3.23 ft

(3) Column of Water (#1 - #2): 13.17

(4) Casing Diameter: 2 in

(5) Volume Conversion: 0.163 gal/ft

(6) 1 Vol. of Well: 2.15 gal

Method of Purging: (WaTerra circled)/Bailer/Submersible/Other:

Volume Conversion:

(2" = 0.163 circled) 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis: Began Purging @ 2:30 pm

Field Analysis									
Vol Purged (gal)	0.5	1.0	1.3	1.6	1.9	2.2	2.5	4.0	5.0
Time	2:39	2:48	2:53	2:59	3:05	3:12	3:18	3:33	3:44
ORP/EH (MV)	35	45	60	60	60	65	65	70	60
pH	7.47	7.12	7.08	7.25	7.34	7.32	7.35	7.39	7.43
Cond. (uS circled or mS)	392	427	433	445	449	468	485	492	496
Turb. (NTU)	<1000	<1000	418	218	113	216	120	110	154
Temp. (°C)	7.9	8.5	7.9	8.0	8.1	8.1	8.2	7.9	8.2

Total Volume Purged: 6 gal Total Purge Time: 1 hr 25 min

Sampling Info:

Sample Method: Grab / WaTerra

Sample Time: 3:55 pm

No. of Bottles: 5

Sample Analyses: TCL VOC's, PCB's 8080, Total + Filtered Pb + Hg

Comments: Began by purging @ a slow rate and high in the well's water column to [illegible]. [illegible] down
* The flow stopped twice at around 2 gallons and the purge rate had to be increased to get flow started again
*Could not seem to get turbidity to drop below roughly 100 NTU

Logged By: DW.

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*If the purge rate was [illegible] too much then the flow would stop [illegible] [illegible] appear to be dropping [illegible] 100 NTU [illegible]

Sheet 1 of 1

Clough, Harbour & Associates LLP Well Sampling Log	Sample Designation: MW-8
Project Name: Vatrano Rd Project Location: Albany, NY	Project No: 7899.07.00 Date: 4/6/00 Screen Length: 10'

Purge Information:

(1) Depth to Bottom of Well (from TOR): 15.96'
(2) Depth to Water (from TOR): 5.04 ft
(3) Column of Water (#1 - #2): 10.92'
(4) Casing Diameter: 2 in
(5) Volume Conversion: 0.163 gal/ft
(6) 1 Vol. of Well: 1.78 gal

Method of Purging: (WaTerra)/Bailer/Submersible/Other: ______

Volume Conversion:

(2" = 0.163) 4" = 0.653 6" = 1.469 8" = 2.611 10" = 4.08

Field Analysis: Began Purging @ 8:45 AM

Vol Purged (gal)	0.5	0.9	1.4	1.8	2.2	2.6	3.0	3.5	4.0
Time	8:53	9:00	9:08	9:15	9:22	9:29	9:35	9:43	9:51
ORP/EH (MV)	160	155	150	150	140	145	140	135	130
pH	7.73	7.50	7.65	7.64	7.58	7.68	7.73	7.71	7.69
Cond. ((uS) or mS)	654	727	785	794	784	798	804	812	817
Turb. (NTU)	219	112	73.3	60.3	53.1	59.1	65.8	72.0	76.0
Temp. (°C)	6.2	6.4	6.5	6.5	6.4	6.6	6.6	6.6	6.6

Total Volume Purged: 5 gal Total Purge Time: 1hr 15min

Sampling Info:

Sample Method: Grab/WaTerra
No. of Bottles: 5
Sample Time: 10:00 AM
Sample Analyses: TCL VOC's, PCB's 8080, Total + Filtered Pb + Hg

Comments: Began by purging at a slow rate and high in the well's water column to try and keep turbidity down. * Could not get turbidity below 50 NTU and sampled as the turbidity began to rise again

Logged By: DW

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* Used 1 filter

Sheet 1 of 1

Clough, Harbour & Associates LLP Well Sampling Log	Sample Designation: MW-9
Project Name: VATRANO PS Project Location: ALBANY, NY.	Project No: 7899.07.00 Date: 4/6/00 Screen Length: 10'

Purge Information:

(1) Depth to Bottom of Well: 52.90' (from TOR)
(2) Depth to Water: 11.84 ft (from TOR)
(3) Column of Water: 41.06' (#1 - #2)
(4) Casing Diameter: 2 in
(5) Volume Conversion: 0.163 gal/ft
(6) 1 Vol. of Well: 6.7 gal

Method of Purging: WaTerra/Bailer/Submersible/Other:

Volume Conversion:

2" = 0.163 | 4" = 0.653 | 6" = 1.469 | 8" = 2.611 | 10" = 4.08

Field Analysis: Bega - Purging @ 11:15 AM

Vol Purged (gal)	2	4	5.5	6	6.5	7	Post Filtration	
Time	11:31	11:46	11:58	12:05	12:12	12:19		
ORP/EH (MV)	65	50	10	-10	-10	-15		
pH	8.34	8.45	8.64	8.92	9.01	9.03		
Cond. (uS or mS)	296	301	297	305	307	310		
Turb. (NTU)	192	>1000	>1000	>1000	>1000	23,000	199	
Temp. (°C)	9.0	9.9	11.7	11.8	11.3	11.5		

Total Volume Purged: 8 gal Total Purge Time: 1hr 15 min

Sampling Info:

Sample Method: Grab / Waterra
Sample Time: 12:30PM
No. of Bottles: 5
Sample Analyses: TCL VOC's, PCB's 8080, TOTAL + FILTERED Pb + Hg

Comments: Began by purging at a slow rate and light in the well's water column to try and keep turbidity down * Turbidity was still 199 NTU even after filtering the water using an in-line filter

Logged By: DW.

U:\GEO\FORMS\WELLSAMP.LOG~

* Used 1 filter

APPENDIX D

CHAIN OF CUSTODY

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS: (Names)
CHA	V-MW Po	Dan Wind Jr
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
I W ... Albany NY 12205	7999.07.00	

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
100406 BG01	MW-1	7/6/00	4:55 A/P	GW		X	5	TCL VOLATILES,
BG02	MW-2		11:00 A/P			X	4	PCB's 8080 TAL
BG03	MW-3		1:45 A/P			X	4	METALS (SOME
BG04	MW-4		3:00 A/P			X	4	WITH FILTERED
BG05	MW-5		3:55 A/P			X	4	METALS AND
BG06	MW-8		10:00 A/P			X	5	SOME WITHOUT
BG07	MW-9 (*) see note previous page (*)		12:30 A/P			X	5	FILTERED
BG08	MW-10		11:30 A/P			X	5	METALS)
BG09	TRIP BLANK		A/P	WATER		X	1	TCL VOLATILES
			A/P					
	(*) Samples with (5) total bottles		A/P					(*) metal requested
	needs filtered metals only *		A/P					per bottles: Pb/Hg (*)
			A/P					MSL

Turnaround Time: Normal Protocol (Non-NYSP)

Laboratory Approval:

Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time** 7/6/00 | 5:25 PM
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature)	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
		925 Miller	7/6/00 | 5:30

Method of Shipment:	**Send Report To:**	**Client Phone No.:**
HAND DELIVER	PAGINA CAMILLA	453-4500

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS: (Names)
Clough Harbour and Associates LLP	Vairano Road	Don Ward Jr.
ADDRESS: 3 Winners Circle, Albany, NY 12205-1965	PO NUMBER: 7899.07.00	SAMPLERS: (Signature)

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE: MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
	MW-1		A P	GW		G	5	TCL Volatiles, PCB's 8080 Total & Filtered Pb and Hg
	MW-2		A P	GW		G	5	SAME
	MW-3		A P	GW		G	5	SAME
	MW-4		A P	GW		G	5	SAME
	MW-5		A P	GW		G	5	SAME
100405 AY01	MW-6	4/5/00	2:30 A P	GW		G	5	SAME
AY02	MW-7	4/5/00	3:55 A P	GW		G	5	SAME
	MW-8		A P	GW		G	5	SAME
	MW-9		A P	GW		G	5	SAME
	MW-10		A P	GW		G	5	SAME
AY	Trip Blank		A P	WA		G	1	TCL Volatiles
			A P					
			A P					

Turnaround Time: Normal Protocol (Non-ASP)

Laboratory Approval:

Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time** 4/5/00 | 5:00PM
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Dispatched by: (Signature) / **Date/Time**	**Received for Laboratory by:**	**Date/Time** 4/5/00 | 5:00
Method of Shipment: Hand deliver	**Send Report To:** Regina Camilli	**Client Phone No.:** 453-4569

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy