2010 PERIODIC REVIEW REPORT
for
Vatrano Road Site
Albany, New York

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

CHA Project No.: 21273.1000.31000

Prepared for:

GE Energy
GE International, Inc.
621 Main Street
Fitchburg, MA 01420

Prepared by:

CHA

III Winners Circle
Albany, New York, 12205
(518) 453-4500

July 2010

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

I. EXECUTIVE SUMMARY

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 to service electric motors and transformers containing polychlorinated biphenyls (PCBs).

The results of a series of preliminary investigations indicated that the subject site's soils were contaminated with PCBs. As a result, the New York State Department of Environmental Conservation (NYSDEC) identified the property as an inactive hazardous waste disposal site that represented 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) for 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.

As a result, remediation of the Site was performed in 1997 by means of excavation and off-site disposal. This method of remediation was chosen based on the limited timeframe that would be required to remediate the Site. Following the remediation, groundwater monitoring and visual inspections were to be performed semi-annually for two years and annually for three additional years.

The 2003 report was scheduled to be the final Annual Monitoring Report; however, due to the persistent detection of PCBs and VOCs in samples from a limited number of the monitoring wells, additional rounds of annual monitoring events were conducted from 2004 to 2009 to further evaluate PCB and VOC concentrations at the site.

As a result of the continued detection of VOCs and PCBs above the groundwater standards as indicated the by latest groundwater monitoring event, CHA recommends that an additional round of sampling be performed in 2011. However, based on historical data, it is proposed that wells MW-3, MW-5, MW-6 and MW-8 no longer be sampled.

II. SITE OVERVIEW

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.

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 represented 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) for 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 re-evaluated a stabilization/solidification remedy and a 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 CHA. A full description of the remediation can be found in the December 1998, *Remediation Engineering Certification Report*, also prepared by CHA.

Following the remediation that was conducted at the Site, an *Operations, Maintenance and Monitoring Plan* (OM&M Plan) was prepared in 1998 to address the documentation requirements put forth by the Order on Consent (Index #A4-0355-9704) between the NYSDEC and General Electric. In accordance with the OM&M Plan, sampling was to be conducted on a semi-annual basis beginning in October of 1998 and continuing for two years, and on an annual basis beginning in 2001 and continuing for three years. The plan was approved by the NYSDEC in a letter dated February 1, 1999.

The 2003 report was scheduled to be the final Annual Monitoring Report; however, due to the continued detections of PCBs and VOCs in samples from a limited number of the monitoring wells, additional rounds of annual monitoring events were conducted from 2004 to 2010 to further evaluate PCB and VOC concentrations at the site. This is the ninth annual report following eight previous annual reports and two series of semi-annual reports for the Vatrano Road site.

It should be noted that this is the first annual report to be submitted in the "Periodic Review Report" format set forth by the NYSDEC as requested by Mr. Gerald Pratt of the NYSDEC. This report has been prepared and the associated monitoring performed by CHA of Albany, New York.

III. EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

A. OM&M Plan Compliance Report

1. OM&M Plan Requirements and Compliance Status

As noted previously, the remediation performed in 1997 removed all accessible contaminated soil and backfilled the resulting excavation with clean fill. At the close of the remedial activities, the area behind Buildings #10, #12, and #14 Vatrano Road received topsoil and seed. No maintenance is required in this area other than mowing. Mowing of this area is the responsibility of the property owner, Vatrano Realty. At the close of the remedial activities, the finished surface between Buildings #14 and #16 was a gravel sub-base designed to require no maintenance.

However, shortly after the close of the remedial activities, the property owner paved this area. The placement of the pavement in this area was not expected to impact the outcome of the remedial activities conducted to date but rather provides additional protection against direct exposure to residual contamination remaining in the subsurface. The property owner, Vatrano Realty, is responsible for the maintenance of the paved surface.

The OM&M Plan requires that all areas of the site which were the subject of the remedial activities be inspected for evidence of erosion or other forms of degradation during each ground water monitoring event. Conditions are to be recorded on the sampling logs and discussed in the associated reports.

Other than general landscape maintenance of the ground surface at the Site as performed by the property owner, no significant maintenance at the Site is required. Provisions for restricting access to the Site consist of a section of six (6) foot high chain link fencing between Buildings #14 and #16. The property owner, Vatrano Realty, is responsible for the maintenance of the fencing. Inspections of the fencing at the Site have been completed by CHA since monitoring began in 1998.

In addition to maintenance of the site, the OM&M Plan specifies a monitoring and sampling plan (Section IIB) for the nine (9) groundwater monitoring wells associated with the Site. Although not specifically required by the OM&M Plan, inspections of the monitoring wells are also performed prior to each sampling event to ensure that the each well is in good condition prior to sampling. Conditions are noted on sampling logs and photo-documented.

Lastly, the Remediation Engineering Certification Report for the Site specified that deed restrictions should be placed on the property after the completion of the five-year monitoring program. Since the monitoring program has been continually extended, deed restrictions have not yet been put in place.

2. *Evaluation of O&M Activities*

During the April 2010 monitoring event, an overall site inspection was completed. Several photographs of the monitoring wells were taken during this site inspection and are included as Appendix A. All monitoring wells were inspected at the time of sampling.

Monitoring of the nine (9) monitoring wells associated with the Site was completed as specified in the OM&M Plan. Results from this monitoring program are presented in Section IIB.

The next monitoring event and site inspection is scheduled for April 2011.

B. Monitoring Plan Compliance Report

1. Compliance with Monitoring Plan

In accordance with the OM&M Plan, both on- and off-site groundwater monitoring wells were to be sampled semi-annually for two years and then annually for three subsequent years, at which time a review of the remedial action was scheduled to take place. Based on the first review in 2003 and each subsequent year since then, additional rounds of annual monitoring events have been conducted to further evaluate PCB and VOC concentrations at the site due to the persistent detection of PCBs and VOCs in samples from a limited number of the monitoring wells. Procedures and protocols, and the specifics associated with this monitoring program are discussed below.

Head Space Readings: A photoionization detector (PID) was utilized to check the headspace of each well for organic vapors immediately upon opening each well cap. Readings of 0.0 ppm were registered on the PID in each of the wells in the monitoring network for the site. Therefore, no organic vapors were detected in any of the monitoring wells. The observed organic vapor levels are recorded on the Groundwater Well Field Sampling Summary (Table B.1) included as Appendix B.

Water Level Measurement: Prior to sampling, the water level in each well was measured to the nearest one hundredth of a foot using an electronic water level meter. The water level meter was thoroughly decontaminated between monitoring wells using accepted protocols. A summary of the elevations of the groundwater in each of the monitoring wells is included as Table 1. This data was used to develop the groundwater piezometric map presented as Figure 3.

Prevention of Cross-Contamination: To prevent cross-contamination, the wells are sampled from the least contaminated well to the most contaminated well, or from upgradient to down gradient, whenever possible. Cross-contamination is further prevented through the use of dedicated equipment.

Monitoring Well Purging: As previously recommended by CHA and as utilized since the 2005 monitoring event, sampling during the April 2010 event was conducted by utilizing an accepted low-flow purging and sampling method. Dedicated 3/8-inch high density polyethylene (HDPE) tubing was installed in each well during the April 2005 sampling event and is utilized for the purposes of purging and sampling during monitoring events. The use of dedicated tubing in each well reduces the potential for cross contamination. Purge water generated from sampling the on-site wells was placed in a properly labeled drum to be removed for disposal by Clean Harbors Environmental Services, Inc. of Glenmont, New York. A copy of the manifest for the disposal of the purge water was not available at the time this report was prepared. However, when it becomes available, a copy will be submitted under separate cover to be included as Appendix C.

Groundwater Sample Collection: Groundwater was extracted from each well at a rate ranging from 150 to 225 ml/min via the installed dedicated tubing utilizing a combination of a submersible pump and a low-flow controller. As water was extracted from each well, field parameters including turbidity, temperature, pH, conductivity and Eh were obtained and

recorded at five-minute time intervals. These parameters were recorded on field sampling logs and are summarized in Table B.1, included as Appendix B. When each well achieved three consecutive sets of field parameter readings within accepted Low-Flow Sampling Standards, water samples were collected. For QA/QC purposes, a blind duplicate sample (MW-10) and a trip blank were submitted for analysis. The duplicate sample was collected from monitoring well MW-5. All equipment used in the field was calibrated before each use. All pertinent data was recorded on Field Data Sheets.

The use of the low-flow purging and sampling was successful as demonstrated by the fact that the turbidity levels for all of the monitoring wells at the time of the sampling event were below 50 NTUs and, therefore, no field filtering was necessary.

Sample Containers and Preservation: Sample containers are received from the analytical laboratory and are pre-cleaned and certified for a one-time use to avoid the potential risk of cross-contamination. Glass containers with Teflon disk tops are used for samples which are to be analyzed for PCBs. Plastic containers are used for the collection of samples to be analyzed for lead and mercury. Sample preservation procedures outlined in the OM&M Plan are carried out by keeping the sample at low temperatures and in the dark during transport to the lab and/or by chemical preservation in the field at the time of sample collection.

Sample Filtration: Sample filtration was not required during this monitoring event due to the low turbidity levels observed in the field. However, when conditions warrant, filtration is performed in the field whenever possible using pre-assembled, pre-sterilized, disposable filter ware.

Field QA/QC Samples: Field QA/QC includes both duplicate and trip blank analyses. Field duplicate samples are samples collected at the sample point, at the same time, and in the same manner as a given sample. Trip blanks consist of reagent water and are used to determine whether contamination has resulted from sample bottle preparation, blank water quality, and/or sample handling procedures. For this project, one trip blank is analyzed.

Chain-of-Custody Control: All samples were placed in an ice chest and transported to the laboratory performing the analyses following standard chain-of-custody procedures outlined in the OM&M Plan. A copy of the chain of custody is provided in Appendix D.

Laboratory Analysis and Quality Control: Historically, each groundwater sample was analyzed for the presence of volatile organics via EPA Method 8260, PCBs via EPA Method 608, lead via EPA Method 200.7, and mercury via EPA Method 245.1. However, in CHA's 2008 Annual Report, a recommendation was made that lead and mercury be removed from the list of analytes given that mercury was last detected at the site in October 1999, and lead was last detected in April 2004.

During a March 27, 2009 telephone conversation with Mr. Gerry Pratt of the NYSDEC, permission was granted for the elimination of the analyses for lead and mercury in the samples collected from all of the monitoring wells, with the exception of MW-9. Consequently, all groundwater monitoring samples obtained during the April 2009 and April 2010 sampling events were analyzed solely for the presence of volatile organics via EPA Method 8260 and PCBs via

EPA Method 608. Samples obtained from MW-9 were additionally analyzed for the presence of lead via EPA Method 200.7 and mercury via EPA Method 245.1. A complete list of parameters analyzed along with their applicable standards, units of measure, and analytical method detection limits is provided in Table 2.

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

Data Reduction and Reporting: Upon receipt of the laboratory results, the completeness and accuracy was evaluated and compared to the data generated during previous monitoring events. A ground water contour map, a tabular summary of the monitoring results, and a discussion of the results is presented below. Copies of the laboratory report and sampling logs for have been included as appendices.

2. Compliance with Performance Standards

i. Data Analysis

A summary of the groundwater quality data (detected parameters only) is presented in Table 3, where it is compared to data generated from previous monitoring events and to applicable standards. Shaded values indicate a concentration greater than the New York State Groundwater Standards set forth in the Division of Water Technical and Operation Guidance Series 1.1.1 (TOGS 1.1.1). A figure showing the sampling and well locations with detected analytes is included as Figure 3. The laboratory analytical results for the April 2010 sampling event are included as Appendix E.

As stated in Table 3, PCBs were detected only in the sample from well MW-2 during the 2010 sampling event. The total PCB concentration detected in MW-2 during the 2010 sampling event exceeds the TOGS 1.1.1 guidance value. While PCBs were detected in the sample from monitoring well MW-2 at a slightly higher concentration than in 2009, the detected concentrations of PCBs in this well have decreased since monitoring began in 1991.

PCBs were not detected in any of the off-site wells (MW-6, MW-7, and MW-8) during the 2010 monitoring event. PCBs were detected, for the first and only time to date, in the monitoring well MW-6 sample during the April 2005 monitoring event. This result is thought to be an anomaly as no PCBs have been detected in samples from this well since the April 2005 monitoring event.

PCBs were detected for the first time in well MW-9 during the 2007 monitoring event. While it was thought that this detection may have been an anomaly, PCBs were again detected during the 2008 monitoring event. Detected concentrations for 2008 were significantly lower than those of 2007. However, PCBs were not detected at levels above the reporting limit in the sample from well MW-9 during the 2009 or 2010 sampling event.

As stated previously, a representative from the NYSDEC granted permission for the discontinuance of the analyses for total metals (lead and mercury) in all of the Site's monitoring wells with the exception of MW-9. As a result, a groundwater sample from this well was analyzed for these parameters. However, neither lead nor mercury was detected at a concentration above the reporting limit.

Relative to current and historical VOC levels on-site, MW-2 continues to be the monitoring well most impacted by VOCs. During the April 2010 sampling event, concentrations of trichloroethene (62 µg/L), 1,2-dichloroethene (160 µg/L) and tetrachloroethene (320 µg/L) were detected in the sample collected from this well. The detected levels exceed the TOGS 1.1.1 guidance value of 5 µg/L for each of these parameters but are within the historical ranges of detected concentrations for this well.

The parameter 1,2-dichloroethene has historically been detected in the samples from monitoring wells MW-4 and MW-7. However, the parameter 1,2-dichloroethene was not detected in samples from either of these wells during the April 2010 sampling event

During the 2008 sampling event, vinyl chloride was detected at the site for the first time. It was detected in monitoring well MW-2 at a concentration of 33 µg/L, which was greater than the established NYSDEC standard of 2 µg/L for this compound. However, the groundwater samples obtained from this well during the April 2009 and 2010 sampling events did not contain vinyl chloride at levels above this parameter's analytical method reporting limit.

A review of the available QA/QC data indicates that the quality of the analytical results is acceptable. The laboratory data package contained qualified data for each sample analyzed; however, these qualified data are not anticipated to impact the quality of the data. In all monitoring well samples, the spike recovery for methyl acetate was outside the acceptable recovery limits. In addition, the spike recovery for 1,2,4-trichlorobenzene was outside the acceptable recovery limits for the sample collected from MW-3. However, neither of these compounds have ever been detected at the site and the qualified data is determined to be acceptable.

No QA/QC problems or issues were identified during any of these analyses. The results from the primary sample collected from monitoring well MW-5 are consistent with the field duplicate (sample MW-10). No parameters were detected in either of these samples.

ii. Observations

Figure 4 shows the groundwater contours based on the water levels measured on April 27, 2010 in the wells installed within the shallow aquifer. Well MW-9 is installed deeper in the aquifer; therefore, the water levels from monitoring well MW-9 were not used in developing the groundwater contour map.

Based on the latest water level measurements, groundwater flow was determined to be to the south towards Patroon Creek. The hydraulic gradient across the northern portion of the site for the April 2010 monitoring event was observed to be generally consistent with previous

monitoring events, and groundwater was determined to flow in keeping with localized topography toward Patroon Creek.

The gradient across the site was calculated to be 0.04 feet per foot; however, it should be noted that a slightly steeper gradient is apparent in the southeastern portion of the site (Figure 4). These results are generally consistent with historical data. Typically, water level data obtained during previous monitoring events indicate that the gradient at the southern end of the site is steeper than that of the northern portion, thus reflecting the influence of Patroon Creek and the local topography. These data indicate that the shallow overburden aquifer likely discharges to Patroon Creek.

When compared to adjacent monitoring wells that are installed in the shallow aquifer, historical water level data from MW-9 has typically indicated a vertically downward component of flow. Although soil boring data at the time monitoring well MW-9 was installed did not necessarily indicate the presence of a confining layer, the difference in water level could be evidence that the water bearing zone or aquifer monitored by MW-9 is confined.

iii. Groundwater Water Monitoring-Related Conclusions and Recommendations

Results for the groundwater samples collected in April 2010 indicate that PCBs were detected in only one of the nine monitoring wells (MW-2). In well MW-2, concentrations of detected PCBs have been generally decreasing since March 2003, with the samples collected in April 2007 and 2010 being the only exceptions. During the April 2010 monitoring event, PCBs were detected at a concentration that exceeds NYSDEC groundwater standards in MW-2. As noted, PCBs were not detected in any other well.

The VOC levels detected in the groundwater samples in well MW-2 during the April 2010 monitoring event exhibited little change relative to the levels detected during the April 2009 event. Concentrations of 1,2-dichloroethene and tetrachloroethene have decreased slightly since the 2009 sampling event while the trichloroethene concentration increased slightly. However, all concentrations are within the historical ranges for these parameters. Trichloroethene, tetrachloroethene and 1,2-dichloroethene continue to be detected at concentrations that exceed NYSDEC groundwater standards in monitoring well MW-2.

No other VOCs were detected during the April 2010 monitoring event. This is the first monitoring event during which monitoring well MW-2 was the only well in which contamination was detected. In addition, neither lead or mercury were detected in the sample from monitoring well MW-9.

C. IC/EC Compliance Report

1. IC/EC Requirements and Compliance

i. Summary of IC/EC Requirements and Compliance

The remediation performed in 1997 removed all accessible contaminated soil and backfilled the resulting excavation with clean fill. As a result, no additional engineering or institutional controls were required beyond the monitoring discussed in Section IIB, access restrictions consisting of a six (6) foot high fence between Buildings #14 and #16, and inspection/maintenance of the Site to prevent erosion and/or subsurface disturbance of contamination. Specifically, the engineering controls consist of maintenance of the paved surface between Buildings #14 and #16 and mowing of the area behind Buildings #10 and #12 on Vatrano Road. These surfaces, when maintained properly, prevent exposure to the minor amount of remaining contamination in soil/fill at the site. Although maintenance of the surfaces is the responsibility of the property owner (Vatrano Realty), procedures for the inspection of these surfaces are provided in the OM&M Plan and performed by CHA on behalf of General Electric concurrent with the annual groundwater monitoring event. In addition, the wells must be properly maintained to allow for groundwater monitoring as specified by the OM&M Plan and the fencing must remain in good condition so as to restrict access to the portion of the Site behind Buildings #12, #14 and #16.

Institutional controls required by the OM&M Plan are to inspect the engineering controls at an annual frequency and in a manner defined in the OM&M Plan. Specifically, the controls consist of inspecting the ground surface in the areas where remedial activities took place to ensure that erosion and/or subsurface disturbance of contamination is not occurring and inspecting the fencing section between Buildings #14 and #16. In addition, the monitoring wells are inspected on an annual basis to ensure they are in good working condition and being properly maintained.

ii. IC/EC-Related Conclusions and Recommendations

All areas of the site which were the subject of the remedial activities were inspected for evidence of erosion or other forms of degradation during the April 2010 groundwater monitoring event. Both the paved area between Buildings #14 and #16 and the unpaved area located south of Buildings 14 and 16 were observed to be generally in good condition. There was no evidence of significant erosion noted at the time of this monitoring event.

All on-site monitoring wells were in good condition and were locked at the time of this sampling event. The next inspection is scheduled to coincide with the April 2011 monitoring event.

All ICs/ECs are being properly implemented, maintained and monitored.

2. IC/EC Certification

Engineering controls, consisting of maintenance of the ground surface in areas where remedial activities were performed to prevent exposure to the minor amount of remaining contamination

in soil/fill at the site, are performing properly and remain effective. The monitoring plan is being implemented, operation and maintenance activities are being conducted properly, and based on this review, the remedy continues to be protective of public health and/or the environment and compliant with the decision documented.

At this time, it is recommended that all controls for the Site remain in place.

IV. RECOMMENDATIONS AND CONCLUSIONS

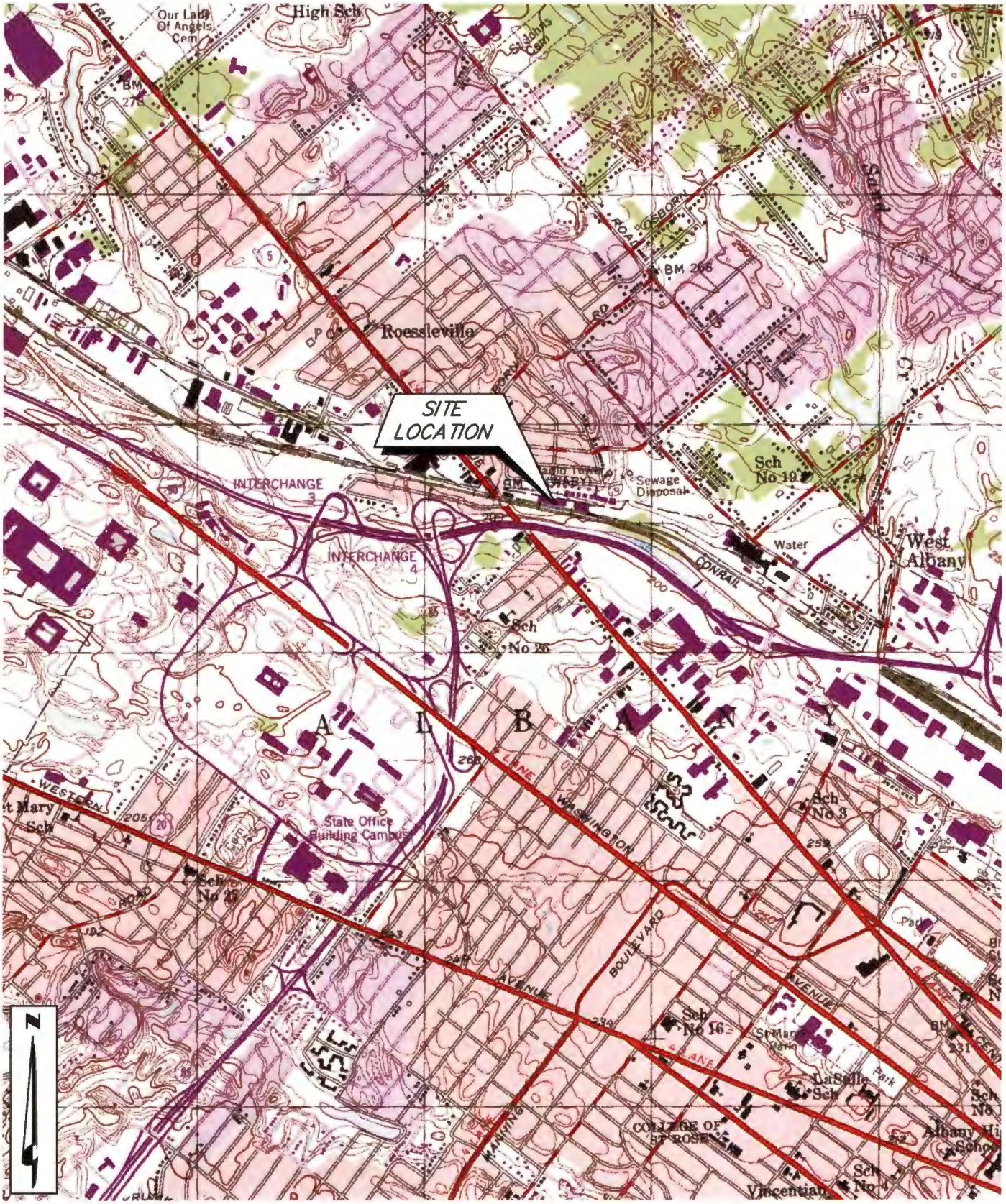
The site was observed to be in overall good condition during the inspection conducted as part of the April 2010 sampling event. All monitoring wells were observed to be in good condition.

The March 2003 Annual Monitoring event was scheduled to be the third, and final, of three annual monitoring events for the site as specified in the March 1998 Post-closure Monitoring and Maintenance Operations Manual. However, due to levels of PCBs and VOCs detected in the monitoring wells during the 2003 sampling event, CHA recommended that the annual monitoring program continue for an additional year so that any increase or decrease in PCB and VOC concentrations could be observed. However, during each event since 2003, a limited number of the parameters of concern have exceeded applicable groundwater standards.

As a result of the continued detection of VOCs and PCBs above NYSDEC groundwater standards, the annual monitoring program has been continually extended. In an overall review of the historical data, contaminant concentrations have either stabilized or are generally decreasing over time, and many parameters are not present at concentrations above the reporting limits. However, as with the 2009 monitoring data, the 2010 monitoring results continue to indicate PCB and VOC levels with some concentrations remaining above standards. As a result, CHA recommends that an additional round of sampling be performed in 2011.

However, based on historical data, it is proposed that wells MW-3, MW-5, MW-6 and MW-8 no longer be sampled. MW-8 has never had a detection above the applicable standards. There have been no detected constituents in MW-3 since the 2004 monitoring round, in MW-5 since the 2007 monitoring round, and in MW-6 since the April 2006 monitoring round. It is recommended, however, that these wells continue to be gauged so that the water level data may be utilized in the development of the groundwater contour map for the monitoring event.

FIGURES



SOURCE: U.S.G.S. 7.5' Topographic
QUADRANGLE: ALBANY, NY

SCALE: 1"=2000'

CHA
III Winners Circle, PO Box 5269 - Albany, NY 12205-0269
Main: (518) 453-4500 • www.chacompanies.com

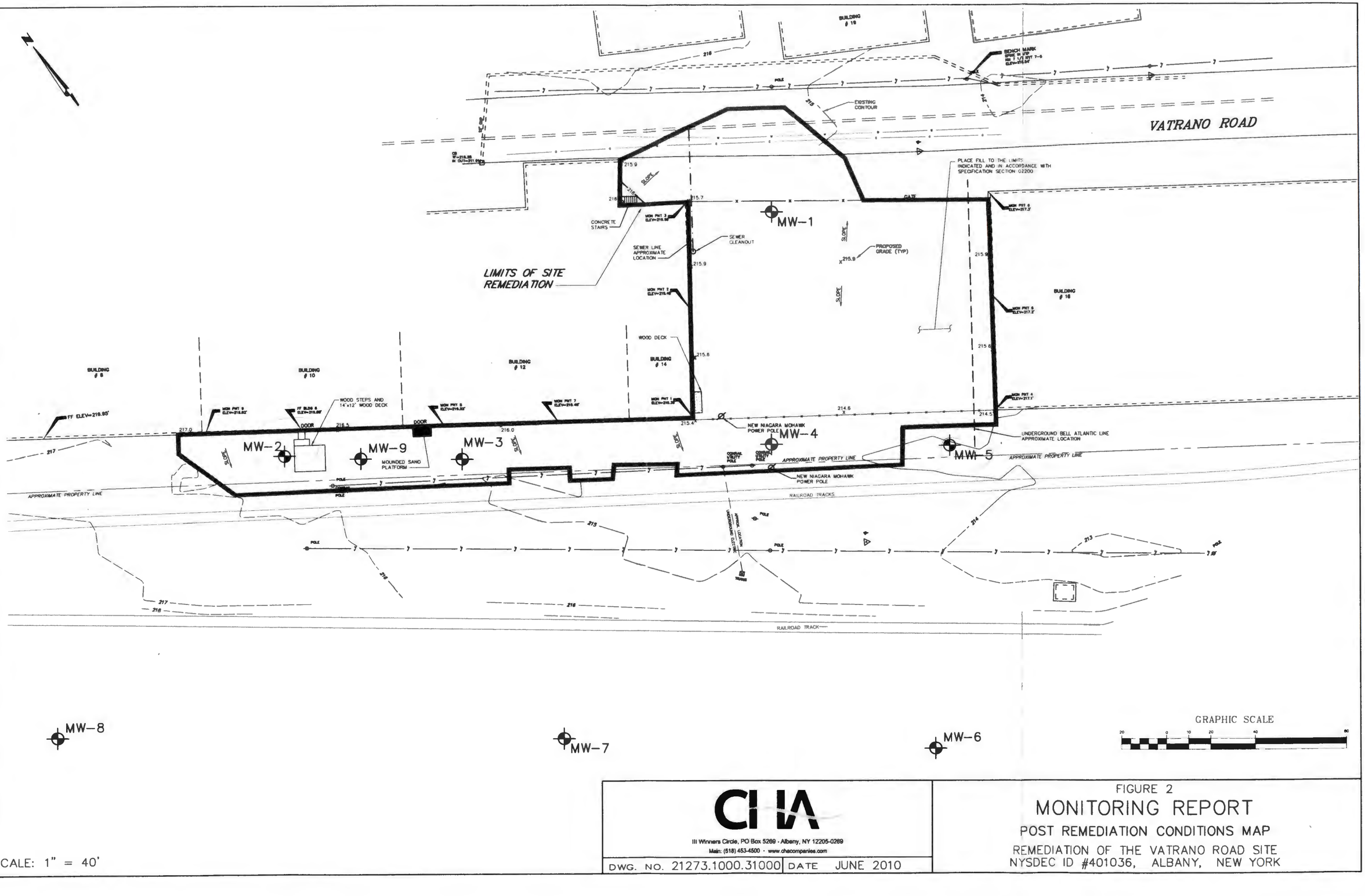
21273.1000.31000 | DATE: JUNE 2010

FIGURE 1

SITE LOCATION MAP

VATRANO ROAD SITE

ALBANY
STATE OF NEW YORK



SCALE: 1" = 40'

CHA

111 Winners Circle, PO Box 5269 - Albany, NY 12205-0269
Main: (518) 453-4500 · www.chacompanies.com

DWG. NO. 21273.1000.31000 | DATE JUNE 2010

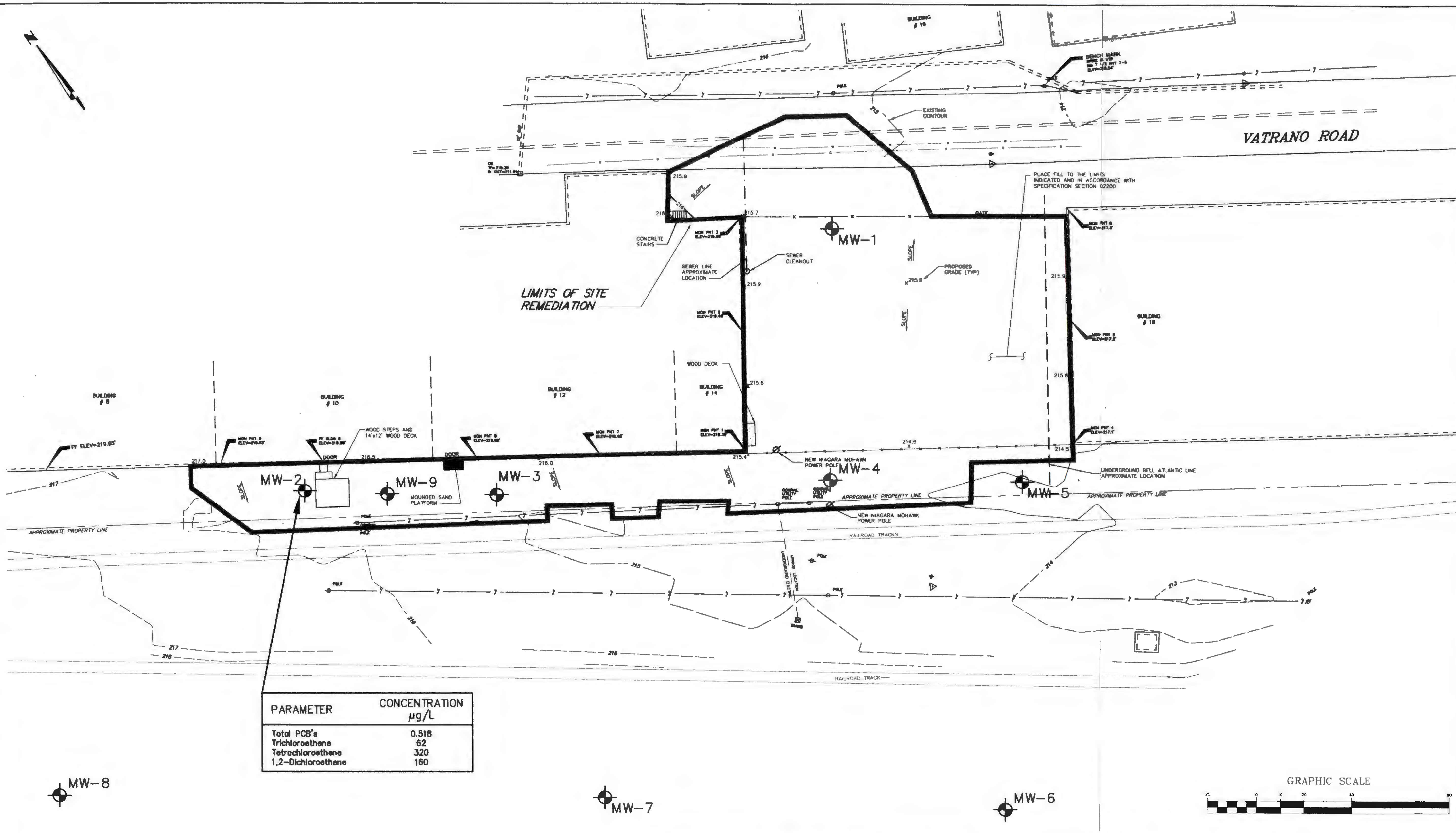
FIGURE 2

MONITORING REPORT

POST REMEDIATION CONDITIONS MAP

REMEDIATION OF THE VATRANO ROAD SITE
NYSDEC ID #401036, ALBANY, NEW YORK

File: M:\7899\ACAD\POSTREM.dwg User: 330 6/8/2005 03:08 PM



PARAMETER	CONCENTRATION µg/L
Total PCB's	0.518
Trichloroethene	62
Tetrachloroethene	320
1,2-Dichloroethene	160

SCALE: 1" = 40'

CHA

III Winners Circle, PO Box 5269 · Albany, NY 12205-0269
Main: (518) 453-4500 · www.chacompanies.com

DWG. NO. 21273.1000.31000 DATE JUNE 2010

FIGURE 3

PERIODIC REVIEW REPORT

CONTAMINANT DISTRIBUTION MAP

REMEDIATION OF THE VATRANO ROAD SITE
NYSDEC ID #401036, ALBANY, NEW YORK

File: M:\2999\ACAD\POSTREM.dwg User: 330 6/8/2005 03:08 PM

LEGEND

202 GROUNDWATER CONTOUR

VATRANO ROAD

LIMITS OF SITE REMEDIATION

PLACE FILL TO THE LIMITS INDICATED AND IN ACCORDANCE WITH SPECIFICATION SECTION 02200

EXISTING CONTOUR

PROPOSED GRADE (TYP)

SEWER LINE APPROXIMATE LOCATION

CONCRETE STAIRS

WOOD STEPS AND 14'x12' WOOD DECK

WOOD DECK

GATE

DOOR

FF ELEV=218.95'

BUILDING # 8

BUILDING # 10

BUILDING # 12

BUILDING # 16

POLE

NEW NIAGARA MOHAWK POWER POLE

CENTRAL UTILITY POLE

UNDERGROUND BELL ATLANTIC LINE APPROXIMATE LOCATION

APPROXIMATE PROPERTY LINE

RAILROAD TRACKS

MW-1 210.69

MW-2 205.25

MW-3 205.58

MW-4 205.29

MW-5 205.13

MW-6 199.04

MW-7 201.01

MW-8 201.58

MW-9 WOUNDED SAND PLATFORM

GRAPHIC SCALE

SCALE: 1" = 40'

CHA

III Winners Circle, PO Box 5269 - Albany, NY 12205-0269

Main: (518) 453-4500 • www.chacompanies.com

DWG. NO. 21273.1000.31000 | DATE JUNE 20101

FIGURE 4

PERIODIC REVIEW REPORT

APRIL 2010 GROUNDWATER CONTOUR MAP

REMEDIATION OF THE VATRANO ROAD SITE
NYSDEC ID #401036, ALBANY, NEW YORK

TABLES

TABLE 1

GROUNDWATER MONITORING WELL DATA & WATER ELEVATIONS

2010 Periodic Review Report
Vatrano Road
Albany, NY

WELL #	Ground Elevation (ft MSL)	Elevation of Screened Interval (ft MSL)	PVC Stickup from ground (ft)	4/13/1998 Water Elev. (ft MSL)	10/28/1998 Water Elev. (ft MSL)	4/7/1999 Water Elev. (ft MSL)	10/25/1999 Water Elev. (ft MSL)	4/5/2000 Water Elev. (ft MSL)	3/23/2001 Water Elev. (ft MSL)	3/21/2002 Water Elev. (ft MSL)	3/19/2003 Water Elev. (ft MSL)	4/27/2004 Water Elev. (ft MSL)	4/4/2005 Water Elev. (ft MSL)	4/27/2006 Water Elev. (ft MSL)	4/25/2007 Water Elev. (ft MSL)	4/15/2008 Water Elev. (ft MSL)	4/22/2009 Water Elev. (ft MSL)	4/27/2010 Water Elev. (ft MSL)
MW-1	215.23	200.23-210.23	2.42	210.21	209.17	210.15	210.00	213.47	210.71	209.81	210.54	210.53	NA	210.89	211.48	211.05	210.50	210.69
MW-2	216.20	198.70-208.70	2.65	207.91	206.87	207.98	208.10	208.45	208.73	207.47	208.23	208.58	209.51	205.98	206.80	208.45	207.65	205.25
MW-3	215.53	198.03-208.03	2.24	207.85	206.57	207.93	208.00	208.35	208.61	207.36	208.12	208.45	209.22	206.31	206.73	208.35	207.57	205.58
MW-4	214.58	198.08-208.08	2.46	207.79	206.82	207.86	207.93	208.24	208.54	207.26	208.07	208.37	209.31	205.94	207.08	208.24	207.48	205.29
MW-5	214.54	197.54-207.54	2.46	207.64	206.78	207.72	207.79	208.10	208.46	207.20	207.90	208.20	209.18	205.99	206.97	208.10	207.37	205.13
MW-6	201.86	186.86-196.86	2.27	200.22	198.43	200.77	200.38	200.98	201.15	198.72	201.28	201.18	200.33	198.56	199.21	200.98	201.03	199.04
MW-7	204.03	189.03-199.03	1.83	201.56	200.86	201.14	202.15	202.96	202.81	202.50	202.81	202.78	203.00	201.08	201.33	202.96	202.76	201.01
MW-8	206.29	191.29-201.29	1.80	202.61	201.89	202.63	202.69	203.61	203.44	204.77	203.44	203.38	203.65	201.43	202.36	203.61	203.27	201.58
MW-9	215.95	164.95-169.95	1.33	205.08	204.48	205.14	205.08	205.60	205.39	204.67	205.20	205.48	205.78	204.11	204.55	205.60	205.20	204.07

Note: On 3/20/06, the existing, damaged MW-1 was abandoned and replaced with a flush mount well.

TABLE 2

LIST OF ANALYSES
2010 Periodic Review Report
Vatrano Road
Albany, NY

	Practical Quantitation Limit (µg/L)	TOGS 1.1.1 Guidance Value[1]
PCBs		
Aroclor 1016	0.065	0.09
Aroclor 1221	0.065	0.09
Aroclor 1232	0.065	0.09
Aroclor 1242	0.065	0.09
Aroclor 1248	0.065	0.09
Aroclor 1254	0.065	0.09
Aroclor 1260	0.065	0.09
VOCs		
1,1,1-Trichloroethane	5 to 10	5
1,1,2,2-Tetrachloroethane	5 to 10	5
1,1,2-trichloro-1,2,2-triflouroethane	5 to 10	NA
1,1,2-Trichloroethane	5 to 10	1
1,1-dichloroethane	5 to 10	5
1,1-Dichloroethene	5 to 10	5
1,2,4-trichlorobenzene	5 to 10	NA
1,2-dibromo-3-chloropropane	10 to 20	0.04
1,2-dibromoethane	5 to 10	0.0006
1,2-dichlorobenzene	5 to 10	3
1,2-Dichloroethane	5 to 10	0.6
1,2-Dichloropropane	5 to 10	1
1,3-dichlorobenzene	5 to 10	3
1,4-dichlorobenzene	5 to 10	3
2-butanone	10 to 20	NA
2-Hexanone	10 to 20	50[2]
4-Methyl-2-Pentanone	10 to 20	NA
Acetone	10 to 20	50[2]
Benzene	5 to 10	1
Bromodichloromethane	5 to 10	50[2]
Bromoform	5 to 10	50[2]
Bromomethane	10 to 20	5
Carbon disulfide	5 to 10	NA
Carbon Tetrachloride	5 to 10	5
Chlorobenzene	5 to 10	5
Chloroethane	10 to 20	5
Chloroform	5 to 10	7
Chloromethane	10 to 20	NA
Cis-1,2-Dichloroethene	5 to 10	5
Cis-1,3-Dichloropropene	5 to 10	0.4
cyclohexane	10 to 20	NA
Dichlorobromomethane	5 to 10	50
dichlorodiflouromethane	10 to 20	5
Ethylbenzene	5 to 10	5
isopropylbenzene	5 to 10	5
Methlyene Chloride	5 to 10	5
methyl acetate	5 to 10	NA
methyl cyclohexane	5 to 10	NA
methyl tert-butyl ether	5 to 10	50
Styrene	5 to 10	5
Tetrachloroethene	5 to 10	5
Toluene	5 to 10	5
Trans-1,2-Dichloroethene	5 to 10	5
Trans-1,3-Dichloropropene	5 to 10	NA
Trichloroethylene	5 to 10	5
trichlorofluoromethane	5 to 10	5
Vinyl Chloride	10 to 20	2
Xylenes, Total	5 to 10	5
Metals		
Lead	0.005	25
Mercury	0.0002	0.7

NOTES:

1. New York State Department of Environmental Conservation, Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1, October 1993 "Ambient Water Quality Standards and Guidance Values")

NA = Guidance/standard value not available

TABLE 3

GROUNDWATER ANALYSIS SUMMARY TABLE
2010 Periodic Review Report
Vatrano Road
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**
Total PCB's [0.09]										
Aug-91	ND	5.180	1.200	ND	ND	ND	ND	ND	ND	ND
Jul-97	NA	3.190	0.680	NA	NA	NA	ND	ND	ND	ND
Apr-98	ND	0.383	ND	ND	17.000	ND	ND	ND	ND	ND
Oct-98	ND	0.3J	ND	ND	1.200	ND	ND	ND	ND	ND
Apr-99	ND	1.390	ND	ND	4.800	ND	ND	ND	ND	ND
Oct-99	ND	0.850	ND	ND	2.000	ND	ND	ND	ND	ND
Apr-00	ND	0.610	ND	ND	0.570	ND	ND	ND	ND	ND
Mar-01	ND	1.011	ND	ND	1.400	ND	ND	ND	ND	ND
Mar-02	ND	1.240	ND	ND	0.720	ND	ND	ND	ND	0.220
Mar-03	ND	1.820	ND	ND	6.270	ND	ND	ND	ND	10.300
Apr-04	ND	0.910	ND	ND	12.300	ND	ND	ND	ND	12.200
Apr-05	NA	0.530E	ND	ND	0.138E	0.103	ND	ND	ND	0.088E
Apr-06	ND	0.341	ND	ND	ND	ND	ND	ND	ND	0.071
Apr-07	ND	0.066	ND	ND	0.68	ND	ND	ND	0.561	ND
Apr-08	ND	0.526	ND	ND	ND	ND	ND	ND	0.152	ND
Apr-09	ND	0.480	ND	ND	ND	ND	ND	ND	ND	ND
Apr-10	ND	0.518	ND	ND	ND	ND	ND	ND	ND	ND
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	99	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
Mar-01	ND	17	ND	ND	ND	ND	ND	ND	ND	ND
Mar-02	ND	37	ND	ND	ND	ND	ND	ND	ND	ND
Mar-03	ND	20	ND	ND	ND	ND	ND	ND	ND	ND
Apr-04	ND	37	ND	ND	ND	ND	ND	ND	ND	ND
Apr-05	NA	22	ND	ND	ND	ND	ND	ND	ND	ND
Apr-06	ND	23	ND	ND	ND	ND	ND	ND	ND	ND
Apr-07	ND	18	ND	ND	ND	ND	ND	ND	ND	ND
Apr-08	ND	51	ND	ND	ND	ND	ND	ND	ND	ND
Apr-09	ND	55	ND	ND	ND	ND	ND	ND	ND	ND
Apr-10	ND	62	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
Mar-01	ND	140	ND	ND	ND	ND	5	ND	ND	ND
Mar-02	ND	220	ND	ND	ND	ND	ND	ND	ND	ND
Mar-03	ND	110	ND	ND	ND	ND	6.2	ND	ND	ND
Apr-04	ND	160	ND	ND	ND	ND	5.3	ND	ND	ND
Apr-05	NA	160	ND	ND	ND	ND	ND	ND	ND	ND
Apr-06	ND	170	ND	ND	ND	ND	ND	ND	ND	ND
Apr-07	ND	120	ND	ND	ND	ND	ND	ND	ND	ND
Apr-08	ND	180	ND	ND	ND	ND	ND	ND	ND	ND
Apr-09	ND	330	ND	ND	ND	ND	ND	ND	ND	ND
Apr-10	ND	320	ND	ND	ND	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
Mar-01	ND	57	9	5	ND	ND	6	ND	ND	ND
Mar-02	ND	160	ND	ND	ND	ND	ND	ND	ND	ND
Mar-03	ND	82	7.5	ND	ND	ND	11	ND	ND	ND
Apr-04	ND	120	9.5	9.1	ND	ND	12	ND	ND	ND
Apr-05	NA	63	ND	5.4	ND	ND	6.3	ND	ND	ND
Apr-06	ND	ND	ND	5.3	ND	ND	5.6	ND	ND	ND
Apr-07	ND	64	ND	ND	ND	ND	6.6	ND	ND	ND
Apr-08	ND	130	ND	ND	ND	ND	5.5	ND	ND	ND
Apr-09	ND	180	ND	7.6	ND	ND	8.3	ND	ND	ND
Apr-10	ND	180	ND	ND	ND	ND	ND	ND	ND	ND
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
Mar-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mar-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mar-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-05	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-10	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
Mar-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mar-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mar-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-05	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-09	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	ND	NA [1]
Apr-10	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	ND	NA [1]
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	179	34.6J	9.6J	41J	ND	ND	16.4J	32.3J
Oct-99	ND	ND	49.2	199	8.4	23.2	ND	ND	13.9	133
Apr-00	ND	ND	ND	21	ND	30	7	ND	ND	22
Mar-01	ND	ND	21	78	11	27	ND	ND	ND	ND
Mar-02	ND	ND	7	ND	ND	ND	ND	ND	ND	ND
Mar-03	ND	ND	ND	384D	ND	ND	ND	ND	ND	ND
Apr-04	ND	ND	ND	21D	7D	9D	ND	ND	ND	6D
Apr-05	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-09	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	ND	NA [1]
Apr-10	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	NA [1]	ND	NA [1]
Vinyl Chloride [2]										
Apr-08	ND	33	ND	ND	ND	ND	ND	ND	ND	ND
Apr-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

[*] 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
D= Filtered sample was non-detect for lead ** Field Duplicate Sample
E= Filtered sample was non-detect for PCBs

1 - Per 3/26/09 conversation with NYSDEC (Gerry Pratt) CHA's request to eliminate this parameter from analysis was granted.

APPENDIX A

SITE PHOTOGRAPHS

Photograph 1. Flush-mount Monitoring Well MW-1 located at northwestern corner of the paved parking area between Buildings #14 and #16.

Photograph 2. Monitoring Well MW-2 located at the west end of the site, north of the rail road tracks.

CHA	**SITE PHOTOGRAPHS**
2010 Periodic Review Report CHA Project #: 21273	**Vatrano Road Site** **Albany, New York**

Photograph 3. Monitoring Well MW-9 located at the west end of the site, north of the rail road tracks.

Photograph 4. Well MW-3 located at the west end of the site, north of the rail road tracks.

CHA	**SITE PHOTOGRAPHS**
2010 Periodic Review Report CHA Project #: 21273	**Vatrano Road Site** **Albany, New York**

Photograph 5. Monitoring Well MW-5 located at the east end of the site, north of the rail road tracks.

Photograph 6. Monitoring Well MW-4 located at the east end of the site, north of the railroad tracks.

CHA	**SITE PHOTOGRAPHS**
2010 Periodic Review Report CHA Project #: 21273	**Vatrano Road Site** **Albany, New York**

Photograph 7. Monitoring Well MW-6 located at the east end of the site, south of the rail road tracks.

Photograph 8. Monitoring Well MW-7 located in the center of the site, south side of the rail road tracks.

CHA	**SITE PHOTOGRAPHS**
2010 Periodic Review Report CHA Project #: 21273	**Vatrano Road Site** **Albany, New York**

Photograph 9: Monitoring Well MW-8 located at the west end of the site, south side of the rail road tracks.

Photograph 10: Photo looking northwest showing paved area between Buildings #14 and #16 is good condition.

Photograph 11: Photo looking southwest showing paved area between Buildings #14 and #16 in good condition.

Photograph 12: Photo showing grass area behind Buildings #12 and #14 in good condition.

CHA	**SITE PHOTOGRAPHS**
2010 Periodic Review Report CHA Project #: 21273	**Vatrano Road Site** **Albany, New York**

APPENDIX B

GROUNDWATER WELL FIELD SAMPLING SUMMARY

TABLE B.1

GROUNDWATER WELL FIELD SAMPLING SUMMARY
APRIL 2010 - ANNUAL MONITORING EVENT
HISTORIC VATRANO ROAD SERVICE CENTER
ALBANY, NEW YORK

Well I.D.	Date	Purge Rate (ml/min)	Purge Amount (Minutes)	Time Elapsed (Minutes)	Temperature (°C)	pH	Conductivity (µS/cm)	ORP/EH (MV)	Turbidity (NTU)	Water Quality
MW-1	28-Apr-10	155	34	0 00	10.67	6.18	1243	9 1	131	
				4 00	10.93	6.05	1263	-3 1	110	
				9.00	11.24	6.01	1340	1	50.5	
				14.00	11 17	6.00	1346	2.2	23.5	0.0 PPM Head Space
				19.00	11.13	5.99	1340	2 4	19	Water was clear, colorless, and odorless
				24.00	11.1	5.98	1325	2.6	13 7	Water had no odor, no sheen and no effervescence
				29.00	11.24	5.94	1297	2.8	7.33	
				34.00	11.32	5.95	1288	1.7	7.16	Turbidity after sampling was 28.3 NTU's
MW-2	28-Apr-10	370	25	5.00	11.07	6.29	1493	-6.7	24 5	0.0 PPM Head Space
				10 00	10.88	6.18	1459	-6.5	5 18	Water was relatively clear with floating black particles
				15.00	1097	6.19	1439	-7 9	2 99	Water had no odor, no sheen and no effervescence
				20.00	10.95	6.17	1453	-7 9	2 47	Turbidity after sampling was 2.62 NTU's.
				25.00	10.92	6.15	1459	-8.6	2.56	
MW-3	28-Apr-10	370	73	3 00	9.86	6.34	770	-17 5	657	
				8.00	9.92	6.36	770	-19 2	367	
				13.00	10.03	6.35	758	-21.1	220	0.0 PPM Head Space.
				18 00	10.01	6 33	744	-20 8	179	
				23.00	9.97	6.26	741	-19 6	122	Water was orange and had no odor, sheen, or
				28.00	10.13	6.21	747	-19 0	116	effervescence.
				33.00	10 22	6.25	746	-19 1	71 9	
				38.00	10.22	6.24	752	-17 3	39 6	Turbidity after sampling was 62.0 NTU's
				43.00	10.19	6.31	760	-300.1	231	
				48.00	10.06	6.02	740	-16 3	32 3	
				53.00	10.19	6.25	760	-40.4	90	
				58.00	10.25	6.28	755	-66.2	95 6	
				63.00	10.3	6 29	772	-66 1	63 2	
				68.00	10.32	6.28	774	-18	58.7	
MW-4	28-Apr-10	350	30	0.00	11.67	6.34	665	-14 3	67 5	0.0 PPM Head Space
				5.00	11 73	6.31	820	-16.8	21.4	
				10.00	11 65	6.26	893	-16.3	8.79	Water had an orange tint with suspended particles.
				15.00	11.74	6.24	951	-16 8	5.89	Water had no odor, no sheen and no effervescence
				20.00	11.9	6.19	963	-16.3	6.72	
				25.00	11.95	6 15	965	-16.1	6.52	Turbidity after sampling was 7 25 NTU's
				30.00	11.92	6.15	970	-16.0	4.92	
MW-5	28-Apr-10	330	30	5.00	12.22	6.25	1898	-16.0	38.4	0.0 PPM Head Space.
				10.00	12.11	6.21	1893	-14.0	37.9	
				15 00	11.92	6.21	1842	-14 4	9 07	Water was clear with black suspended particles
				20.00	11.9	6.19	1799	-15.4	3.57	Water had no odor, no sheen and no effervescence
				25.00	11.85	6.17	1780	-15.4	2 23	Turbidity after sampling was 1 97 NTU's
				30.00	11.83	6.16	1725	-15.3	1 86	
										Duplicate sample MW-10 was collected from this well
MW-6	28-Apr-10	390	40	5.00	9.54	6.25	888	-9.6	757	0.0 PPM Head Space.
				10 00	9.60	6.08	838	-9.3	331	
				15.00	9.65	6.05	820	-10.6	235	Water was cloudy with brown/grey color.
				20.00	9.60	6.15	846	-12.8	120	Water had no odor, no sheen and no effervescence
				25.00	9.76	6.14	806	-13.3	134	
				30.00	9.79	6.14	801	-13.4	109	Turbidity after sampling was 57 NTU's.
				35.00	9.78	6.13	804	-13.5	82	
				40.00	9 79	6.12	810	-13.4	61	
MW-7	28-Apr-10	320	30	5 00	10.26	6.16	798	-3.8	72	0.0 PPM Head Space
				10.00	10.33	6.17	832	-7.3	30	
				15.00	10.38	6.17	850	-8.6	13 9	Water was relatively clear and had no odor, sheen or
				20.00	10.45	6.15	852	-8 7	9.54	effervescence.
				25.00	10.46	6 15	852	-8.7	7.34	
				30.00	10.43	6.13	854	-8.7	7.44	Turbidity after sampling was 16.6 NTU's
MW-8	28-Apr-10	320	37	7.00	9.35	6.24	608	-5 1	66.2	0.0 PPM Head Space.
				12.00	8.88	6.2	647	-6.8	26.7	
				17.00	9.04	6.15	654	-8.8	13.1	Water was relatively clear with black floating particles
				22 00	9.11	6 15	673	-8.4	9.86	Water had no odor, no sheen and no effervescence
				27.00	9.14	6.14	712	-7.9	12.3	
				32.00	9.23	6.16	739	-8.3	12.2	Turbidity after sampling was 8.54 NTU's.
				37.00	9.26	6.16	751	-8.6	8.17	
MW-9	28-Apr-10	400	24	4.00	12.55	6 48	358	-10.6	12 1	0 0 PPM Headspace
				9.00	12.52	6.50	358	-14 4	8 07	Water was clear and colorless with no odor, no sheen and no
				14.00	12.67	6.51	356	-14.8	5.99	effervescence.
				19.00	12.65	6.53	356	-15.1	5.63	Turbidity after sampling was 9.83 NTU's.
				24.00	12.48	6.54	357	-15.0	5.87	

APPENDIX C

PURGEWATER DISPOSAL MANIFESTS

Note: A copy of the manifest for the disposal of the purge water was not available at the time this report was prepared. However, when it becomes available, it will be submitted under separate cover to be included as Appendix C.

APPENDIX D

CHAIN OF CUSTODY

Adirondack Environmental Services Inc.

Experience is the solution

314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

AES Work Order # 100429004

A full service analytical research laboratory offering solutions to environmental concerns

Client Name:	Address:	
CHA	3 Winners Cir Albany NY 12205	
Send Report To: Sarah Newell	Project Name (Location): Vitians Rd	Samplers: (Names) Scott R[illegible] / J[illegible] Morey
Client Phone No: 453-4500	Client Fax No: 453-4773	PO Number: 21273 1000 [illegible]	Samplers: (Signature) [signature]

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	A/P	Matrix	Comp	Grab	Number of Cont's	Analysis Required
001	MW-1	4 28 10	940	A	GW		✓	3	TCL VOCs (8260)
002	MW-2	↓	1040	A	↓		✓	3	+ PCBs (EPA 608)
003	MW-3		12[illegible]	P			✓	3	
004	MW-4		130	P			✓	3	Pb, Hg Metals -
005	MW-5		230	P			✓	3	Total)
006	MW-6		7[illegible]	P			✓	3	MW-9 only
007	MW-7		5[illegible]	P			✓	3	
008	MW-8		600	P			✓	3	
009	MW-9		1100	A			✓	4	
010	MW-10	↓	3[illegible]	P	↓		✓	3	
011	TRIP BLANK	NA	NA		LW		[illegible]	1	
				A/P					
				A/P					
				A/P					

Shipment Arrived Via: FedEx UPS (Client) AES Other:________

CC Report To / Special Instructions/Remarks:
- Analyze each sample for TCL VOC (8260) and PCBs (EPA 608)
- In addition, analyze MW-9 for Pb Hg (total metals)

Turnaround Time Request:
☐ 1 Day ☐ 3 Day ☒ Normal
☐ 2 Day ☐ 5 Day

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]		
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by:	Date/Time
	J. Michaels	4/29/10 9:15 AM

TEMPERATURE	PROPERLY PRESERVED	RECEIVED WITHIN HOLDING TIMES
Ambient or (Chilled)	(Y) N	(Y) N
Notes: 1	Notes:	Notes:

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

Adirondack Environmental Services, Inc.

APPENDIX E

GROUNDWATER LABORATORY ANALYTICAL DATA

Adirondack Environmental Services, Inc

Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

May 11, 2010

Sarah Newell
Clough Harbour & Associates
3 Winners Circle
PO Box 5269
Albany, NY 12205-0307

TEL: (518) 453-8749
FAX: (518) 453-4773

Work Order No: 100429004

RE: Analysis of Groundwater
Vatrano Rd

Dear Sarah Newell:

Adirondack Environmental Services, Inc received 11 samples on 4/29/2010 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Tara Daniels
Laboratory Manager

ELAP#: 10709
AIHA#: 100307

RECEIVED
MAY 12 2010

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-1
Collection Date: 4/28/2010
Lab Sample ID: 100429004-001
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: **KF**
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 1:31:20 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 1:31:20 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 1:31:20 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 1:31:20 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 1:31:20 PM
Aroclor 1254	< 0.065	0.065		µg/L	1	4/30/2010 1:31:20 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 1:31:20 PM
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
Bromomethane	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
Chloroethane	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Acetone	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
2-Butanone	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
2-Hexanone	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-1
Collection Date: 4/28/2010
Lab Sample ID: 100429004-001
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/10/2010 1:22:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Cyclohexane	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/10/2010 1:22:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 1:22:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-2
Collection Date: 4/28/2010
Lab Sample ID: 100429004-002
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: **KF**
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 1:48:04 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 1:48:04 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 1:48:04 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 1:48:04 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 1:48:04 PM
Aroclor 1254	0.518	0.065		µg/L	1	4/30/2010 1:48:04 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 1:48:04 PM
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
Bromomethane	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
Vinyl chloride	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
Chloroethane	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
Methylene chloride	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Acetone	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
Carbon disulfide	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,1-Dichloroethene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,1-Dichloroethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
trans-1,2-Dichloroethene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
cis-1,2-Dichloroethene	160	10		µg/L	2	5/10/2010 1:50:00 PM
Chloroform	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,2-Dichloroethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
2-Butanone	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
1,1,1-Trichloroethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Carbon tetrachloride	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Bromodichloromethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,2-Dichloropropane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
cis-1,3-Dichloropropene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Trichloroethene	62	10		µg/L	2	5/10/2010 1:50:00 PM
Dibromochloromethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,1,2-Trichloroethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Benzene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
trans-1,3-Dichloropropene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Bromoform	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
4-Methyl-2-pentanone	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
2-Hexanone	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
Tetrachloroethene	320	10		µg/L	2	5/10/2010 1:50:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-2
Collection Date: 4/28/2010
Lab Sample ID: 100429004-002
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
1,1,2,2-Tetrachloroethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Toluene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Chlorobenzene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Ethylbenzene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Styrene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
m,p-Xylene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
o-Xylene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Methyl tert-butyl ether	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Dichlorodifluoromethane	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
Methyl Acetate	< 10	10	S	µg/L	2	5/10/2010 1:50:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Cyclohexane	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
Trichlorofluoromethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Methyl Cyclohexane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,2-Dibromoethane	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,3-Dichlorobenzene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
Isopropylbenzene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,2-Dichlorobenzene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,4-Dichlorobenzene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM
1,2-Dibromo-3-chloropropane	< 20	20		µg/L	2	5/10/2010 1:50:00 PM
1,2,4-Trichlorobenzene	< 10	10		µg/L	2	5/10/2010 1:50:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-3
Collection Date: 4/28/2010
Lab Sample ID: 100429004-003
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: KF
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 12:57:45 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 12:57:45 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 12:57:45 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 12:57:45 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 12:57:45 PM
Aroclor 1254	< 0.065	0.065		µg/L	1	4/30/2010 12:57:45 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 12:57:45 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
Bromomethane	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
Chloroethane	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Acetone	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
2-Butanone	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
2-Hexanone	< 10	10		µg/L	1	5/7/2010 6:02:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-3
Collection Date: 4/28/2010
Lab Sample ID: 100429004-003
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **ML**
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/7/2010 6:02:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Cyclohexane	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/7/2010 6:02:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/7/2010 6:02:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0	S	µg/L	1	5/7/2010 6:02:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-4
Collection Date: 4/28/2010
Lab Sample ID: 100429004-004
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: **KF**
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 1:14:31 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 1:14:31 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 1:14:31 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 1:14:31 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 1:14:31 PM
Aroclor 1254	< 0.065	0.065		µg/L	1	4/30/2010 1:14:31 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 1:14:31 PM
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
Bromomethane	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
Chloroethane	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Acetone	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
2-Butanone	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
2-Hexanone	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-4
Collection Date: 4/28/2010
Lab Sample ID: 100429004-004
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/10/2010 2:49:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Cyclohexane	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/10/2010 2:49:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 2:49:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-5
Collection Date: 4/28/2010
Lab Sample ID: 100429004-005
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: **KF**
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 2:38:24 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 2:38:24 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 2:38:24 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 2:38:24 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 2:38:24 PM
Aroclor 1254	< 0.065	0.065		µg/L	1	4/30/2010 2:38:24 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 2:38:24 PM
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
Bromomethane	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
Chloroethane	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Acetone	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
2-Butanone	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
2-Hexanone	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-5
Collection Date: 4/28/2010
Lab Sample ID: 100429004-005
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/10/2010 3:18:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Cyclohexane	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/10/2010 3:18:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:18:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-6
Collection Date: 4/28/2010
Lab Sample ID: 100429004-006
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/10/2010 3:47:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Cyclohexane	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-6
Collection Date: 4/28/2010
Lab Sample ID: 100429004-006
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: **KF**
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 2:55:10 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 2:55:10 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 2:55:10 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 2:55:10 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 2:55:10 PM
Aroclor 1254	< 0.065	0.065		µg/L	1	4/30/2010 2:55:10 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 2:55:10 PM
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
Bromomethane	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
Chloroethane	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Acetone	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
2-Butanone	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/10/2010 3:47:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/10/2010 3:47:00 PM
2-Hexanone	< 10	10		µg/L	1	5/10/2010 3:47:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-7
Collection Date: 4/28/2010
Lab Sample ID: 100429004-007
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: **KF**
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 3:11:56 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 3:11:56 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 3:11:56 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 3:11:56 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 3:11:56 PM
Aroclor 1254	< 0.065	0.065		µg/L	1	4/30/2010 3:11:56 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 3:11:56 PM
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
Bromomethane	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
Chloroethane	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Acetone	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
2-Butanone	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
2-Hexanone	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-7
Collection Date: 4/28/2010
Lab Sample ID: 100429004-007
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/10/2010 4:16:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Cyclohexane	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/10/2010 4:16:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:16:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-8
Collection Date: 4/28/2010
Lab Sample ID: 100429004-008
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: **KF**
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 3:27:31 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 3:27:31 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 3:27:31 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 3:27:31 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 3:27:31 PM
Aroclor 1254	< 0.065	0.065		µg/L	1	4/30/2010 3:27:31 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 3:27:31 PM
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
Bromomethane	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
Chloroethane	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Acetone	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
2-Butanone	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
2-Hexanone	< 10	10		µg/L	1	5/10/2010 4:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-8
Collection Date: 4/28/2010
Lab Sample ID: 100429004-008
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/10/2010 4:45:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Cyclohexane	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/10/2010 4:45:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 4:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-9
Collection Date: 4/28/2010
Lab Sample ID: 100429004-009
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: **KF**
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 3:44:18 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 3:44:18 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 3:44:18 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 3:44:18 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 3:44:18 PM
Aroclor 1254	< 0.065	0.065		µg/L	1	4/30/2010 3:44:18 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 3:44:18 PM
ICP METALS E200.7 (Prep: SW3010A - 4/30/2010)						Analyst: **KH**
Lead	< 0.005	0.005		mg/L	1	5/10/2010 2:31:00 PM
MERCURY E245.1 (Prep: E245.1 - 5/3/2010)						Analyst: **SM**
Mercury	< 0.0002	0.0002		mg/L	1	5/3/2010
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
Bromomethane	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
Chloroethane	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Acetone	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
2-Butanone	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-9
Collection Date: 4/28/2010
Lab Sample ID: 100429004-009
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
2-Hexanone	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/10/2010 5:14:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Cyclohexane	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/10/2010 5:14:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:14:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-10
Collection Date: 4/28/2010
Lab Sample ID: 100429004-010
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS E608 (Prep: E608 - 4/30/2010)						Analyst: **KF**
Aroclor 1016	< 0.065	0.065		µg/L	1	4/30/2010 4:01:03 PM
Aroclor 1221	< 0.065	0.065		µg/L	1	4/30/2010 4:01:03 PM
Aroclor 1232	< 0.065	0.065		µg/L	1	4/30/2010 4:01:03 PM
Aroclor 1242	< 0.065	0.065		µg/L	1	4/30/2010 4:01:03 PM
Aroclor 1248	< 0.065	0.065		µg/L	1	4/30/2010 4:01:03 PM
Aroclor 1254	< 0.065	0.065		µg/L	1	4/30/2010 4:01:03 PM
Aroclor 1260	< 0.065	0.065		µg/L	1	4/30/2010 4:01:03 PM
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
Bromomethane	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
Chloroethane	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Acetone	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
2-Butanone	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
2-Hexanone	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: MW-10
Collection Date: 4/28/2010
Lab Sample ID: 100429004-010
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/10/2010 5:43:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Cyclohexane	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/10/2010 5:43:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 5:43:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: Trip Blank
Collection Date: 4/28/2010
Lab Sample ID: 100429004-011
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
Bromomethane	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
Chloroethane	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Acetone	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
Carbon disulfide	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Chloroform	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
2-Butanone	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Bromoform	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
2-Hexanone	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Styrene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Dichlorodifluoromethane	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
Methyl Acetate	< 5.0	5.0	S	µg/L	1	5/10/2010 6:12:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *11-May-10*

CLIENT: Clough Harbour & Associates
Work Order: 100429004
Reference: Analysis of Groundwater / Vatrano Rd
PO#:

Client Sample ID: Trip Blank
Collection Date: 4/28/2010
Lab Sample ID: 100429004-011
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: **MG**
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Cyclohexane	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Methyl Cyclohexane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
Isopropylbenzene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	5/10/2010 6:12:00 PM
1,2,4-Trichlorobenzene	< 5.0	5.0		µg/L	1	5/10/2010 6:12:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services Inc.
Experience is the solution

314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

AES Work Order # 100429004

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: CHA	Address: 3 Winners Circle Albany NY 12205	
Send Report To: Sarah Newell	Project Name (Location): Veterans Rd	Samplers: (Names) Scott Rosen / J. Morey
Client Phone No: 453-4500 / Client Fax No: 453 4793	PO Number: 21273 1000 [illegible]	Samplers: (Signature) [signature]

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	A/P	Matrix	Comp	Grab	Number of Cont's	Analysis Required
001	MW-1	4-28-10	9:40	A	GW		✓	3	TCL VOCs (8260)
002	MW-2	↓	10:40	A	↓		✓	3	& PCBs (EPA 608)
003	MW-3		12:[illegible]	P			✓	3	
004	MW-4		1:40	P			✓	3	Pb, Hg, Metals -
005	MW-5		2:30	P			✓	3	Total)
006	MW 6		7:[illegible]	P			✓	3	MW 9 only
007	MW-7		5:[illegible]	P			✓	3	
008	MW-8		6:00	P			✓	3	
009	MW-9		11:[illegible]	A			✓	4	
010	MW 10		3:35	P	↓		✓	3	
011	TRIP BLANK	NA	NA		LW		✓	1	
				A P					
				A P					
				A P					

Shipment Arrived Via: FedEx UPS (Client) AES Other:______

Turnaround Time Request:
- ☐ 1 Day ☐ 3 Day ☒ Normal
- ☐ 2 Day ☐ 5 Day

CC Report To / Special Instructions/Remarks:
- Analyze each sample for TCL VOC (8260) and PCBs (EPA 608)
- In addition, analyze MW 9 for Pb, Hg, (total metals)

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]		
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by: J. Michaels	Date/Time 4/29/10 9:15A

TEMPERATURE	PROPERLY PRESERVED	RECEIVED WITHIN HOLDING TIMES
Ambient or (Chilled)	(Y) N	(Y) N
Notes: 1	Notes:	Notes:

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

Adirondack Environmental Services Inc.

Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.,** nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.,** its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

(g) Payments by credit card are subject to a 3% additional charge.