2011 Third Quarter Groundwater Monitoring Report
July- September 2011
Claremont Polychemical Corporation Site
505 Winding Road
Old Bethpage, Nassau County, NY 11804
Site Code: 130015
WA# D006130-19

Prepared for:

New York State Department of Environmental Conservation
Division of Environmental Remediation
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Submitted: March 28, 2012

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July-September 2011
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Old Bethpage, New York 11804

Report Submittal Date: March 28, 2012
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CERTIFICATION

I, Adam Fox, certify that I am currently a Qualified Environmental Professional as defined in 6 Part NYCRR Part 375 and that this report, 2011 Third Quarter Groundwater Monitoring Report, was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER -10).

Environmental Contractor: HRP Engineering, P.C.

By: 

Adam Fox, P.E.

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Old Bethpage, New York 11804

1.0 INTRODUCTION

HRP Engineering, P.C. is pleased to submit this report containing groundwater quality data, discussions and data deliverables related to the Third Quarter 2011 (July – September 2011) groundwater monitoring event conducted at the Claremont Polychemical Corporation Site (hereinafter referred to as the "Site"). The groundwater monitoring event and the preparation of this deliverable are part of the routine groundwater monitoring program being conducted at the Site. This report represents the third quarterly monitoring period for 2011. This report has been prepared for submittal to the New York State Department of Environmental Conservation (NYSDEC) and includes the following:

- Brief overview of historical site activities;
- Discussion of On-site treatment System;
- Brief description of the scope of the field activities;
- Groundwater Contours;
- Shallow, intermediate, and deep groundwater tetrachloroethylene (PCE) and trichloroethylene (TCE) contaminant concentrations;
- Maximum groundwater PCE and TCE contaminant concentrations;
- Brief discussion of the groundwater quality data;
- Comparison of data from this monitoring period to data from previous periods; and
- Groundwater Well Sampling Forms.

2.0 SITE BACKGROUND

2.1 Site Overview

The Claremont Polychemical Corporation, a former manufacturer of pigments for plastics and inks, coated metal flakes, and vinyl stabilizers, operated on-site from 1966 to 1980. The Site was proposed for inclusion on the Environmental Protection Agency (EPA) National Priorities List in October 1984 and was listed in June 1986. A comprehensive Remedial Investigation/ Feasibility Study (RI/FS) for the entire site was initiated in March 1988 by the EPA. Under this RI/FS, EPA sampled the surface and subsurface soil, the groundwater, underground storage tanks, and the building. The EPA RI/FS reports were released to the public in August 1990. The EPA RI/FS findings indicated that on-Site soils contaminated with tetrachloroethylene (PCE), located in the former "spill area", constituted a potential threat to groundwater resources. A comprehensive remedy for the Site was completed and documented in several EPA Records of Decisions (ROD) issued in 1989-1990. The Site was divided into six operable units (OU). Each OU had specific remedial activities pursuant to that OU that needed to be completed. Operable Unit No.4 (OU IV) is designated “Remedial Program” and involves the treatment of the on-site volatile organic compounds (VOC) that have contaminated the groundwater via a pump and treat system with air stripping/carbon absorption.

A groundwater collection, treatment and injection system was installed on-site by the EPA and Army Corp of Engineers (ACOE) to control OU IV. Full-scale operation of the groundwater remedial system began in February 2000, reportedly pumping 470 gallons per day. SAIC Inc. operated and maintained the treatment facility from 2000 to June 2011. During that period SAIC monitored the treatment system operation on a regular basis by collecting system discharge and quarterly groundwater samples. In June 2011, the operation of the system was relinquished from the ACOE/EPA to the NYSDEC and subsequently the NYSDEC retained HRP Engineering to operate the system.

During the turnover of operations from the EPA to the NYSDEC, the NYSDEC requested copies of reports generated during the EPA’s operations of the treatment system including quarterly groundwater sampling data from SAIC, EPA Region 2 and the AEOC. Based upon data that was received during the transfer of operators, it was determined that SAIC collected quarterly groundwater sampling data. Previous groundwater monitoring reports were not available for HRP’s review. Therefore the historical groundwater data was reviewed by HRP and incorporated into this report.

2.2 Location

The site is located on a 9.5-acre parcel located in an industrial section of Old Bethpage, Nassau County, New York (see Figure 1 for location). The property has one large two-story building, covering approximately 35,000 square feet (the former processing plant) and a smaller water treatment building. The site lies

approximately 800 feet east of the border between Nassau and Suffolk County and the site is accessed via Winding Road on the property's western border. Adjacent properties include:

South and Southeast - Bethpage State Park and a golf course;
East - State University of New York-Farmingdale Campus;
West - Oyster Bay Solid Waste Disposal Complex; and
North - Commercial and light industrial.

The Oyster Bay Solid Waste Disposal Complex is a NYSDEC Superfund Site with the Town of Oyster Bay as the responsible party. The Nassau County Fireman's Training Center, which has also contributed to soil and groundwater contamination in the area, is located approximately 500 feet south of the Oyster Bay Solid Waste Disposal Complex. The Oyster Bay Solid Waste Disposal Complex and Fireman's Training Center have groundwater extraction and treatment systems in operation. In addition, the golf course has a number of pump/irrigation wells, which are used for watering their fairways. The closest residences are approximately one-half mile from the site immediately west of the Old Bethpage Landfill Superfund site. The nearest public supply well is located 3,500 feet northwest of the site and nearly 47,000 people are drawing water from private-use wells located within three miles of the site.

2.3 Site History

According to the "Five - Year Review Report for Claremont Polychemical Corporation" prepared by EPA Region 2, dated September 2008, the Claremont Polychemical Corporation manufactured pigments for plastics and inks, coated metal flakes, and vinyl stabilizers operated from 1966 to 1980. During its operation, Claremont disposed of liquid waste in three leaching basins and deposited solid wastes and treatment sludges in drums or in old, aboveground metal tanks. The principal wastes generated were organic solvents, resins and wash wastes (mineral spirits). Located inside the process building were a solvent recovery system (steam distillation), two pigment dust collectors and a sump. To the west of the building, there were five concrete treatment basins, each with a capacity of 5,000 gallons, which contained sediments and water. Six aboveground tanks, three of which contained wastes, were located east of the process building. Other features included an underground tank farm, construction and demolition debris, dry wells and a water supply well.

2.4 Site Geological Setting

The "Claremont Polychemical Superfund Site Long-term Groundwater Monitoring Old Bethpage, New York" report prepared by SAIC and dated December 2001 reported that site-specific subsurface investigations from a variety of soil borings and monitoring/injection/extraction well installations to a maximum depth of 250 feet below ground surface (bgs) identified "well-stratified

fine to medium sand with silt lenses, abundant peat laminae, and discontinuous sand layers" (Ebasco, 1990). Borings in the northern portion of the site also encountered numerous interbedded silt and clay horizons. A comparison of site logs with municipal supply well logs to the north suggest that the site is located within a transitional area between the predominately sandy southern portion of the Magothy Formation and an interbedded clayey-sand portion to the north (Ebasco, 1990).

Further the report indicated that historically groundwater flow is generally to the south-southeast with historical gradients ranging from 0.001-0.002 ft/ft and horizontal flow velocities of 0.43 ft/day or 157 ft/yr (Ebasco, 1990). Groundwater elevations are depressed in the areas of the extraction wells. Hydraulic permeability (slug) tests performed during the EPA RI calculated hydraulic conductivities ranging between 200 and 400 gdp/ft^2 which is significantly lower than historical data from actual pump tests. The vertical component of flow was historically less than 0.5 ft/ft and lacked any consistency or pattern. It was thus determined to be insignificant with respect to contaminant movement (Ebasco, 1990).

The report also indicated that the direction of groundwater flow from the western portion of the site is to the east, south and southeast and reverses on the eastern and southeastern portions of the site. The gradient was reported to be approximately 0.024 ft/ft as measured between monitoring wells SW-1 and SW-2 over a distance of approximately 500 ft. The semi-radial component of flow and steep gradient are indicative of the groundwater extraction system's capture zone. However, groundwater levels were recorded from five sets of clustered monitoring wells or 13 data points in and around the source area. Hence, the report concluded that the capture zone is not realistically defined as it tends to center around monitoring well cluster SW-2/DW-2 instead of the three extraction wells slightly to the southeast.

3.0 GROUNDWATER TREATMENT SYSTEM

The EPA's construction of the Claremont Polychemical Corp. Site pump-and-treat system began in 1997 and the system went into full-scale operation in February 2000. A description of the groundwater treatment system and a review of its effectiveness are provided below.

3.1 Groundwater Treatment System Description

The system which is designed to treat metals, organic contaminants and provide final pH adjustment consists of an extraction system, above-ground treatment, and a reinjection system. Each of the system components is discussed below.

Extraction System

The groundwater collection system consists of three extraction wells (EXT-1, EXT-2, and EXT-3) installed approximately 150 feet apart south of the site oriented in a southwest-northeast line. The wells are screened from approximately 60 feet mean sea level (MSL) (just below the water table) to -30 feet MSL and are outfitted with 10 horsepower pumps controlled by level controllers located in the Equalization Tank. Each well is capable of pumping up to 200 gpm individually. However, when they are all on, EXT-1, EXT-2, and EXT-3 respectively extract 190 gpm, 188 gpm, and 175 gpm for a total of approximately 553 gpm. Because the wells are off part of the time as controlled by the level in the equalization tank, the average flow rate over the course of a month is approximately 350 to 390 gpm. This average flow rate translates to approximately 500,000 to 560,000 per day which meets the onsite remedy goal of treating 500,000 gallons per day.

It is important to note that in April/May 2011, SAIC replaced the Equalization Tank level controllers, which controlled the extraction well pumps, with level transducers located in the extraction wells. The level transducers allow the extraction pumps to maintain a static water level in the extraction wells and a more consistent capture zone.

Treatment System

Water from the extraction system enters a 60,000-gallon equalization tank situated adjacent to the treatment building. Water from the equalization tank flows through two parallel metals-removal trains that are each rated for 250 gpm. Each train includes a reaction tank, a flocculation tank, a clarifier, and a filter and is followed by air-stripper feed tanks. These feed tanks send the water through a single packed tower air stripper rated at an average rate of 500 gpm and then through parallel liquid phase carbon units each rated at 250 gpm. The air emissions from the air stripper are treated with vapor phase carbon. In addition to removing metals and VOCs from the extracted water, the treatment system also raises the pH of the extracted water from pH 5, which is the background pH for groundwater in the area, to between pH 6.5 and 8.5. The treated water is then stored in two 42,000-gallon vessels before reinjection to

the subsurface via four injection wells and/or two infiltration galleries. Flow to the injection wells and galleries, located on the adjacent SUNY Farmingdale campus, is controlled by a butterfly valve. The wells are equipped with high-level alarms and are regularly gauged, however the infiltration galleries are not equipped with level sensors or alarms.

After the first nine months of operation the addition of oxidizing chemicals (potassium permanganate) to the metals removal system was discontinued as the influent to the plant already met discharge standards for metals. Water continues to flow through the metals portion of the treatment system.

The plant is manned by two operators working 40- to 50-hour weeks, and an autodialer is installed to contact the operators in case of plant alarms. The operators typically responds to alarms within 30 minutes.

System Operating Permits

Water Permit

The plant was issued a water discharge permit dated January 1, 1998. According to Brian Baker, NYSDEC Section Chief, Western Section, Bureau of Water Permits the permit was extended to the end of calendar year 2013, therefore a permit renewal application needs to be submitted to the NYSDEC Bureau of Water permits by July 1, 2013 in order to review the application and complete a permit reauthorization. It is important to note that the NYSDEC Bureau of water does not have regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. Therefore, Effluent Limitations and Monitoring Requirements outline in the permit must be submitted to the NYSDEC Division of Environmental Remediation, Remedial Bureau E.

Air Permit

No air permit is required for the system operation, in particular, 6 NYCRR Part 375-1.7 states that “no permit is required when the substantive compliance is achieved as indicated by the NYSDEC approval of the workplan”. Based on a review of the information pertaining to the treatment system, VOC air emissions from the treatment system should be negligible, therefore substantive requirements of an air permit would be achieved and no air permit would be required.

3.2 System Evaluation Performance

3.2.1 Flow Rate

The volume of treated water discharged by the treatment plant to the injection well field is determined daily from readings of the magnetic flow meter on the plant effluent line. The total volume of treated water discharged each month is provided below:

Time and Date	Total Flow Month/ Percent of Monthly Target Flow	Ave Daily Flow/ Ave Flow per Minute	Total Water Treated Operating Year (Starting 6/1/11)
July – 0600 hrs 7/1/11 to 0600 hrs 8/1/11	14,743,495 / 99	475,597 / 330	29,426,400
August - 0600 hrs 8/1/11 to 0600 hrs 9/1/11	15,371,276 / 103	495,848 / 344	45,232,890
September - 0600 hrs 9/1/11 to 0600 hrs 10/1/11	15,622,346 /108	541,236 / 376	60,855,236

The flow to the injection system during the monitoring period was as follows.

Month	Injection Well System	Flow Average (gpm)	Volume Discharged (gallons)
July 2011	IW-1	89	3,973,480
	IW-2	78	3,470,190
	IW-3	102	4,566,780
	IW-4	77	3,426,850
	System	346	15,437,300
August 2011	IW-1	94	4,203,490
	IW-2	86	3,856,300
	IW-3	108	4,808,620
	IW-4	70	3,115,760
	System	358	15,984,170
September 2011	IW-1	89	3,848,149
	IW-2	93	4,023,889
	IW-3	109	4,694,329
	IW-4	81	3,500,998
	System	372	16,067,365

Flow to infiltration galleries IG-1 and IG-3 is restricted so that flow to IW-1 and IW-3 is maximized. Both galleries are draining adequately. The plant's effluent discharge flow is maximized and is limited by injection pump system capacity.

3.2.2 Treatment System Contaminant Removal

To evaluate the treatment system's contaminant removal rate, HRP reviewed available treatment system inlet (Charts 1 and 2) and effluent analytical results from quarterly O&M sampling. In summary, five treatment system inlet samples were collected at the equalization tank inlet, during the review period, each on August 17th. Of the five inlet samples collected on that that day, only two of the samples exhibited

contaminants above the laboratory detection limit. The collected samples exhibited the following concentrations:

- Manganese – 249 µg/l
- Barium - 98.6 µg/l
- Tetrachloroethylene - 5.6 µg/l (exceeds NYSDEC class GA standard of 5 µg/l)
- Trichloroethylene – 95 µg/l (exceeds NYSDEC class GA standard of 5 µg/l)

When the contaminant inlet concentrations are compared with the effluent concentrations (Manganese - 4.6 µg/l, Barium - 80.4 µg/l, Tetrachloroethylene - 5.0 µg/l, and Trichloroethylene – 5.0 µg/l), and utilizing the monthly flow-rates of 14,743,495 for July, 15,371,276 for August and 15,622,346 for September, the following contaminant removal rates were calculated for the third quarter:

- Barium - 3.17 Kg
- Manganese - 42.6 Kg
- Tetrachloroethylene - 0.1 Kg
- Trichloroethylene - 15.7 Kg

3.2.3 System Discharge Monitoring

Effluent data for select VOC compounds (PCE, TCE, and 1,1-DEC) and metals (Iron and Manganese) were analyzed to evaluate compliance with established effluent discharge limits. Charts 3a, 3b, 3c, and 4 show that the effluent concentrations remain below permissible levels.

4.0 GROUNDWATER MONITORING PROGRAM

From July 22 to August 1, 2011 HRP sampled a total of 44 monitoring wells and extraction wells (41 monitoring wells and 3 extraction wells) located both on- and off-site. On-site monitoring wells included DW-1, DW-2, EW-5, EW-7C, EW-7D, EW-8D, EW-9D, and SW-1. Off-site wells included BP-3A, BP-3B, BP-3C, EW-1A, EW-1B, EW-1C, EW-2A, EW-2B, EW-2C, EW-2D, EW-3A, EW-3B, EW-3C, EW-4A, EW-4B, EW-4C, EW-4D, EW-6A, EW-6C, EW-10C, EW-11D, EW-12D, EW-13D, EW-14D, LF-02, MW-6D, MW-8A, MW-8B, MW-8C, MW-10B, MW-10C, MW-10D, WT-01, EXT-1, EXT-2, and EXT-3 (EXTs are extraction wells). The monitoring well and extraction well locations are depicted in Figure 2a. A description of the groundwater sampling event is provided below.

4.1 Hydrological Data

Prior to sampling, static groundwater levels were measured at 40 locations on July 20, 2011. Four wells were not sounded due to wasps nests in the well caps. Depths to groundwater ranged from 41.25 ft (EW-14D) to 99.78 ft (EW-11D) below ground surface (bgs). Overall, groundwater elevations and flow directions (Figure 2b) were consistent with previous data.

4.2 Groundwater Sample Collection

To collect representative groundwater samples, the wells were purged using standard EPA low flow sampling equipment and procedures. Purging required removing water from the well at a rate of at least 250 milliliters per minute, but not greater than 1 liter per minute for a sufficient length of time for water quality parameters to stabilize (i.e. pH, Specific Conductivity, Temperature, Dissolved Oxygen, Oxidation/Reduction Potential, and Turbidity) within a parameter specific control range. Drawdown did not exceed ten percent of the standing water column. Sampling commenced immediately after purging, without adjusting the flow rate or water intake depth. Provided below is a description of the procedures utilized to collect groundwater samples:

- All field instruments were calibrated at the beginning of each work day.
- Monitoring well covers were unlocked and carefully removed to avoid any foreign material enter the well.
- The water level was measured below the top of casing using an electronic water level indicator. With knowledge of the total depth of the well, the volume of water in the well was calculated. The tape and probe of the water level indicator was cleaned with an Alconox and water soaked paper towel while reeling in.
- Dedicated Teflon lined polyethylene tubing and pump was installed into the well and the end of the pump was set to approximately the midpoint of the screen interval inside the well.
- Each well has a dedicated bladder pump at monitoring well locations and dedicated Grundfos pump at extraction well locations. All wells except

BP-3A, EW-6A, EW-6C, LF-2, MW-6D, MW-8A, MW-8B, MW-8C, MW-10B, MW-10C, MW-10D, and WT-01 have dedicated pumps.

- The tubing was attached to a flow-through cell water quality monitor (YSI 600xl).
- The pump was turned on and set to a relatively low discharge rate (less than 1-liter per minute) and drawdown rate was monitored using a water level indicator.
- The wells were purged while collecting water quality measurements (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Oxidation/Reduction Potential, and Turbidity) and water level measurements were collected every 3 to 5-minutes.
- After water quality conditions stabilized and well purging was completed, a groundwater sample was collected into the appropriate containers.
- The VOC sample containers were filled first. The discharge tubing was directed toward the inside wall of the sample container to minimize volatilization. VOC sample containers were filled so that no headspace (air bubbles) was present.
- Each sample bottle was labeled in the field and placed in a cooler with ice.
- All non-disposable equipment was decontaminated with Alconox and water, and then rinsed with deionized water prior to and after each use.
- Monitoring well sampling data was recorded in a groundwater well sampling form (provided in Appendix A).

The samples were submitted to Test America Laboratory, of Amherst, New York, an NYSDOH ELAP approved laboratory, to be analyzed for AES/MS Met (21) and VOA (21). A list of wells and analytical results are presented in Table 2.

4.3 Groundwater Test Results

To assess the status of groundwater quality at the site and surrounding area, HRP compared collected analytical data from the July 2011 sampling event to historical conditions and to applicable NYSDEC water quality criteria. The groundwater analytical results of the third quarter sampling event, conducted in July 2011, detected tetrachloroethylene, trichloroethylene, 1,1,1-trichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethylene, arsenic, total chromium, iron, and manganese. See table 2 for complete results.

Comparisons to historical groundwater monitoring data enabled assessment of the general effectiveness of the treatment system.

4.3.1 Comparison to Historical Groundwater Quality

The attached charts (Chart 5a through Chart-5c) illustrate the historical concentration trends for PCE and/or TCE in three wells (EW-1a, EW-4c, SW-1). These wells were selected due to consistent elevated VOC analytical results and the presence of sufficient historical data. In all cases, the results indicate a general downward trend in VOC concentrations (Charts 5a through 5c).

Metals are not the primary contaminants of concern at the site, however iron and manganese trends were analyzed for the wells presented above (Charts 6a through 6c). With the exception of isolated anomalous detections, trends for these two metals are generally stable. However, manganese concentrations exhibit an upward trend in EW-1a (Chart 6a) and have risen in EW-4c since 2009 (Chart 6b).

4.3.2 VOC Plume Evaluation

An assessment of groundwater contamination distribution was conducted by creating contaminant isopleths maps for PCE and TCE (Figures 3a through 3d). Isopleths were generated for three distinct horizons, based on the screen elevations of site wells. These horizons are comparable to those identified in a 2001 SAIC groundwater report for the site. An additional isopleth map demonstrating the plume footprint (Figure 3d) was created using the maximum concentration observed in each well cluster.

Shallow Contamination

The shallow groundwater horizon (Figure 3a) includes wells screened from 44.86-75.10 feet above mean sea level (ft AMSL) and is comprised of wells EW-1a, EW-2a, EW-3a, EW-4a, EW-6a, and SW-1. There is an isolated area of groundwater impact where TCE is above the NYSDEC class GA water quality standard (5 µg/l) to the southwest of the site building, near SW-1. PCE impacts also are near SW-1, and are more prevalent, extending to the northeast. Wells in the EW-3 cluster are not shown on the figure, but were included in plume evaluation. Neither PCE nor TCE was detected in the EW-3 cluster.

Intermediate Contamination

The intermediate groundwater horizon (Figure 3b) includes wells screened from 22.32 to 53.5 ft AMSL and is comprised of wells EW-1b, EW-2b, EW-3b, EW-4b, MW-8a, DW-1, and DW-2. An isolated area of PCE impact above the NYSDEC class GA standard is centered on MW-8a and a secondary area of PCE and TCE impact above the standard is centered on EW-4b. Wells in the EW-3 cluster are not shown on the figure, but were included in plume evaluation. Neither PCE nor TCE was detected in the EW-3 cluster.

Deep Contamination

The deep groundwater horizon (Figure 3c) includes wells screened from -6.84 to 19.11 ft AMSL and is comprised of wells EW-1c, EW-2c, EW-3c, EW-4c, and EW-10c. Groundwater concentrations of PCE and TCE in this horizon were above NYSDEC class GA criteria to the northeast of the site buildings, and the predominant compound is TCE. No groundwater impacts of PCE or TCE were observed above the NYSDEC class GA water quality standards to the south of the site buildings. Wells in the EW-3 cluster are not shown on the figure, but were included in plume evaluation. Neither PCE nor TCE was detected in the EW-3 cluster.

Plume Footprint

PCE is present in groundwater in two comingled plumes. The highest concentrations of PCE were observed in the shallow horizon at SW-1 (86 µg/l) located southwest of the Site building. Additional PCE contamination appears to be migrating on-site from the northeast, evidenced by concentrations in the EW-7 and EW-4 clusters (30 µg/l). PCE concentrations were also observed at target concentrations (5 µg/l) in the MW-10 cluster and at EW-14d, southeast of the site buildings.

TCE contamination appears to be primarily migrating on-site from the northeast [well clusters EW-7 (560 µg/l) and EW-4 (220 µg/l)]. A minor TCE concentration in groundwater at SW-1 (5.2 µg/l) may indicate co-mingled plumes, although observed concentrations are orders of magnitude lower than those migrating on-site. Similar isolated detections were observed at the MW-10 cluster (11 µg/l) and concentrations of TCE in EW-14d (310 µg/l) indicate that a third plume of an unknown source may be present (Figure 3d).

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

HRP completed a groundwater monitoring event in July and August 2011 at the Claremont Polychemical Corporation site, in which 44 groundwater samples were collected. Analysis of the data has resulted in the following conclusions,

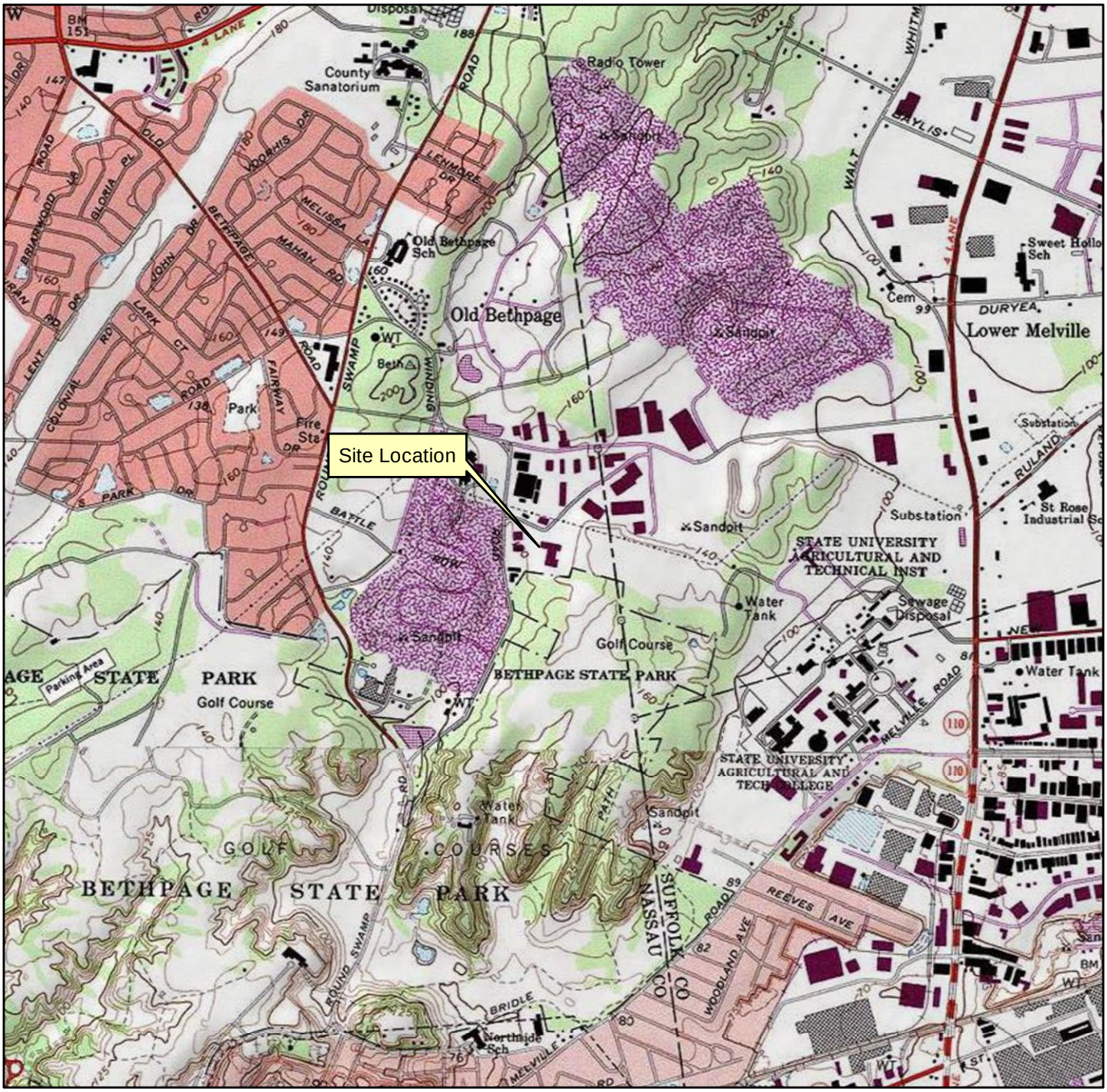
- A groundwater plume of VOCs, primarily PCE originates from the south of the main site building;
- Up to three other plumes migrate into the study area, and are marked by TCE predominance;
- The current groundwater treatment system is providing sufficient capture of the plume generated onsite;
- Some or all of the TCE plume originating northeast of the site is not being captured by the current treatment system;
- Two plumes identified southeast of the site may be related to the northernmost plume, although data gaps between the plumes exist based on the current monitoring network; and
- Concentrations of metals (arsenic, iron, manganese, chromium) were reported above NYSDEC class GA water quality criteria. These detections do not appear to be related to any specific plume, but rather general regional groundwater conditions.

5.2 Recommendations

Based on analysis of data collected during this and historical events, HRP has the following recommendations for the Claremont Polychemical Corporation site:

- Continued operation of the site system to capture the VOC plume generated from an on-site source and quarterly VOC sampling to verify that the plume is controlled;
- Evaluation of possible system expansion to the east to capture the plume migrating onsite from the area north of the EW-7 cluster (Figure 3d);
- Investigation to identify the source and connectivity of the plumes or elevated concentrations identified in the MW-10 cluster and at EW-14d (Figure 3d); and
- Since metals do not appear to be directly related to any particular plume on the site, HRP recommends discontinuation of metals sampling during quarterly plume monitoring events.

FIGURES



USGS Quadrangle Information
Quad ID: 40073-G4
Name: Huntington, New York
Date Rev: 1977
Date Pub: 1979

0 1,000 2,000 4,000 6,000 8,000 Feet

1 inch = 2,000 feet

N

Figure 1
Site Location
Claremont Polychemical Corporation
Old Bethpage, New York
HRP # NEW9625.OM
Site Code 130015
Scale 1" = 2,000'

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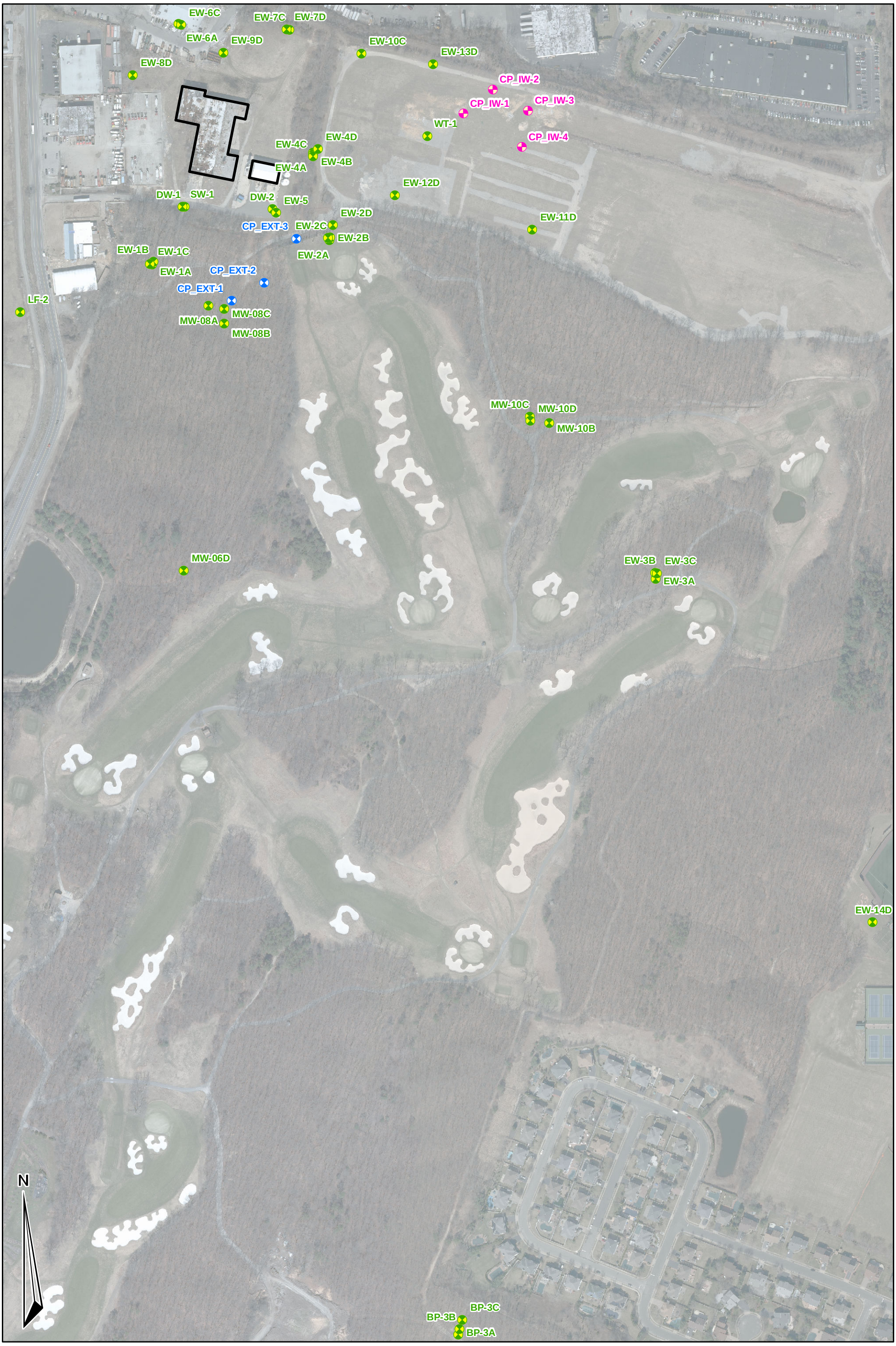

Figure 2A - Monitoring Well Network
Claremont Polychemical Corporation
Old Bethpage, New York
HRP # NEW9625.OM Site Code 130015
Scale 1" = 300'

Legend

- Monitoring Well
- Extraction Well
- Injection Well
- Site Buildings

300 150 0 300 Feet

1 inch = 300 feet

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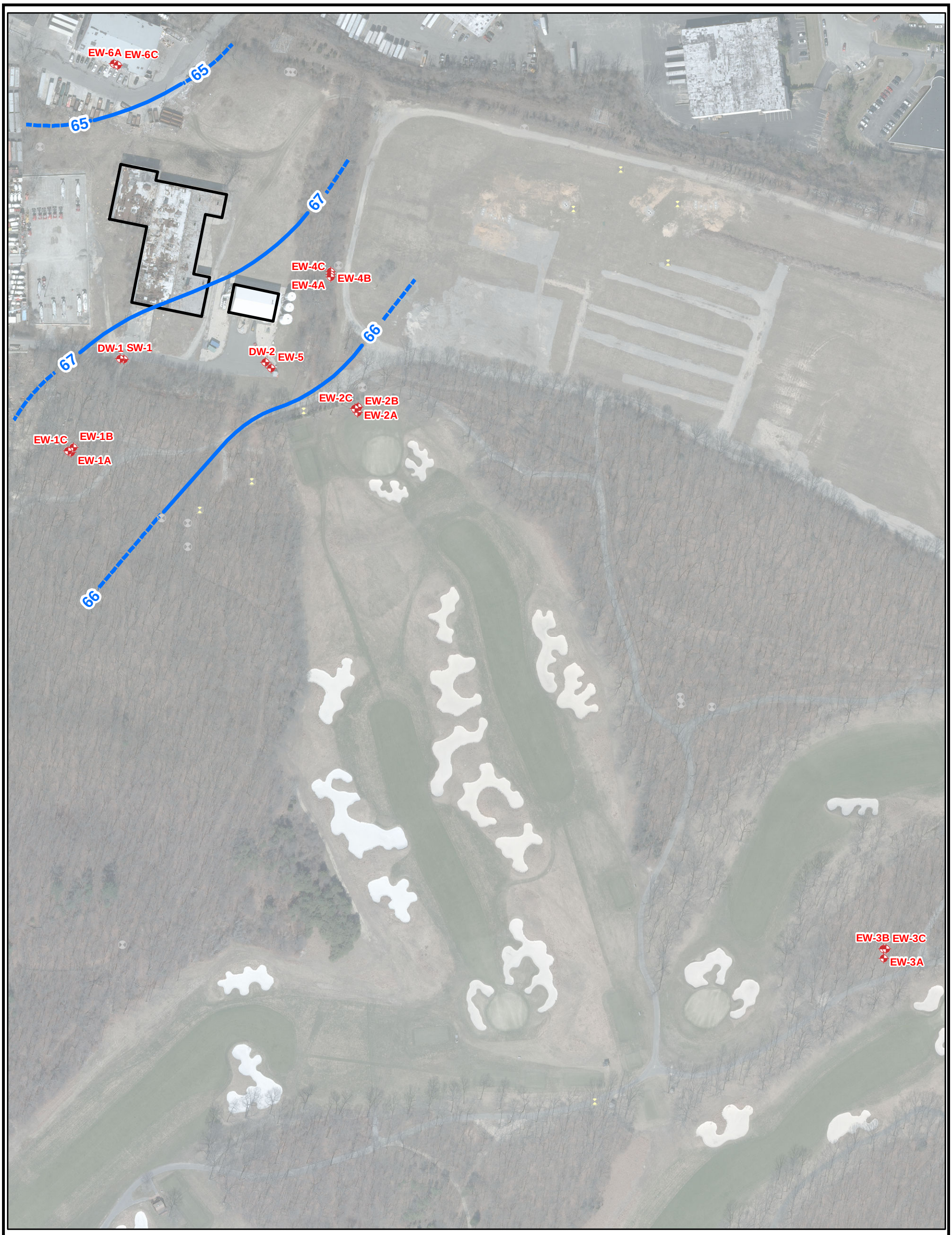

N

200 100 0 200 400

Feet

1 inch = 200 feet

Figure 2b
Shallow Groundwater
Elevation Contours
July 2011
Claremont Polychemical Corporation
Old Bethpage, New York
HRP # NEW9625.OM
Site Code 130015
Scale 1" = 200'

Legend

- Monitoring Well
- July 2011 Groundwater Contours

Note: Contours dashed where inferred.

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[0.43]
[0.21] EW-6A

5

10

[0.21]
[5] EW-4A

[5.2]
SW-1
[86]

5

[0.18]
[ND<5] EW-2A

10

[0.45]
EW-1A
[8.7]

5

N

100 50 0 100 200
Feet

1 inch = 100 feet

Figure 3a
Shallow Groundwater PCE and TCE Contaminant Isopleths
(Screened Interval: 44.68-75.10' AMSL)
July 2011
Claremont Polychemical Corporation
Old Bethpage, New York
HRP # NEW9625.OM
Site Code 130015
Scale 1" = 100'

Legend

- Monitoring Well
- PCE Isopleths (ug/l)
- TCE Isopleths (ug/l)
- ND<# Not Detected above reporting limit

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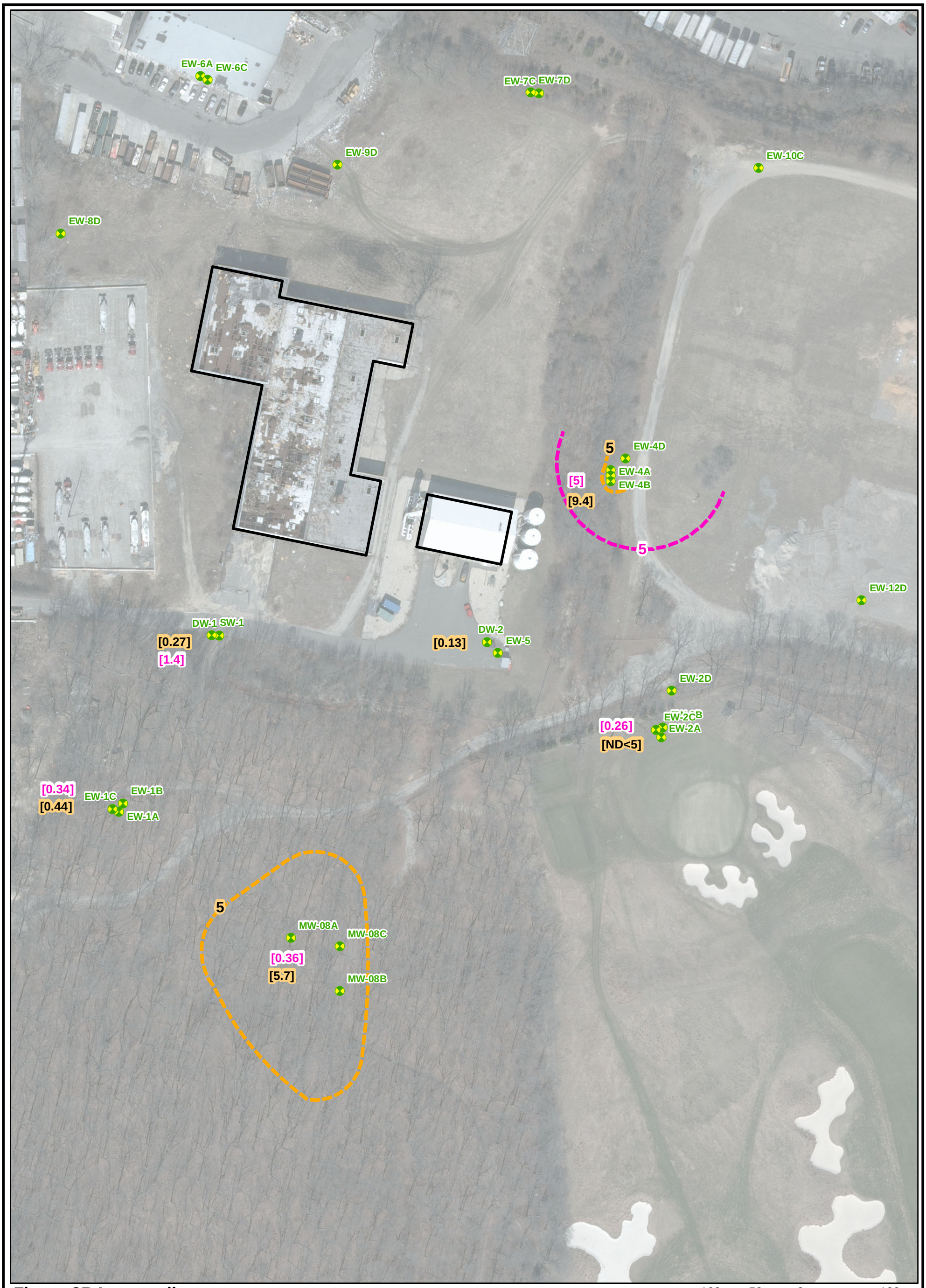

Figure 3B Intermediate Groundwater PCE and TCE Contaminant Isopleths (Screened Interval: 22.32-53.5' AMSL)
July 2011
Claremont Polychemical Corporation
Old Bethpage, New York
HRP # NEW9625.OM Site Code 130015
Scale 1" = 100'

N

Legend

- Monitoring Well
- PCE Isopleth (ug/l)
- TCE Isopleth (ug/l)

100 50 0 100 Feet

1 inch = 100 feet

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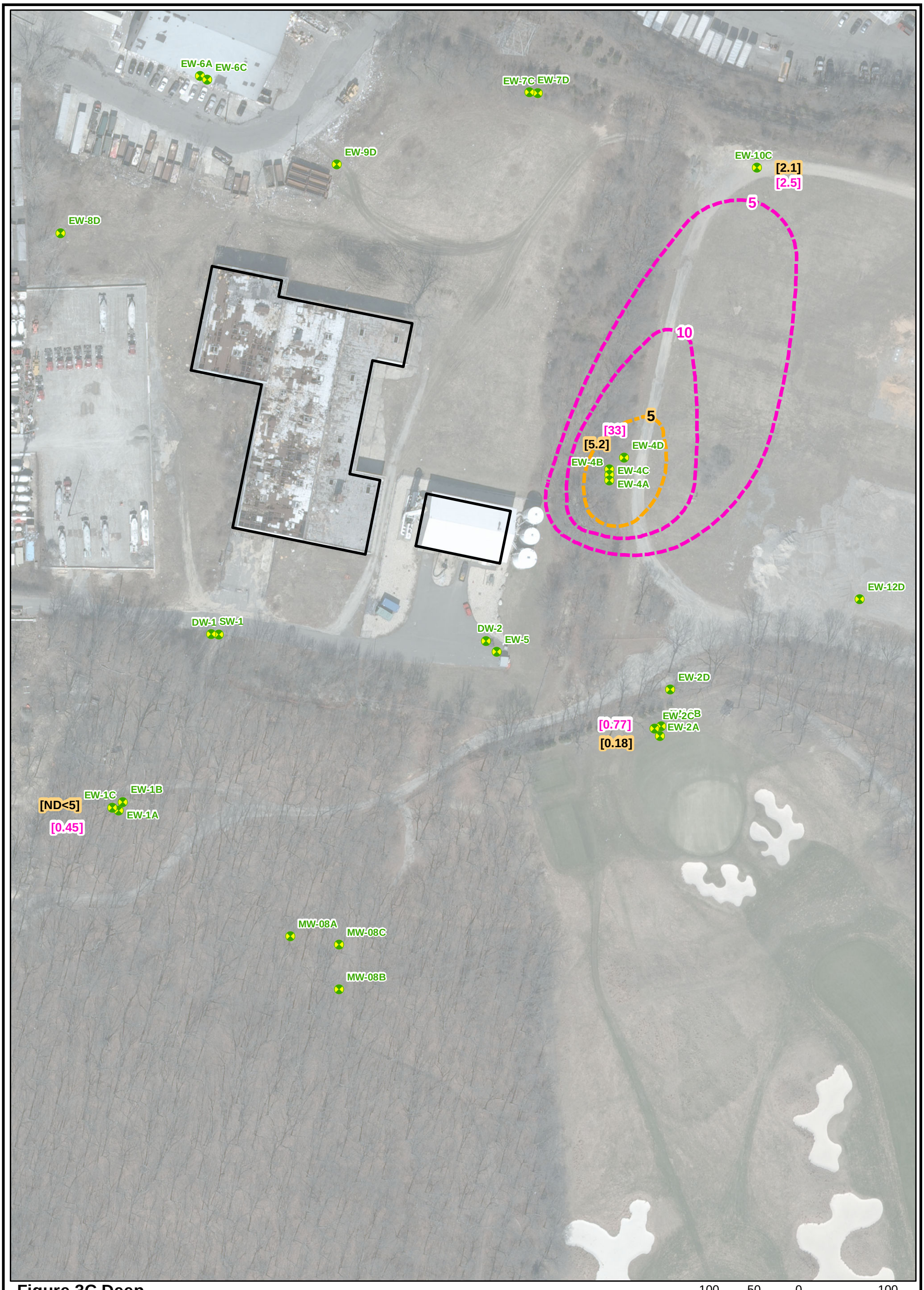

Figure 3C Deep
Groundwater PCE and TCE
Contaminant Isopleths
(Screened Interval: 6.84-19.11' AMSL)
July 2011
Claremont Polychemical Corporation
Old Bethpage, New York
HRP # NEW9625.OM Site Code 130015
Scale 1" = 100'

N

Legend

- Monitoring Well
- PCE Isopleth (ug/l)
- TCE Isopleth (ug/l)

100 50 0 100
Feet
1 inch = 100 feet

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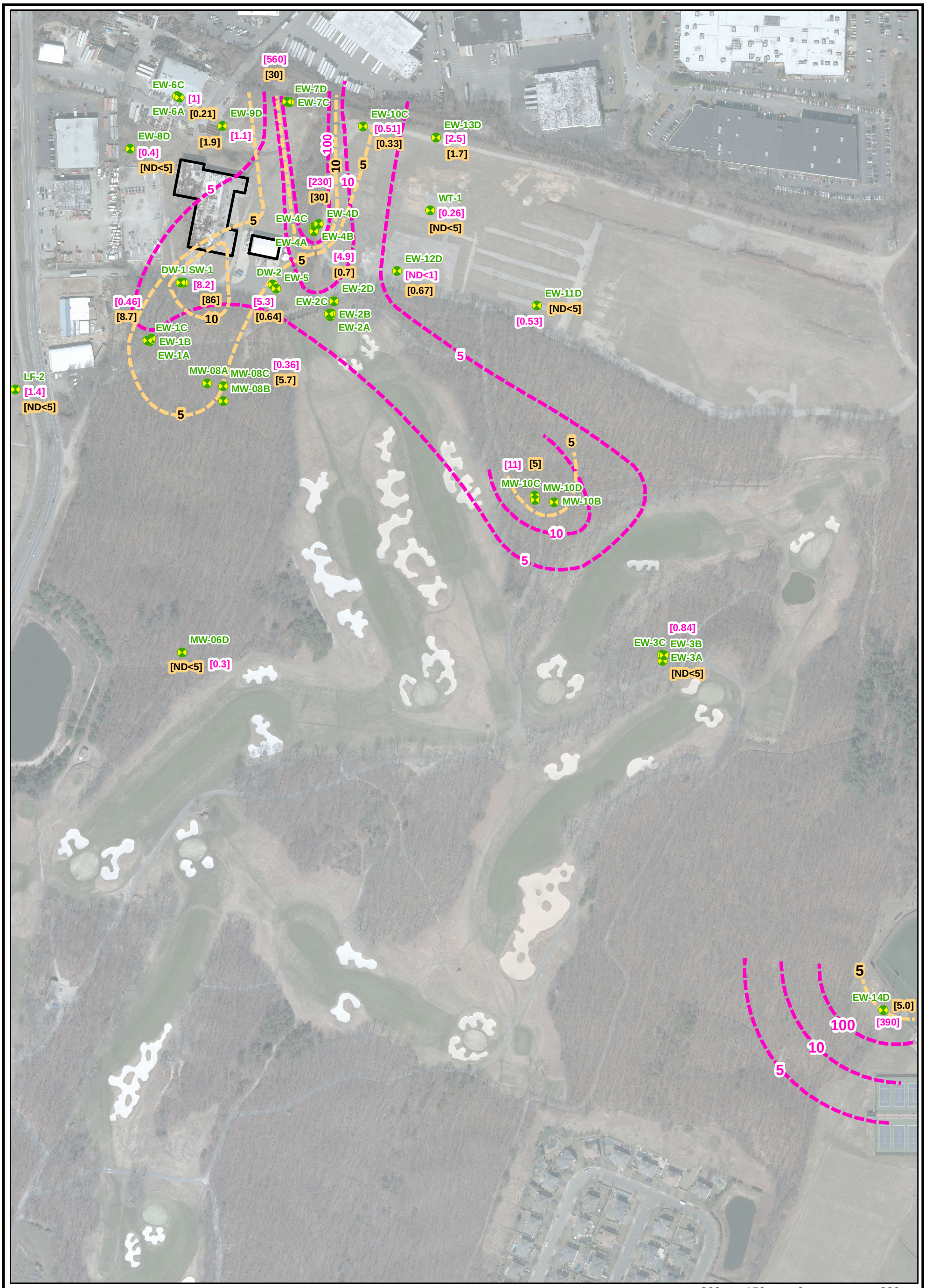

Figure 3D Maximum Groundwater PCE and TCE Contaminant Isopleths
July 2011
Claremont Polychemical Corporation
Old Bethpage, New York
HRP # NEW9625.OM Site Code 130015
Scale 1" = 300'

N

300 150 0 300
Feet
1 inch = 300 feet

Legend

- Monitoring Well
- PCE Isopleth (ug/l)
- TCE Isopleth (ug/l)

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TABLES

Table 1: Groundwater Elevations
Claremont Polychemical Superfund Site
3rd Quarter 2011 Groundwater Sampling Event
Old Bethpage, NY
HRP#NEW9625.OM
Site Code: 130015
WA# D006130-19

			July/Aug 2011		
Well ID	**Elev.of Screened Interval (ft AMSL)**	**Elevation (NGVD29) to Top of PVC Casing (ft AMSL)**	**Sample Date**	**Depth to Water Below Ref El[b] (ft)**	**Water Elevation (ft AMSL)**
Monitoring Wells					
EW-1A	53.34 to 63.17	130.02	20-Jul-11	63.50	66.50
EW-1B	28.75 to 38.58	130.56	20-Jul-11	64.00	66.53
EW-1C	3.43 to 13.26	130.47	20-Jul-11	64.05	66.39
EW-2A	65.19 to 55.36	157.14	20-Jul-11	91.80	65.56
EW-2B	28.74 to 38.57	157.61	20-Jul-11	91.89	65.84
EW-2C	7.60 to 17.43	157.54	20-Jul-11	91.02	66.64
EW-2D	-132.55 to -142.55	NA	20-Jul-11	92.28	65.96
EW-3A	52.28 to 62.11	158.92	20-Jul-11	93.50	65.45
EW-3B	22.32 to 32.15	159.06	20-Jul-11	95.60	63.49
EW-3C	2.99 to -6.84	158.92	20-Jul-11	95.50	63.45
EW-4A	44.86 to 59.69	161.89	20-Jul-11	95.10	66.68
EW-4B	29.8 to 39.63	161.67	20-Jul-11	95.17	66.63
EW-4C	4.59 to 14.42	161.41	20-Jul-11	95.00	66.54
EW-4D	-125.26 to -135.26	NA	20-Jul-11	95.38	66.39
EW-5	-31.16 to -40.99	135.55	20-Jul-11	70.45	66.53
EW-6A	57.66 to 67.49	130.32	20-Jul-11	62.20	68.12
EW-6B	10.79 to 20.62	130.61	abandoned		
EW-6C	-29.60 to -39.43	130.40	20-Jul-11	62.23	68.17
EW-7C	-37.47 to -47.47	NA	20-Jul-11	86.60	67.19
EW-7D	-121.47 to -131.47	NA	20-Jul-11	86.50	67.21
EW-8D	-102.49 to -112.49	NA	20-Jul-11	73.35	58.19
EW-9D	-108.6 to -118.6	NA	20-Jul-11	70.30	67.23
EW-10C	19.11 to 9.11	NA	20-Jul-11	93.30	67.64
EW-11D	-106.75 to -116.75	NA	20-Jul-11	99.78	65.55
EW-12D	-47.33 to -57.33	NA	20-Jul-11	98.43	65.99
EW-13D	-177.28 to -187.28	NA	20-Jul-11	98.60	66.13
EW-14D	-85.27 to -95.27	NA	20-Jul-11	41.25	60.88
SW-2	65.10 to 75.10	136.93	dry		
DW-2	37.35 to 42.35	137.61	20-Jul-11	71.10	65.32
SW-1	61.50 to 66.50	131.31	20-Jul-11	nm	nm
DW-1	32.89 to 38.39	131.19	20-Jul-11	nm	nm
LF-02	3 to 8	118.70	20-Jul-11	51.90	66.80
PPW-1	-166.15 to -196.15	136.74	Permanently closed Oct. 2008		
WT-01	56.98 to 66.98	164.57	20-Jul-11	96.70	67.87
MW-6D	-26.1 to -31.1	160.39	20-Jul-11	95.20	65.19
MW-8A	48.5 to 53.5	133.18	20-Jul-11	69.35	63.83
MW-8B	-22.2 to -27.2	134.24	20-Jul-11	69.00	65.24
MW-8C	-110.7 to -115.7	135.72	20-Jul-11	69.80	65.92
MW-10B	-13 to -18	161.12	20-Jul-11	96.50	64.62
MW-10C	-113.1 to -118.1	160.27	20-Jul-11	95.60	64.67
MW-10D	-186.2 to -191.2	161.17	20-Jul-11	96.95	64.22
BP-3A	51 to 71	124.54	20-Jul-11	62.28	62.26
BP-3B	-91 to -111	123.57	20-Jul-11	nm	nm
BP-3C	-156 to -176	123.68	20-Jul-11	nm	nm
RW-01	Abandoned	Abandoned	abandoned		

Key:
ft bgs - feet below ground surface
ft AMSL - feet above mean sea level
Ref El - reference elevation
NM - not measured
NA - not applicable

Table 2: Summary of Analytical Results

3rd Quarter 2011 Sampling Event
Claremont Polychemical Superfund Site
Old Bethpage, NY
HRP#NEW9625.OM
Site Code: 130015
WA# D006130-19

Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC Class GA Criteria		25	1000	50	300	25	300	10	5	5	1	5	5	5	5	5	0.04	3	5	1	5	0.4	0.4	5
Sample Description	**Sampling Event**	Arsenic	Barium	Chromium, Total	Iron	Lead	Manganese	Selenium	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichlorotrifluoroethane (freon 113)	1,1-Dichloroethane	1,1-Dichloroethylene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,3-Dichloropropene (cis)	1,3-Dichloropropene (trans)	1,4-Dichlorobenzene
BP-3a	07/27/11	<15	27.9	<5	<125	3.3	9.8	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
BP-3b	08/01/11	<15	19.1	5.2	213	<15	8.6	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
BP-3c	08/01/11	<15	65.9	**77**	**938**	<15	281	(<38)	0.52	<5	0.14	<5	1.5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
BP-3c dup	08/01/11	<15	66.92	**79.87**	**974.4**	<15	286.2	(<38)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DW-1	07/25/11	<15	30.9	<5	58.9	<15	13	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
DW-2	07/26/11	<15	74.9	<5	27.9	<15	46.3	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-10c	07/25/11	<15	75.8	0.68	<125	<15	32.9	(<38)	0.16	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-11d	07/25/11	<15	90.9	<5	<125	3.5	20.7	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-12d	07/25/11	<15	111	4	42.3	<15	104	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-13d	07/25/11	<15	44.8	7.9	24.2	<15	241	(<38)	1.7	<5	(<5)	<5	1.3	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-14d	07/26/11	<15	40.6	0.58	23.2	<15	41.6	(<38)	**48**	(<13)	0.95	(<13)	1.2	(<13)	(<13)	(<13)	(<13)	(<13)	**7.2**	(<13)	(<13)	(<13)	(<13)	(<13)
EW-14d	07/26/11	<15	40.6	0.58	23.2	<15	41.6	(<38)	**39**	<5	0.73	<5	0.78	<5	<5	<5	(<5)	(<5)	**5.6**	(<5)	<5	(<5)	(<5)	<5
EW-1a	07/22/11	<15	234	0.64	<125	4.8	**2350**	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-1a	07/22/11	<15	228	0.69	<125	<15	**2410**	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-1b	07/22/11	<15	44.6	<5	54.9	3.7	**361**	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-1c	07/22/11	<15	51.8	<5	47.7	4.3	**595**	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-2a	07/25/11	<15	10	1.8	**3510**	7.4	61.5	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-2b	07/29/11	<15	54.5	0.6	**597**	<15	78.1	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-2c	07/25/11	<15	101	<5	19.1	2.8	142	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-2d	07/27/11	<15	29.6	<5	251	5.8	12.2	(<38)	0.13	<5	(<5)	<5	0.19	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-3a	07/22/11	<15	8.8	<5	148	6.1	4.1	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-3b	07/22/11	<15	14.5	<5	87.7	4.4	6.4	(<38)	<5	<5	(<5)	<5	<5	<5	0.47	0.54	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-3c	07/22/11	<15	67.2	<5	55.7	6.4	7.9	(<38)	<5	<5	(<5)	<5	<5	<5	<5	0.3	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-4a	07/26/11	<15	42.5	<5	51.2	4.8	65.1	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-4b	07/26/11	<15	78.6	<5	19.2	<15	25.1	(<38)	2.8	<5	(<5)	<5	0.44	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-4c	07/26/11	<15	242	<5	15	<15	**456**	(<38)	3.4	<5	(<5)	<5	0.65	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-4d	07/25/11	<15	44	<5	58.7	3.7	5.3	(<38)	2.9	<5	(<5)	<5	0.36	<5	0.41	0.47	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5

Table 2: Summary of Analytical Results

3rd Quarter 2011 Sampling Event
Claremont Polychemical Superfund Site
Old Bethpage, NY
HRP#NEW9625.OM
Site Code: 130015
WA# D006130-19

Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC Class GA Criteria		NS	50	1	5	5	60	5	5	7	5	5	5	5	5	5	10	5	5	5	5	5	5	5	2
Sample Description	**Sampling Event**	1,4-Dioxane	Acetone	Benzene	Bromochloromethane	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethylene	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	m/p-Xylenes	Methylene chloride	Methyltertbutyl ether	o-Xylene	Styrene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Trichlorofluoromethane	Vinyl chloride
BP-3a	07/27/11	<100	<10	(<5)	<5	<5	0.18	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	(<5)
BP-3b	08/01/11	<100	<10	(<5)	<5	<5	0.23	<5	<5	<5	2.1	<5	<5	<5	<5	<5	<5	<5	<5	**6.1**	<5	<5	0.55	<5	(<5)
BP-3c	08/01/11	<100	<10	(<5)	<5	<5	0.23	<5	<5	<5	**37**	0.71	<5	<5	<5	0.5	<5	<5	<5	2	<5	0.39	3.5	0.098	(<5)
BP-3c dup	08/01/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DW-1	07/25/11	<100	<10	(<5)	<5	<5	0.15	<5	<5	<5	0.72	<5	<5	<5	<5	<5	<5	<5	<5	0.27	<5	<5	1.4	<5	(<5)
DW-2	07/26/11	<100	<10	(<5)	<5	<5	0.15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.13	<5	<5	NA	<5	(<5)
EW-10c	07/25/11	<100	<10	(<5)	<5	<5	0.23	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.34	<5	<5	1.1	<5	(<5)
EW-11d	07/25/11	<100	<10	(<5)	<5	<5	0.22	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.47	<5	(<5)
EW-12d	07/25/11	<100	<10	(<5)	<5	<5	0.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.53	<5	(<5)
EW-13d	07/25/11	<100	<10	(<5)	<5	<5	0.19	<5	<5	<5	0.8	<5	<5	<5	<5	<5	2.6	<5	<5	1.7	<5	<5	1.9	<5	(<5)
EW-14d	07/26/11	<260	<26	(<13)	(<13)	(<13)	0.53	(<13)	(<13)	(<13)	4.1	(<13)	(<13)	(<13)	(<13)	0.47	(<13)	(<13)	(<13)	5	(<13)	(<13)	**310**	(<13)	(<13)
EW-14d	07/26/11	42	<10	(<5)	<5	<5	0.16	<5	<5	<5	3.2	<5	<5	<5	<5	0.35	<5	<5	<5	4.4	<5	<5	**230**	<5	(<5)
EW-1a	07/22/11	<100	<10	(<5)	<5	<5	0.18	<5	<5	<5	0.84	<5	<5	<5	<5	<5	<5	<5	<5	**8.7**	0.024	<5	NA	<5	(<5)
EW-1a	07/22/11	<100	<10	(<5)	<5	<5	0.25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**8.3**	<5	<5	0.45	<5	(<5)
EW-1b	07/22/11	<100	<10	(<5)	<5	<5	0.16	<5	<5	<5	0.28	<5	<5	<5	<5	<5	<5	<5	<5	0.44	0.025	<5	0.34	<5	(<5)
EW-1c	07/22/11	<100	<10	(<5)	<5	<5	0.14	<5	<5	<5	0.32	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.024	<5	0.43	<5	(<5)
EW-2a	07/25/11	<100	1.3	(<5)	<5	<5	0.18	<5	<5	<5	1.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.9	<5	0.17	<5	(<5)
EW-2b	07/29/11	<100	4	(<5)	<5	<5	0.21	<5	<5	<5	0.23	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.067	0.26	<5	(<5)
EW-2c	07/25/11	<100	<10	(<5)	<5	<5	0.15	<5	<5	<5	0.15	<5	<5	<5	<5	<5	<5	<5	<5	0.18	0.027	<5	0.67	<5	(<5)
EW-2d	07/27/11	<100	<10	(<5)	<5	<5	0.14	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.9	0.031	<5	4.1	<5	(<5)
EW-3a	07/22/11	<100	<10	(<5)	<5	<5	0.14	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.026	<5	<5	<5	(<5)
EW-3b	07/22/11	<100	<10	(<5)	<5	<5	0.61	<5	<5	<5	<5	<5	0.1	<5	<5	<5	<5	<5	<5	<5	0.091	0.29	0.26	<5	(<5)
EW-3c	07/22/11	<100	<10	(<5)	<5	<5	0.33	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.042	<5	0.77	<5	(<5)
EW-4a	07/26/11	<100	<10	(<5)	<5	<5	0.31	<5	<5	<5	0.27	<5	<5	<5	<5	<5	<5	<5	<5	5	0.038	<5	0.21	<5	(<5)
EW-4b	07/26/11	<100	<10	(<5)	<5	<5	<5	<5	<5	<5	0.36	<5	<5	<5	<5	<5	0.5	<5	<5	5	0.039	<5	**8.2**	0.19	(<5)
EW-4c	07/26/11	<100	<10	(<5)	<5	<5	0.25	<5	<5	<5	1.7	<5	<5	<5	<5	<5	2.2	<5	<5	**5.2**	<5	0.23	**11**	<5	(<5)
EW-4d	07/25/11	<100	<10	(<5)	<5	<5	0.5	<5	<5	<5	1	<5	<5	<5	<5	<5	<5	<5	<5	**30**	0.081	<5	**220**	<5	(<5)

Table 2: Summary of Analytical Results

3rd Quarter 2011 Sampling Event
Claremont Polychemical Superfund Site
Old Bethpage, NY
HRP#NEW9625.OM
Site Code: 130015
WA# D006130-19

Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC Class GA Criteria		25	1000	50	300	25	300	10	5	5	1	5	5	5	5	5	0.04	3	5	1	5	0.4	0.4	5
Sample Description	**Sampling Event**	Arsenic	Barium	Chromium, Total	Iron	Lead	Manganese	Selenium	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichlorotrifluoroethane (freon 113)	1,1-Dichloroethane	1,1-Dichloroethylene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,3-Dichloropropene (cis)	1,3-Dichloropropene (trans)	1,4-Dichlorobenzene
EW-4d	07/25/11	<15	44	<5	58.7	3.7	5.3	(<38)	2.6	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)
EW-5	07/26/11	<15	22.8	<5	70.6	<15	66.7	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-6a	07/26/11	<15	55.7	0.72	181	2.8	208	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-6c	07/28/11	<15	35.9	<5	177	<15	38.5	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-7c	07/26/11	<15	310	<5	<125	<15	**766**	(<38)	2	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)	(<25)
EW-7c	07/26/11	<15	310	<5	<125	<15	**766**	(<38)	2.1	<5	(<5)	<5	0.35	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-7d	07/26/11	<15	62.5	<5	<125	<15	10.9	(<38)	0.4	<5	(<5)	<5	<5	<5	0.19	0.24	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-8d	07/26/11	<15	47.1	0.69	127	<15	9.3	(<38)	<5	<5	(<5)	<5	<5	<5	0.42	0.48	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
EW-9d	07/26/11	<15	36.8	<5	<125	<15	11.9	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
LF-2	07/27/11	**119**	57	11.3	**4720**	3.6	251	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
MW-10b	07/28/11	<15	83.6	<5	86.7	<15	22.7	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
MW-10c	07/28/11	<15	99.9	<5	50.5	2.7	90.2	(<38)	0.21	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
MW-10d	07/28/11	<15	81.3	<5	55	<15	21.1	(<38)	1.3	<5	(<5)	<5	3	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
MW-6d	07/27/11	**26.8**	119	0.59	**38700**	<15	**1990**	(<38)	<5	<5	(<5)	<5	0.28	<5	<5	0.28	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
MW-8a	07/28/11	4.8	15	0.76	139	<15	17.9	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
MW-8b	07/29/11	<15	117	<5	15.4	<15	**443**	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
MW-8c	07/27/11	<15	29.7	0.56	**838**	<15	22.9	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
SW-1	07/25/11	<15	54.7	<5	<125	<15	3.3	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
WT-1	07/28/11	<15	78.3	<5	<125	<15	34.4	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
WT-1	07/28/11	<15	79	<5	<125	<15	32	(<38)	<5	<5	(<5)	<5	<5	<5	<5	<5	(<5)	(<5)	<5	(<5)	<5	(<5)	(<5)	<5
WT-1	07/28/11	<15	79.5	<5	<125	<15	31.7	(<38)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WT-1	07/28/11	<15	78.3	<5	<125	<15	33.1	(<38)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2: Summary of Analytical Results

3rd Quarter 2011 Sampling Event
Claremont Polychemical Superfund Site
Old Bethpage, NY
HRP#NEW9625.OM
Site Code: 130015
WA# D006130-19

Unit		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NYSDEC Class GA Criteria		NS	50	1	5	5	60	5	5	7	5	5	5	5	5	5	10	5	5	5	5	5	5	2
Sample Description	**Sampling Event**	1,4-Dioxane	Acetone	Benzene	Bromochloromethane	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethylene	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	m/p-Xylenes	Methylene chloride	Methyltertbutyl ether	o-Xylene	Styrene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Trichlorofluoromethane	Vinyl chloride
EW-4d	07/25/11	<210	<21	(<11)	(<11)	(<11)	<11	(<11)	(<11)	(<11)	1.1	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	(<11)	**27**	(<11)	(<11)	**35**	(<11)	(<11)
EW-5	07/26/11	<100	<10	(<5)	<5	<5	<5	<5	<5	<5	0.25	<5	<5	<5	<5	<5	<5	<5	<5	0.64	<5	0.28	4.9	<5	(<5)
EW-6a	07/26/11	<100	<10	(<5)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.21	<5	<5	0.4	<5	(<5)
EW-6c	07/28/11	<100	<10	(<5)	<5	<5	0.18	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.074	0.84	<5	(<5)
EW-7c	07/26/11	<490	<49	(<25)	(<25)	(<25)	<25	(<25)	(<25)	(<25)	**12**	(<25)	(<25)	(<25)	(<25)	(<25)	7.1	(<25)	(<25)	**28**	(<25)	(<25)	**560**	(<25)	(<25)
EW-7c	07/26/11	<100	<10	(<5)	<5	<5	<5	<5	<5	<5	**13**	<5	<5	<5	<5	<5	6.5	<5	<5	**30**	<5	0.17	**390**	<5	(<5)
EW-7d	07/26/11	<100	<10	(<5)	<5	<5	0.32	<5	<5	<5	0.2	<5	<5	<5	<5	<5	<5	<5	<5	**21**	<5	<5	**33**	<5	(<5)
EW-8d	07/26/11	<100	<10	(<5)	<5	<5	0.51	<5	<5	<5	<5	<5	<5	<5	0.073	0.15	<5	0.028	<5	<5	0.07	0.24	0.39	<5	(<5)
EW-9d	07/26/11	<100	<10	(<5)	<5	<5	0.25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.9	<5	<5	1	<5	(<5)
LF-2	07/27/11	320	6.5	(<5)	<5	<5	0.2	<5	<5	<5	0.21	<5	<5	3.3	1.4	<5	<5	0.29	<5	<5	0.29	<5	1.1	<5	(<5)
MW-10b	07/28/11	<100	<10	(<5)	<5	<5	0.13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.46	<5	(<5)
MW-10c	07/28/11	<100	<10	(<5)	<5	<5	0.12	<5	<5	<5	0.33	<5	<5	<5	<5	<5	<5	<5	<5	2.1	<5	<5	2.5	<5	(<5)
MW-10d	07/28/11	<100	<10	(<5)	<5	<5	0.12	0.46	<5	<5	2.1	<5	<5	<5	<5	<5	<5	<5	<5	**5.1**	<5	0.14	**9.4**	<5	(<5)
MW-6d	07/27/11	50	<10	(<5)	<5	<5	0.27	<5	0.62	<5	<5	<5	<5	0.15	<5	0.16	6.3	<5	<5	<5	0.088	<5	0.28	<5	(<5)
MW-8a	07/28/11	<100	<10	(<5)	<5	<5	0.17	<5	<5	<5	<5	0.074	<5	<5	<5	<5	<5	<5	<5	**5.7**	<5	<5	0.36	<5	(<5)
MW-8b	07/29/11	<100	<10	(<5)	<5	<5	0.15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.25	<5	<5	0.19	<5	(<5)
MW-8c	07/27/11	<100	<10	(<5)	<5	<5	0.14	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.3	<5	(<5)
SW-1	07/25/11	<100	<10	(<5)	<5	<5	0.19	<5	<5	<5	4.5	<5	<5	<5	<5	<5	<5	<5	<5	**86**	<5	<5	**5.3**	<5	(<5)
WT-1	07/28/11	<100	<10	(<5)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.21	<5	(<5)
WT-1	07/28/11	15	<10	(<5)	<5	<5	0.12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.18	<5	(<5)
WT-1	07/28/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WT-1	07/28/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

CHARTS

Chart 1: Groundwater Influent Concentration (PCE, TCE, and 1,1-DCE) vs. Time

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY

HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

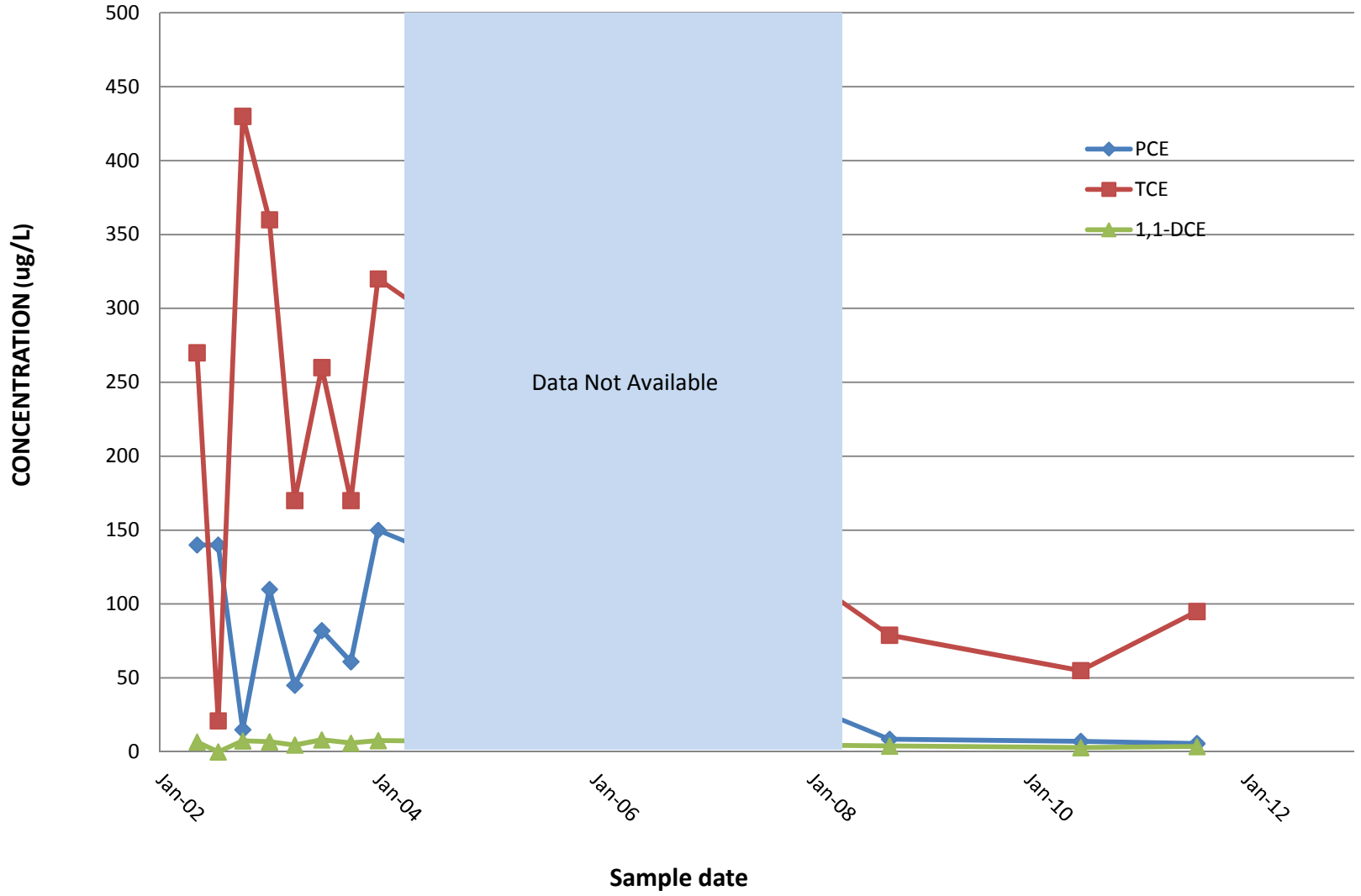


Chart 2: Groundwater Influent Concentration (Iron and Manganese) vs. Time

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

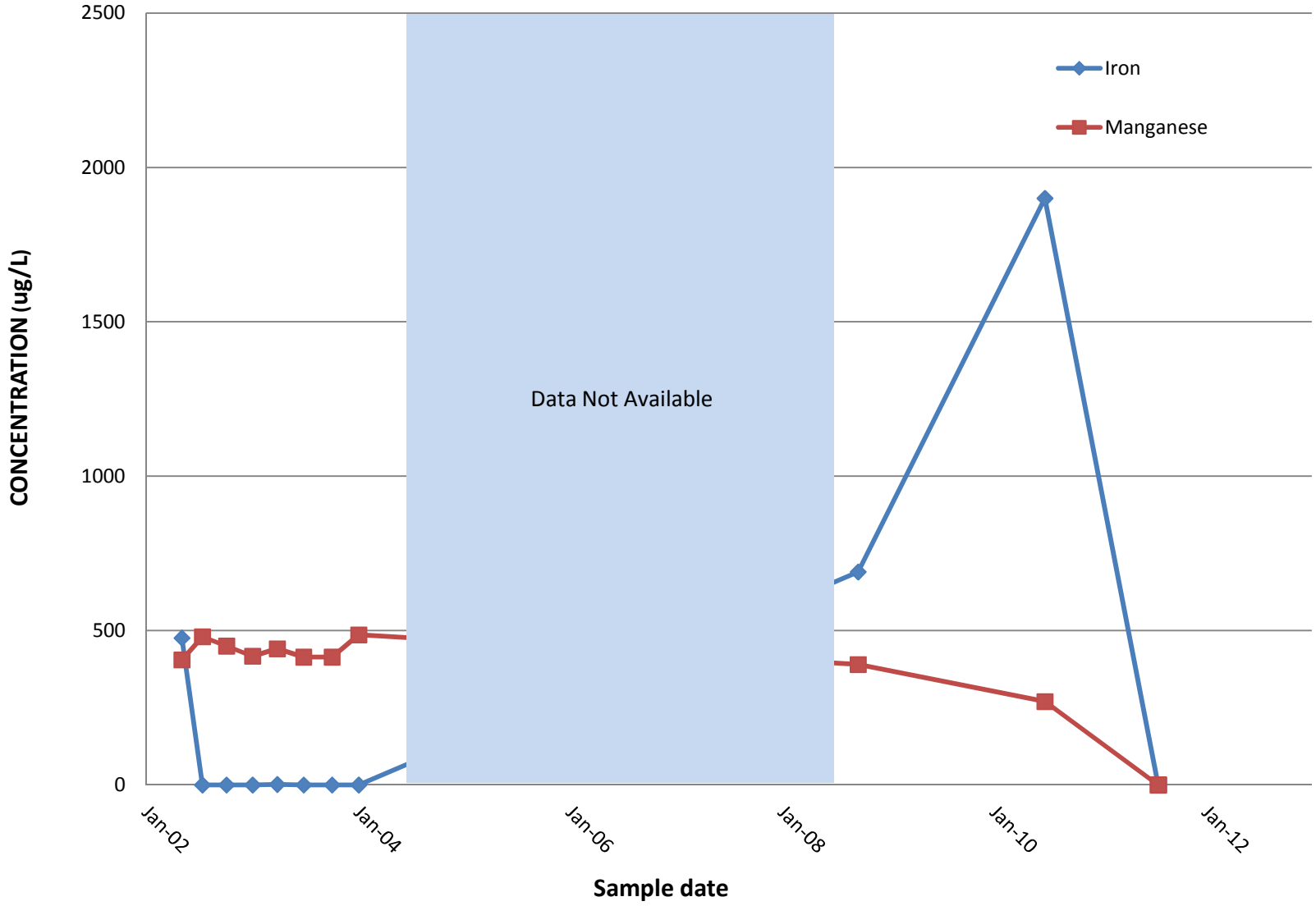


Chart 3a: Treated Effluent Concentration (PCE) vs Time

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

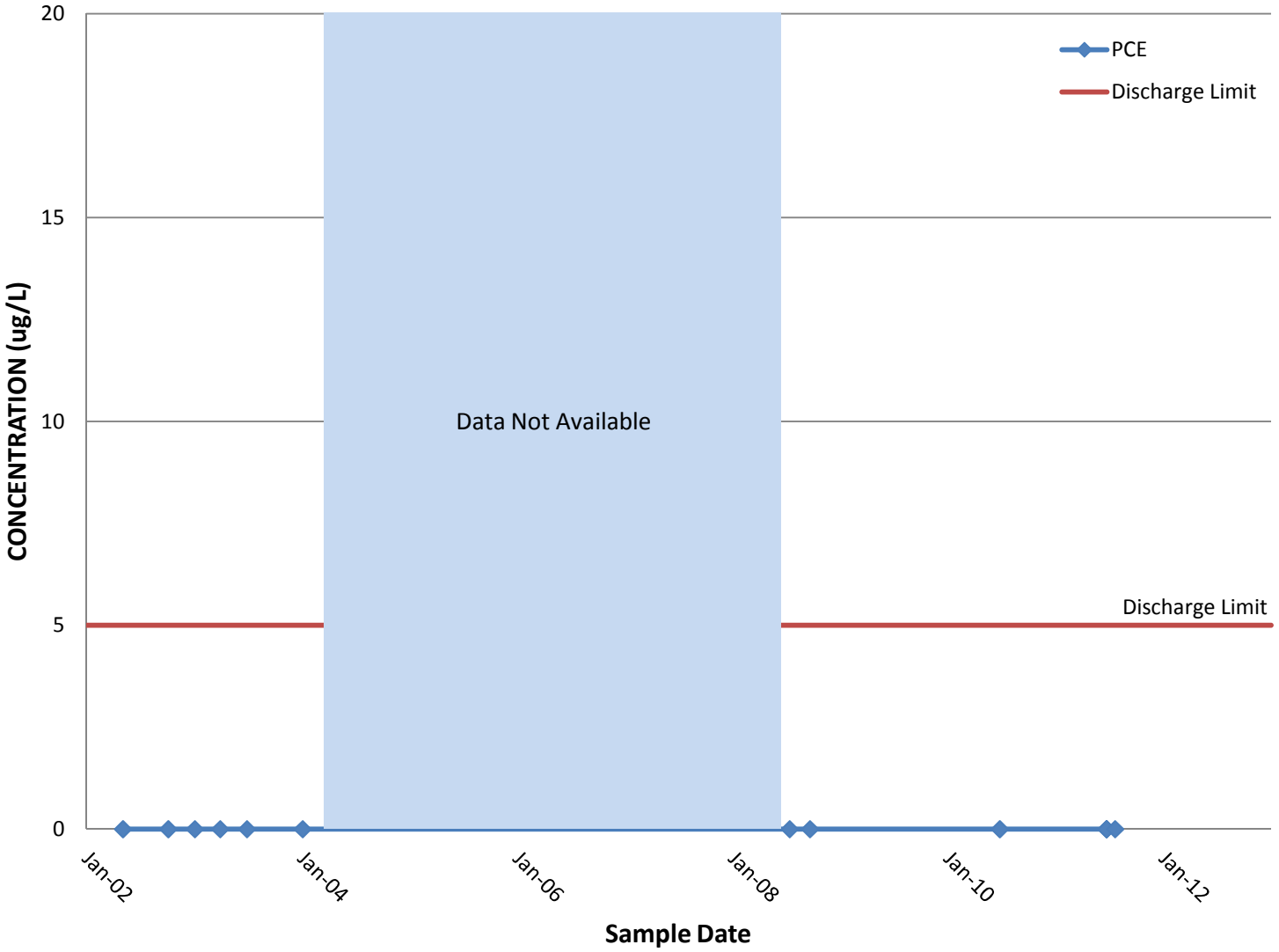


Chart 3b: Treated Effluent Concentration (TCE) vs Time

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

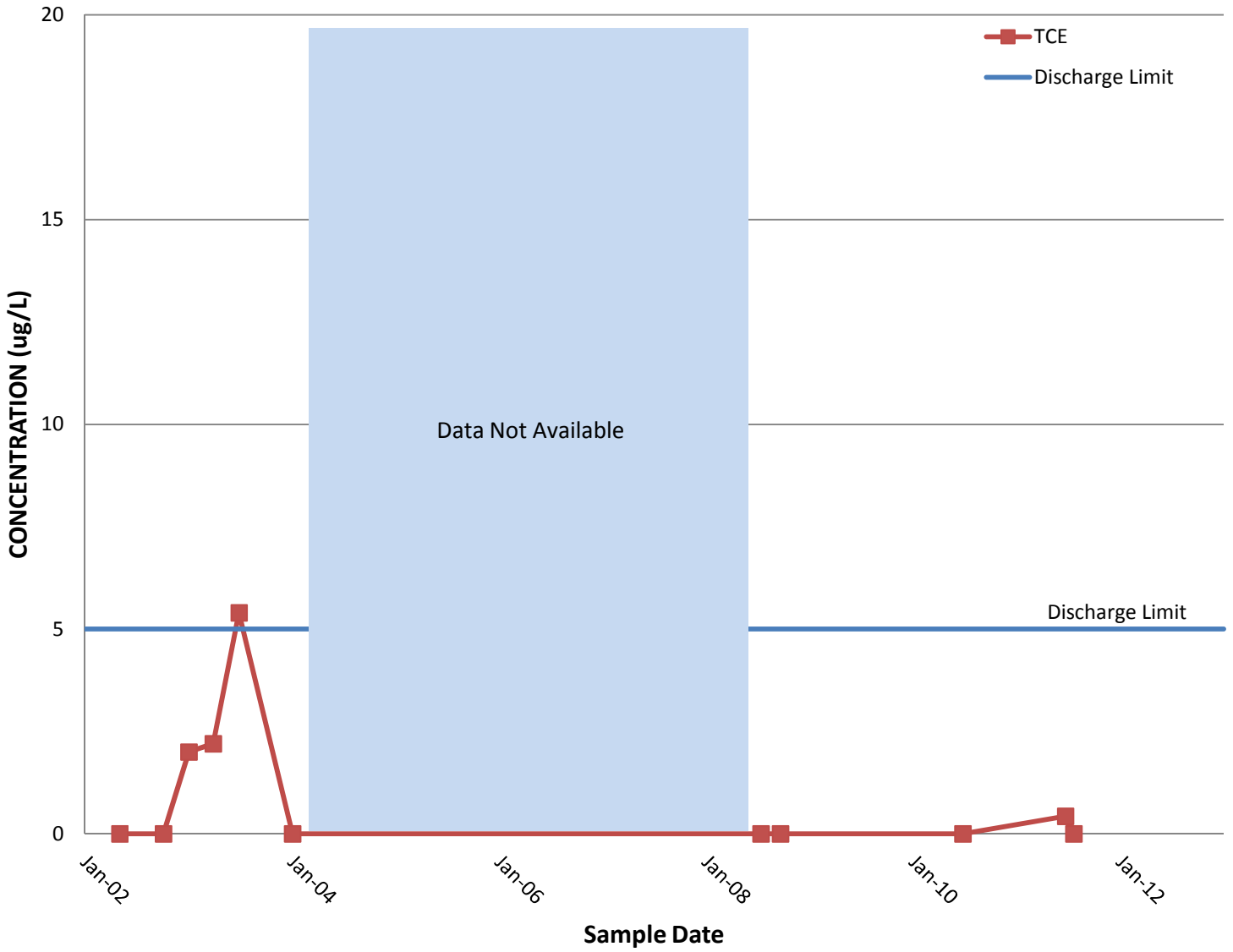


Chart 3c: Treated Effluent Concentration (1,1-DCE) vs Time

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

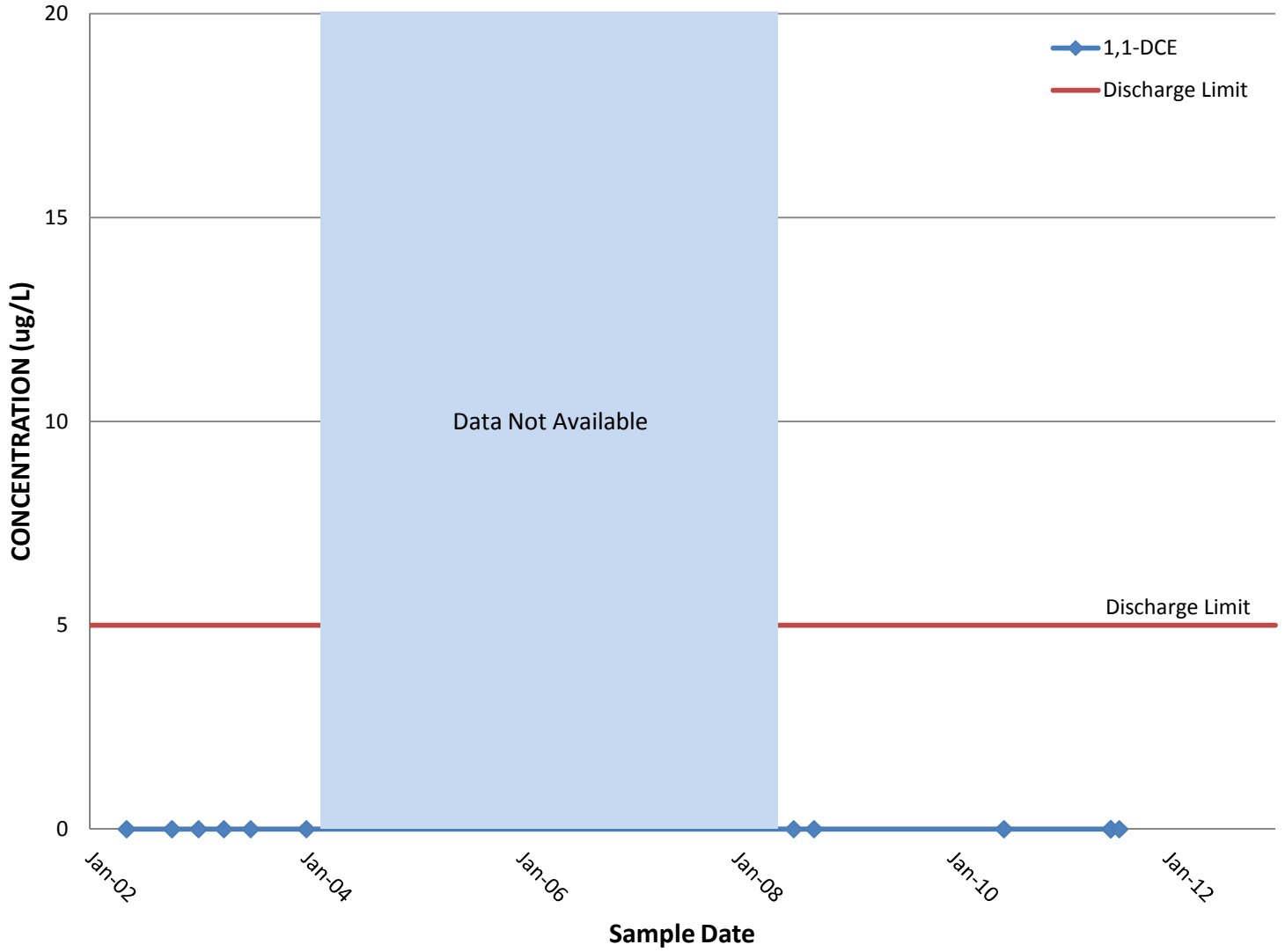


Chart 4: Treated System Effluent Concentration (Iron and Manganese) vs Time

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

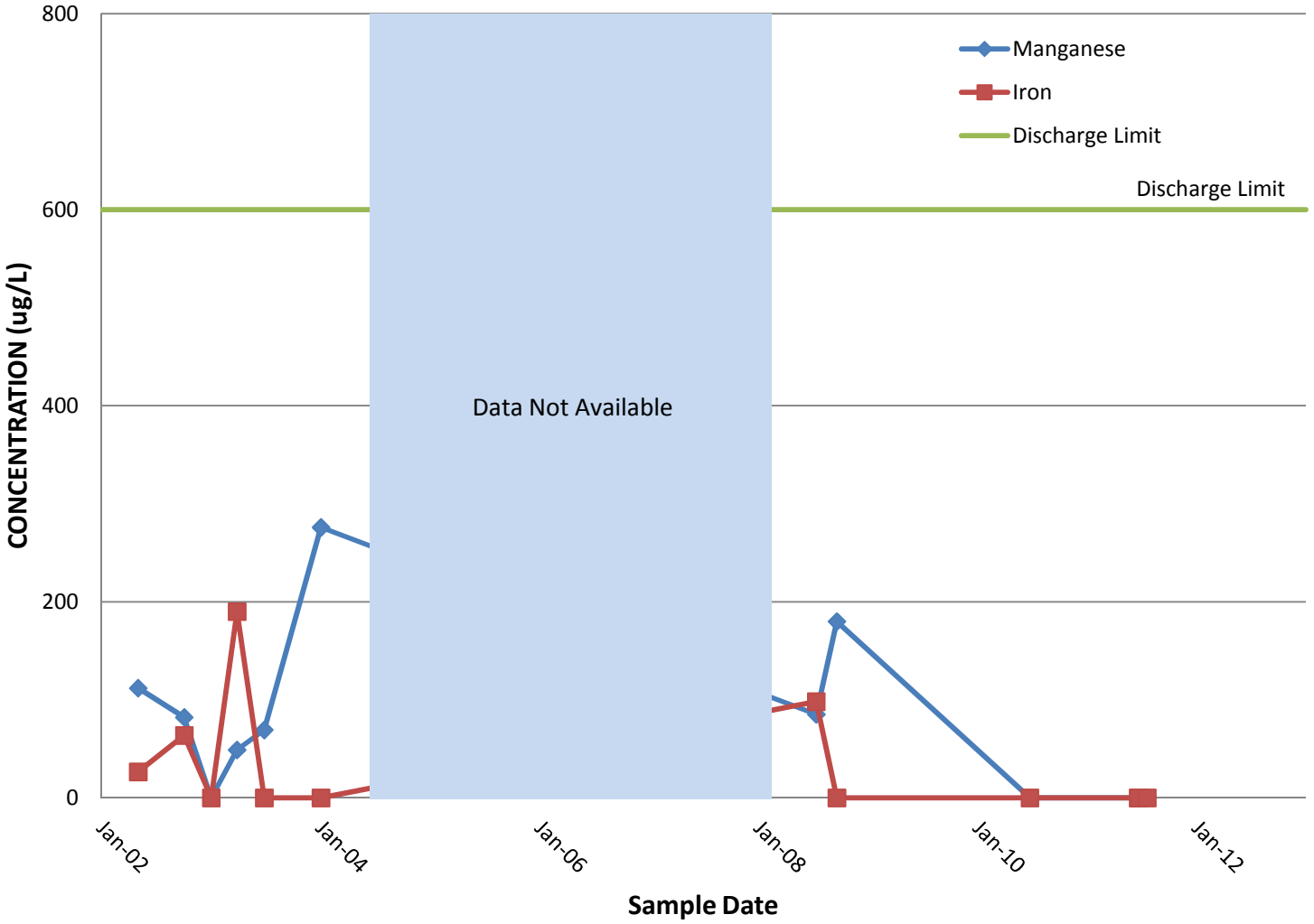


Chart 5a - PCE Concentrations In EW-1a

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

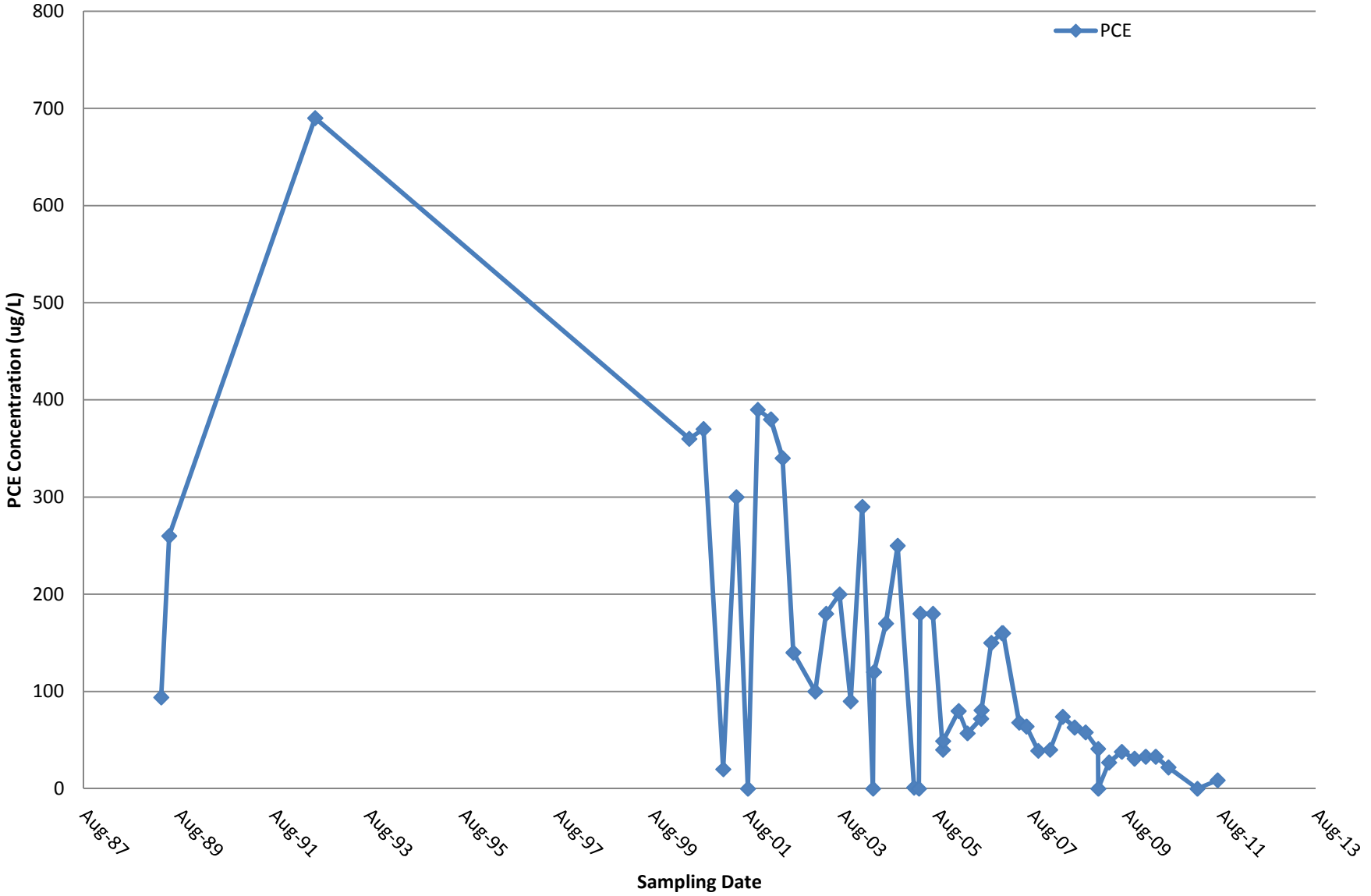


Chart 5b - PCE and TCE Concentrations in EW-4c

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

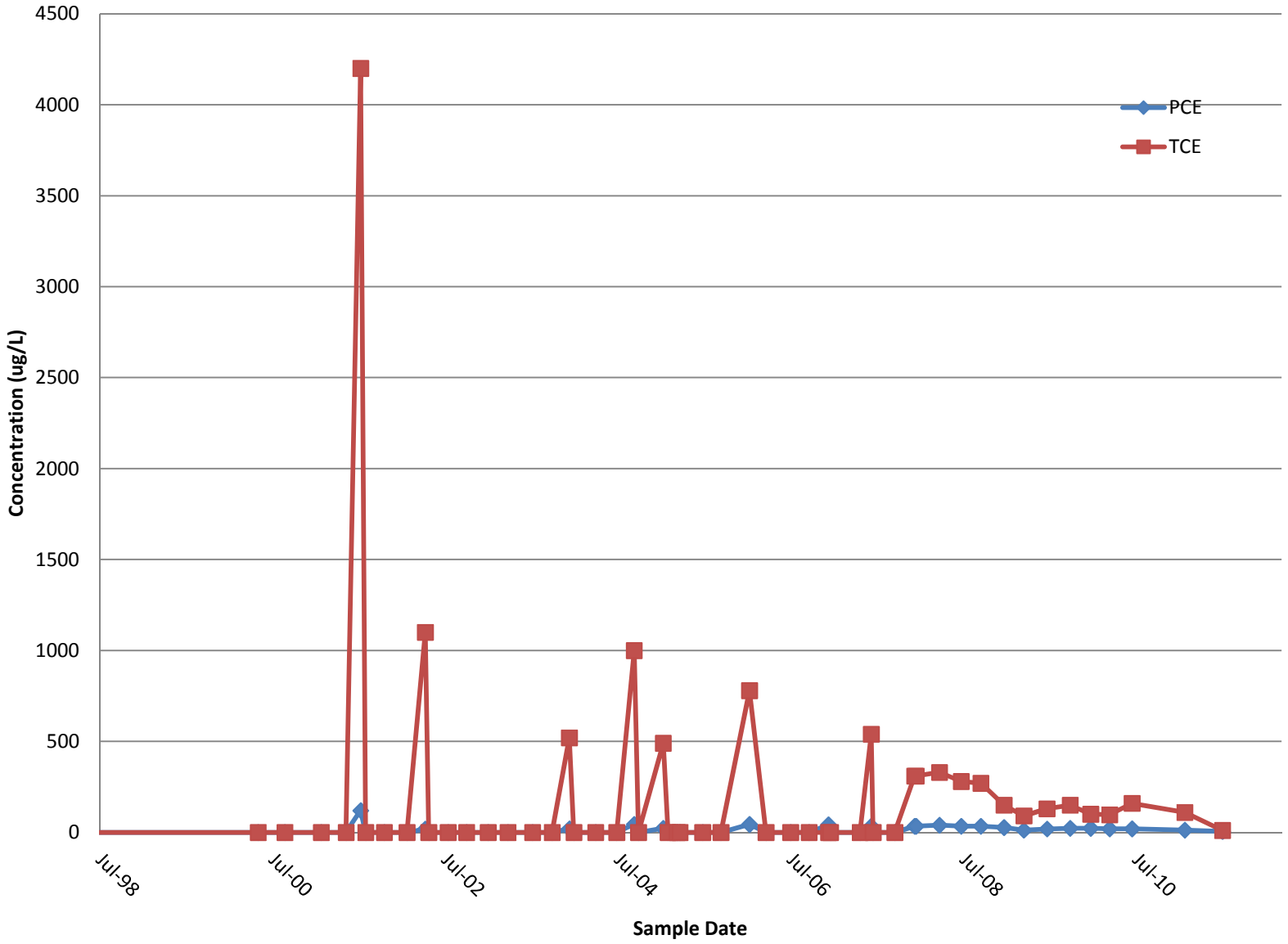


Chart 5c - PCE and TCE Concentrations in SW-1

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

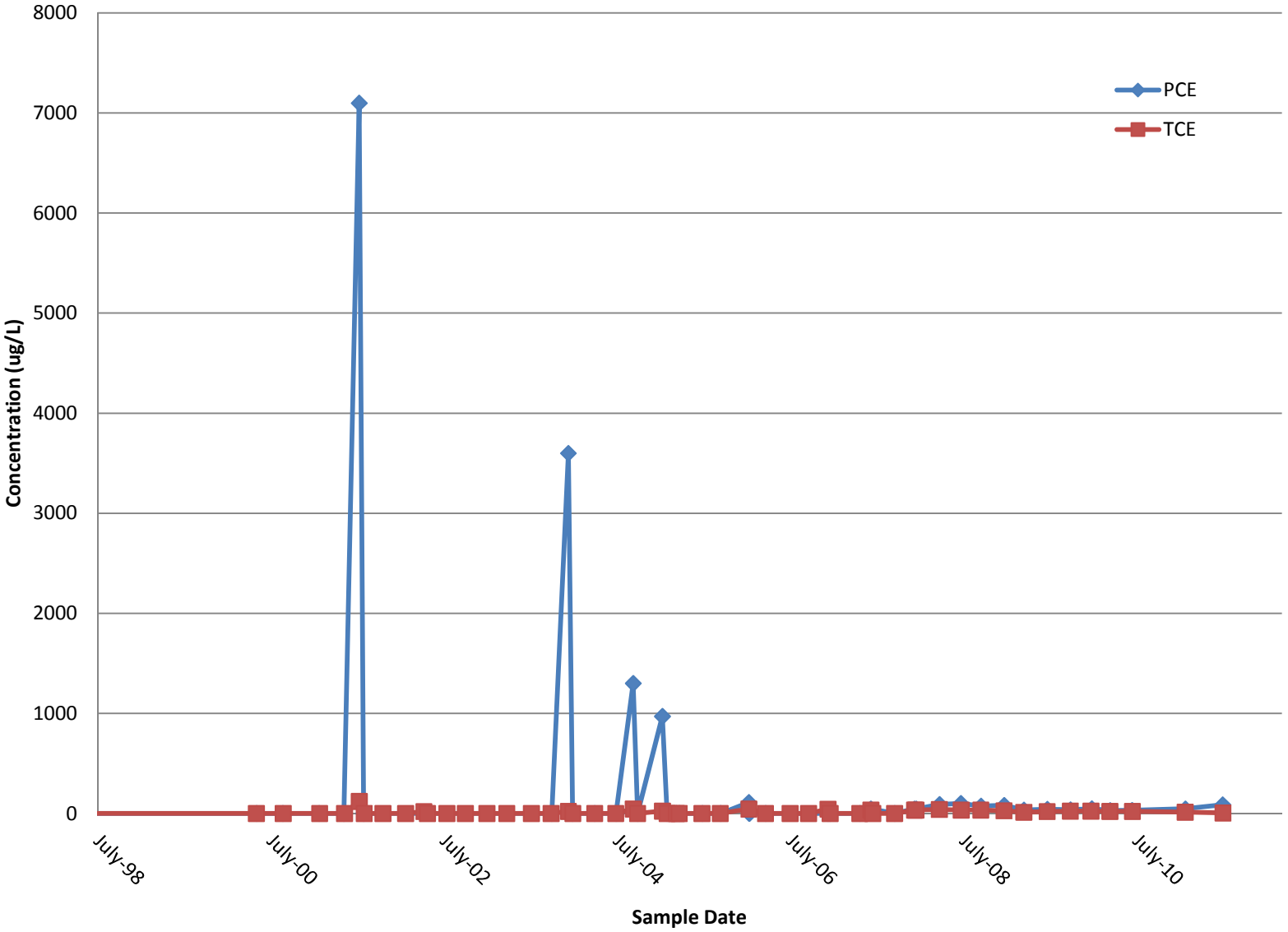


Chart 6a - EW-1a Iron and Manganese Concentrations

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

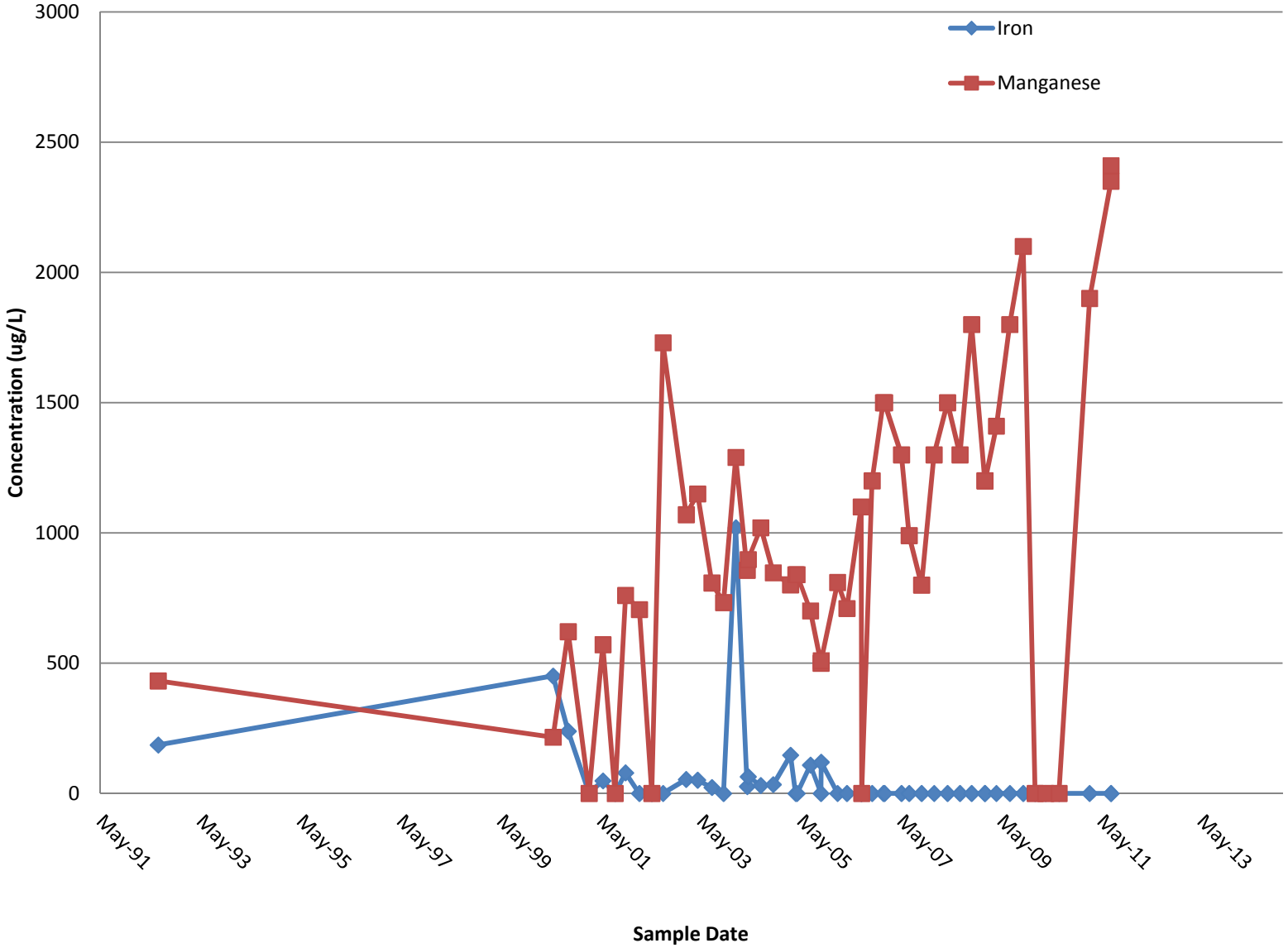


Chart 6b - EW-4c Iron and Manganese Concentrations

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19

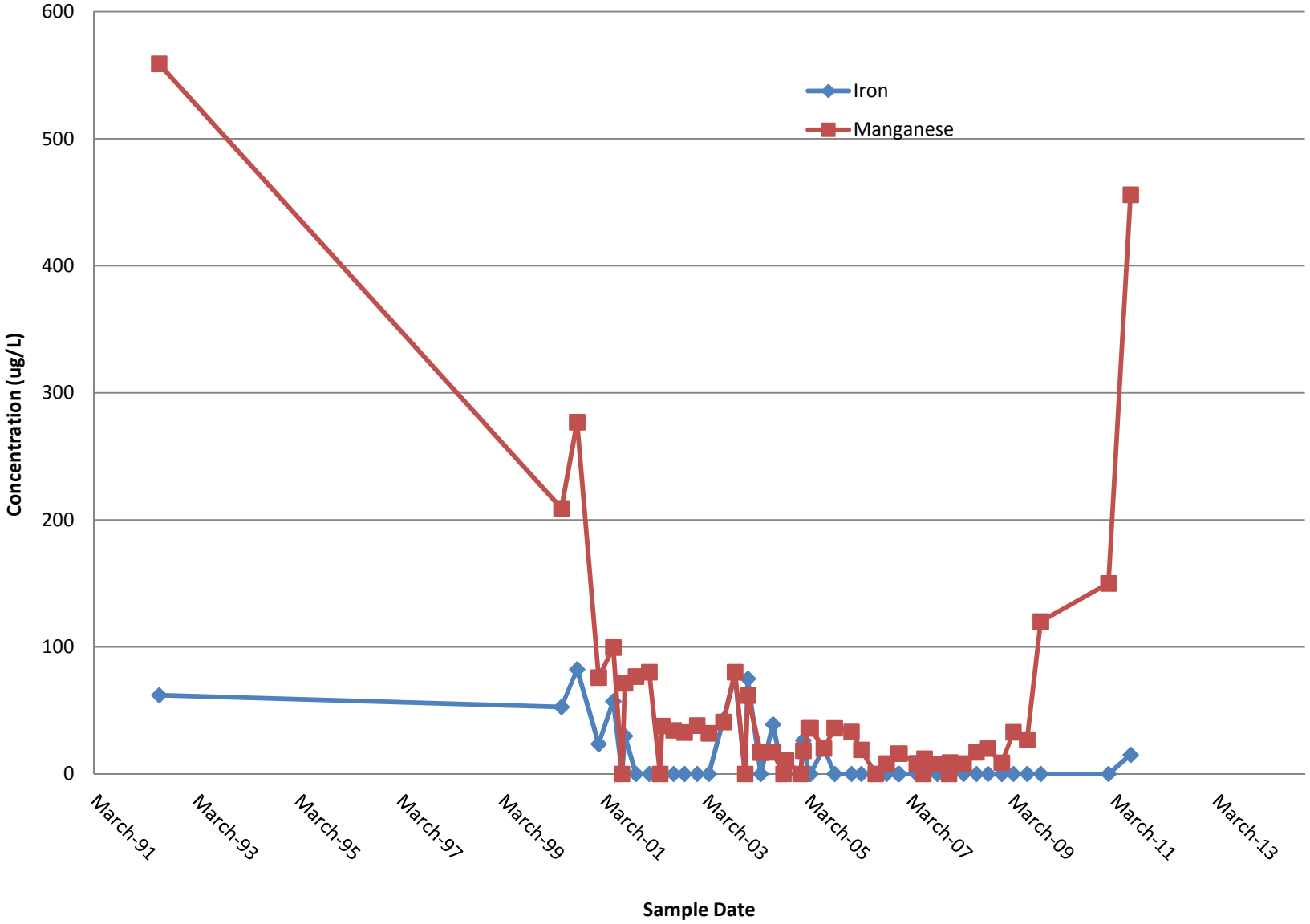
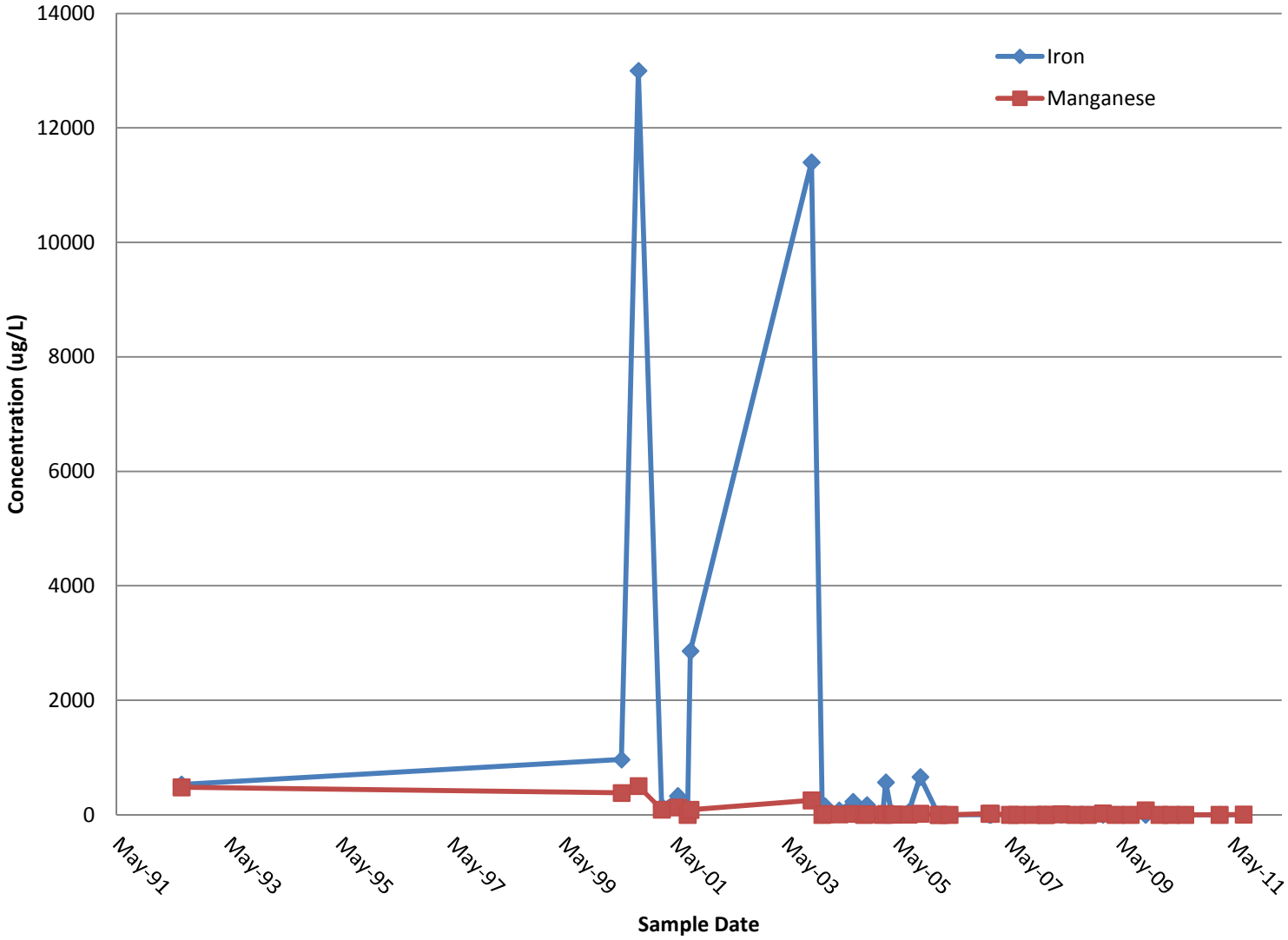


Chart 6c - SW-1 Iron and Manganese Concentrations

3rd Quarter 2011 Sampling Event, Claremont Polychemical Superfund Site, Old Bethpage, NY
HRP#NEW9625.OM, Site Code: 130015, WA# D006130-19



APPENDIX A

Groundwater Well Sampling Forms

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EXT-1	Weather:CLOUDY TEMP @ 64 DEGREES F
Sounding Method:	Gauge Date:8-16-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:07:35	Well Diameter (in):10"

Purge Date:	8/16/2011	Purge Time:	07:35
Purge Method:	PUMP	Field Technician:	

1) Well Depth (ft): 175'	4) Well Diameter (in): 10"	7) Five Well Volumes (gal):2,460
2) Depth to Water (ft):54.5	5) Well Volume / Foot (gal) (d^2x.0408): 4.08	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 120.5	6) Total Well Volume (gal) (3x5):491.64	Pump Type: MOTOR (10HP)

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
0720	54.5			4.61	209	15.5	75.3	4.84	5.0
0725	54.5			4.63	209	15	74.9	4.56	15.6
0730	54.5			4.65	209	14.9	74.9	4.51	25.7

Total Quantity of Water Removed (gal):	10 GAL	Sampling Time:	7:35
Samplers:		Split Sample With:	
Sampling Date:	8/16/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	NO PROBLEM AT WELL - SAMPLES TAKEN , QC TAKEN - 4 METALS/6 VOAS/2TSS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EXT-2	Weather:CLOUDY TEMP 64 DEGREES F
Sounding Method:	Gauge Date:8-16-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:0855	Well Diameter (in):10"

Purge Date:	8/16/2011	Purge Time:	08:55
Purge Method:		Field Technician:	

1) Well Depth (ft): 190'	4) Well Diameter (in): 10	7) Five Well Volumes (gal):
2) Depth to Water (ft):64.9	5) Well Volume / Foot (gal) (d^2x.0408):	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft):	6) Total Well Volume (gal) (3x5):	Pump Type: MOTOR (10 HP)

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
0830	64.9			4.39	268	14.6	52.1	7.06	36.3
0835	64.9			4.37	269	14.4	51.9	6.73	32.3
0840	64.9			4.36	271	14.3	51.8	6.64	20.8
0845	64.9			4.35	273	14.3	52	6.58	22.8
0850	64.9			4.36	274	14.2	51.7	6.64	35.7

Total Quantity of Water Removed (gal):	15 gal.	Sampling Time:	08:55
Samplers:		Split Sample With:	
Sampling Date:	8/16/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	NO PROBLEMS @ WELL - SAMPLES TAKEN - 1 METAL 3 VOAS/ 1 TSS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EXT-3	Weather:CLOUDY TEMP @ 65 DEGREES F.
Sounding Method:	Gauge Date:8-16-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	8/16/2011	Purge Time:	10:20
Purge Method:		Field Technician:	

1) Well Depth (ft): 194'	4) Well Diameter (in): 10"	7) Five Well Volumes (gal):
2) Depth to Water (ft):65.1	5) Well Volume / Foot (gal) (d^2x.0408):	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft):	6) Total Well Volume (gal) (3x5):	Pump Type: MOTOR (10 HP)

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
1000	65.1			4.21	309	16.6	46.7	8.19	.2
1005	65.1			4.23	303	16.5	46.7	7.85	0.7
1010	65.1			4.22	302	16.5	46.7	7.76	5.3
1015	65.1			4.23	299	16.5	46.7	7.79	4.9

Total Quantity of Water Removed (gal):	10 GAL	Sampling Time:	
Samplers:		Split Sample With:	
Sampling Date:	8/16/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	WATER WAS DISCOLORED AT FIRST, THEN CLEARED-NO PROBLEMS AT WELL, SAMPLES TAKEN - 1 METAL/2 VOAS/1 TSS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:BP-3A	TEMP @ 72 DEGREES C
Sounding Method:	Gauge Date:7-27-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:60 PSI	Well Diameter (in):

Purge Date:	7/27/2011	Purge Time:	11:30
Purge Method:	LOW FLOW	Field Technician:	

1) Well Depth (ft): 74	4) Well Diameter (in): 4"	7) Five Well Volumes (gal):41
2) Depth to Water (ft):61.40	5) Well Volume / Foot (gal) (d^2x.0408): 0.653	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 12.6	6) Total Well Volume (gal) (3x5):8.22	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
1010	62.48	1.00	260	4.05	315	13.7	6.6	10.11	93.7
1015	62.45	1.00	260	3.98	329	13.6	6.4	6.5	110
1020	62.45	1.00	260	3.94	336	13.4	6.4	9.87	116
1025	62.45	1.00	260	3.93	338	13.6	6.3	9.73	194
1030	62.45	0.5	260	3.91	308	13.6	6.3	9.63	195.1
1114									9
1118								0.063	6.4
1121									5.3

Total Quantity of Water Removed (gal):		Sampling Time:	11:30
Samplers:		Split Sample With:	
Sampling Date:		Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	METALS, VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:BP-3B	Weather:TEMP @ 70'S
Sounding Method:	Gauge Date: 8-1-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	8/1/2011	Purge Time:	9:35
Purge Method:	LOW FLOW	Field Technician:	

1) Well Depth (ft): 235'	4) Well Diameter (in): 4"	7) Five Well Volumes (gal):
2) Depth to Water (ft):65.22	5) Well Volume / Foot (gal) (d^2x.0408):	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft):	6) Total Well Volume (gal) (3x5):	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
09:10	65.22	.50	22.0	4.10	36.4	13.7	10.5	11.39	13.0
09:15	65.22	0.5	22.0	4.09	36.7	13.7	7.9	10.86	16.9
09:20	65.22	1	22.0	4.09	37.4	12.9	6.8	10.43	4.4
09:25	65.22	1	22.0	4.04	38.1	12.8	6.3	10.35	4.8
09:30	65.22	1	22.0	4.02	3.87	12.8	6.2	10.24	5.9

Total Quantity of Water Removed (gal):	4 GAL	Sampling Time:	9:40
Samplers:		Split Sample With:	TOB
Sampling Date:	8/1/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	NO PROBLEM @ WELL, SAMPLES TAKEN I METAL 3 VOAS/2 VOA (TOB)

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:BP-3C	Weather:TEMP @ 70'S
Sounding Method:	Gauge Date:08-1-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):4"

Purge Date:	8/1/2011	Purge Time:	8:25
Purge Method:	SLOW FLOW	Field Technician:	

1) Well Depth (ft): 300'	4) Well Diameter (in): 4"	7) Five Well Volumes (gal):
2) Depth to Water (ft):65.45	5) Well Volume / Foot (gal) (d^2x.0408):	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft):	6) Total Well Volume (gal) (3x5):	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
0750	65.45	.50	240	4.37	301	13.9	31.8	7.71	29.9
0755	65.45	.50	240	4.38	292	13.6	30.4	7	24.6
0800	65.45	.50	240	4.35	294	13.5	30	6.82	27
0805	65.45	.50	240	4.32	294	13.5	29.7	6.51	29.9
0810	65.45	.50	240	4.26	296	13.4	29.8	6.4	22
0815	65.45	.50	240	4.24	297	13.4	29.6	6.25	20
0820	65.45	1.0	240	4.23	298	13.4	29.7	6.14	15.4

Total Quantity of Water Removed (gal):	4 GAL	Sampling Time:	08:25
Samplers:		Split Sample With:	TOB
Sampling Date:	8/1/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	NO PROBLEMS AT WELL, SAMPLES TAKEN/ 1 METAL/3 VOAS/2 VOAS (TOB)

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.: DW-1	Weather: MILD DAY
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in): 4"

Purge Date:	7/25/2011	Purge Time:	12:50
Purge Method:	SLOW FLOW	Field Technician:	

1) Well Depth (ft): 98.5'	4) Well Diameter (in): 4"	7) Five Well Volumes (gal):302
2) Depth to Water (ft):6	5) Well Volume / Foot (gal) $0.6528(d^2 x .0408)$:	Depth/Height of Top of PVC:98.51
3) Height of H_2O Column (1-2) (ft): 92.51	6) Total Well Volume (gal) (3x5):60.39	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
12:05	64.76	.25	160ML	4.58	267	15.8	35.9	6.72	4.2
12:10	64.76	.25	160ML	4.5	267	15.3	37.8	5.74	4.3
12:15	64.76	.25	160ML	4.43	268	15	40.5	4.59	4.6
12:20	64.76	.25	160ML	4.36	269	15.1	42.3	3.48	4.6
12:25	64.76	0.5	160ML	4.35	263	15.1	44.6	3.03	4.4
12:30	64.76	0.5	160ML	4.32	265	15.2	45.5	2.89	4.4
12:35	64.76	0.5	160ML	4.32	264	15.3	45.9	2.77	5.2
12:40	64.76	0.5	160ML	4.32	263	15.2	46	2.7	4.8

Total Quantity of Water Removed (gal):	3 GAL	Sampling Time:	12:50
Samplers:		Split Sample With:	
Sampling Date:	7/25/2011	Sample Type:	

COMMENTS AND OBSERVATIONS:	METAL AND VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:DW-2	Weather:COOL -TEMP 71 DEGREES F
Sounding Method:	Gauge Date:7/26/11	Measurement Ref:
Stick Up/Down (ft):	50 PSI	Well Diameter (in): 4"

Purge Date:	7/26/2011	Purge Time:	
Purge Method:	LOW FLOW	Field Technician:	

100.72'	4) Well Diameter (in): 4"	7) Five Well Volumes (gal):98
70.75	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 29.97	6) Total Well Volume (gal) (3x5):19.56	Pump Type: PBC BLADER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
6:45	70.75	.50	180	4.29	327	15.4	43.7	6.68	3.5
6:50	70.75	.50	180	4.21	327	15.4	48.7	6.37	3.9
6:55	70.75	.50	180	3.9	346	15.3	57.8	6.2	3.2
7:00	70.75	.50	180	3.84	352	15.4	58.7	6.13	3.8
7:05	70.75	.50	180	3.81	353	15.4	58.7	6.09	4.9
7:10	70.75	.50	180	3.8	355	15.3	58.4	6.1	7.3

Total Quantity of Water Removed (gal):	3 GAL	Sampling Time:	7:20
Samplers:		Split Sample With:	NONE
Sampling Date:	7/26/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	DW-2 WELL IS DUMING WELL - NO PROBLEMS, NO DRAW DOWN, METALS, VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-1A	Weather:HOT AND HAZY
Sounding Method:	Gauge Date:7-22-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):4"

Purge Date:	7/22/2011	Purge Time:	7:25
Purge Method:	SLOW FLOW	Field Technician:	

1) Well Depth (ft): 73.50	4) Well Diameter (in): 4	7) Five Well Volumes (gal):42
2) Depth to Water (ft):63.53	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:76.5
3) Height of H_2O Column (1-2) (ft): 12.97	6) Total Well Volume (gal) (3x5):8.467	GEO TECH

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
7:10	63.53	1 GAL	230	3.18	478	13.9	53.6	9.38	0.3
7:15	63.53	1 GAL	230	3.1	478	13.8	53.8	9.42	1
7:20	63.53	1 GAL	230	3.13	478	13.8	53.9	9.21	1.8

Total Quantity of Water Removed (gal):	3 GAL	Sampling Time:	0725\0730
Samplers:		Split Sample With:	TOB
Sampling Date:	7/22/2011	Sample Type:	SLOW FLOW

COMMENTS AND OBSERVATIONS:	METALS & VOA

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID: EW-1B	Weather:
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	7/22/2011	Purge Time: 8:30	
Purge Method:	SLOW FLOW	Field Technician:	

1) Well Depth (ft): 102	4) Well Diameter (in): 4	7) Five Well Volumes (gal):-123
2) Depth to Water (ft):64.34	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:102
3) Height of H_2O Column (1-2) (ft): 37.66	6) Total Well Volume (gal) (3x5):2-658	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
7:55	64.34	1/2 GAL	240	4.28	4.11	14.7	67.4	5.06	2.0
8:00	64.34	1/2 GAL	240	4.28	4.11	14.8	67.4	4.85	2.6
8:05	64.34	1/2 GAL	240	431	4.09	14.8	68.4	5	2
8:10	64.34	1/2 GAL	240	4.33	4.08	14.8	69.1	4.69	2.2
8:15	64.34	1/2 GAL	240	4.35	4.06	14.4	70.3	4.53	2.2
8:20	64.34	1/2 GAL	240	4.36	4.04	14.9	71.4	4.57	2.3

Total Quantity of Water Removed (gal):	3 GAL	Sampling Time:	8:30
Samplers:		Split Sample With:	TOB
Sampling Date:	7/22/2011	Sample Type:	LOW FLOW

COMMENTS AND OBSERVATIONS:	METALS & VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-1C	Weather:HOT
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):4

Purge Date:	7/22/2011	Purge Time:	9:20
Purge Method:	SLOW FLOW	Field Technician:	

1) Well Depth (ft): 125	4) Well Diameter (in): 4	7) Five Well Volumes (gal):198
2) Depth to Water (ft):64.40	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:125
3) Height of H_2O Column (1-2) (ft): 60.6	6) Total Well Volume (gal) (3x5):39.56	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
8:55	64.40	1/2 GAL	240	4.22	378	14.7	0.137	4.92	.7
9:00	64.40	1/2 GAL	240	4.53	368	14.3	0.097	3.564	1.3
9:05	64.40	1 GAL	240	4.55	365	14.3	0.095	3.35	1.2
9:10	64.40	1 GAL	240	4.56	366	14.7	0.095	3.15	4

Total Quantity of Water Removed (gal):	3 GAL	Sampling Time:	9:20
Samplers:		Split Sample With:	TOB
Sampling Date:	7/21/2011	Sample Type:	PURGE

COMMENTS AND OBSERVATIONS:	METALS & VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-2A	Weather: RATHER COOL
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	7/25/2011	Purge Time:	8:20
Purge Method:	LOW FLOW	Field Technician:	

1) Well Depth (ft): 108.5	4) Well Diameter (in): 4	7) Five Well Volumes (gal):52.58
2) Depth to Water (ft):92.40	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:108.5
3) Height of H_2O Column (1-2) (ft): 16.1	6) Total Well Volume (gal) (3x5):10.51	Pump Type: BLADDER PUMP

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
8:00	92.40	1/4 GAL	90 ML	4.19	21	16.7	10.1	3.83	17.0
8:05	92.40	1/4 GAL	90 ML	4.19	31	16.6	10.3	3.59	15.7
8:10	92.40	1/4 GAL	90 ML	4.19	33	16.6	10.2	3.46	15.7
8:15	92.40	1/4 GAL	90 ML	4.18	41	16.7	10.1	3.22	18

Total Quantity of Water Removed (gal):	1 GAL	Sampling Time:	8:20
Samplers:		Split Sample With:	TOB
Sampling Date:	7/25/2011	Sample Type:	

COMMENTS AND OBSERVATIONS:	

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-2B	Weather:RAINING, TEMP 71 DEGREES F.
Sounding Method:	Gauge Date:7-29-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:60 PSI	Well Diameter (in):4

Purge Date:	7/29/2011	Purge Time:	
Purge Method:	LOW FLOW	Field Technician:	

1) Well Depth (ft): 129.50	4) Well Diameter (in): 4	7) Five Well Volumes (gal):119
2) Depth to Water (ft):93	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 36.5	6) Total Well Volume (gal) (3x5): 23.82	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
7:10	93.0	.50	270	6.88	180	15.6	28.4	8.88	108
7:15	93	.50	270	7.88	148	14.5	27.2	5.01	74
7:20	93.15	.50	270	8.1	134	14.5	27.2	4.26	52.2
7:25	93.25	.50	270	8.22	123	13.9	27.2	3.94	44.1
7:30	93.9	.50	270	8.29	113	13.8	26.6	3.86	26.2
7:35	93.9	.50	270	8.32	111	13.9	26.4	3.77	25
7:40	93.9	.25	270	8.34	107	13.9	26.7	3.61	26.1
7:45	93.9	.25	270	8.35	104	13.8	27	3.58	28
7:50	93.9	.50	270	8.36	102	13.7	27	3.61	26

Total Quantity of Water Removed (gal):	4	Sampling Time:	7:55
Samplers:		Split Sample With:	TOB
Sampling Date:	7/29/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	1 METAL/3 VOAS/2 VOAS (TOB)

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-2C	Weather:
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in): 4

Purge Date:	7/25/2011	Purge Time:	9:50
Purge Method:	LOW FLOW	Field Technician:	

1) Well Depth (ft): 149.50	4) Well Diameter (in): 4	7) Five Well Volumes (gal):187
2) Depth to Water (ft):92.33	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:149.50
3) Height of H_2O Column (1-2) (ft): 57.15	6) Total Well Volume (gal) (3x5):37.31	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
9:20	92.35	0.25	220	3.84	305	15.5	51.1	10.71	13.8
9:25	92.35	0.25	220	3.65	316	15.1	51	10	4.6
9:30	92.65	0.25	220	3.54	322	15.1	52	9.75	2.7
9:35	92.7	0.25	220	3.46	328	14.9	53	9.68	3.6
9:40	92.7	0.25	220	3.42	332	14.5	53.1	9.67	4.9
9:45	92.92	0.25	220	3.39	337	14.7	52.8	9.64	8.6

Total Quantity of Water Removed (gal):	1 GAL	Sampling Time:	9:50
Samplers:	7/25/2011	Split Sample With:	TOB
Sampling Date:		Sample Type:	

COMMENTS AND OBSERVATIONS:	METALS & VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID: EW-2D	Weather: SUNNY 70 DEGREES F.
Sounding Method:	Gauge Date: 7-27-12	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	7/27/2011	Purge Time:	7:08
Purge Method:	BLADDER (DEDICATED)	Field Technician:	

1) Well Depth (ft): 301.40	4) Well Diameter (in): 4'	7) Five Well Volumes (gal): 681
2) Depth to Water (ft):92.66	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 208.74	6) Total Well Volume (gal) (3x5):136.27	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
7:12	92.70		220	4.60	283	15.9	0.137	7.33	1.7
7:17	92.83		220	4.9	287	14.72	0.110	2.21	1.6
7:22	92.86		220	4.84	288	14.63	0.105	3.39	4.1
7:27	92.86		220	4.81	288	14.57	0.097	5.37	6
7:32	92.86		220	4.79	293	14.56	0.096	5.92	5.7
7:37	92.86		220	4.83	297	14.49	0.096	6.35	3
7:42	92.86		220	4.84	302	14.49	0.098	6.43	2.4

Total Quantity of Water Removed (gal):	7700 ML	Sampling Time:	7:43
Samplers:		Split Sample With:	
Sampling Date:	7/27/2011	Sample Type:	VOC'S & METALS

COMMENTS AND OBSERVATIONS:	160 PSI, 6.5 INTAKE, 8.5 DISCHARGE

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-3A	Weather:TEMP 90 DEGREES F.
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	7/22/2011	Purge Time:	10:50
Purge Method:		Field Technician:	

1) Well Depth (ft): 106.00	4) Well Diameter (in): 4"	7) Five Well Volumes (gal):3424
2) Depth to Water (ft):95.51	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:106
3) Height of H_2O Column (1-2) (ft): 10.49	6) Total Well Volume (gal) (3x5):6.848	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
10:20	95.51	1/2 GAL	120 ML	4.08	3.08	15	4.5	13.57	23.4
10:25	95.51	1/2 GAL	120 ML	3.85	3.35	15.2	4.5	12.55	17.5
10:30	95.51	1/2 GAL	120 ML	3.73	3.61	15.2	4.4	12.41	4.4
10:35	95.51	1/2 GAL	120 ML	3.66	3.78	15.2	4.5	12.14	31
10:40	95.51	1/2 GAL	120 ML	3.62	3.87	15.3	4.4	12.21	25
10:45	95.51	1/2 GAL	120 ML	3.69	3.94	15	4.4	12.25	33

Total Quantity of Water Removed (gal):	3 gal	Sampling Time:	10:50
Samplers:		Split Sample With:	TOB
Sampling Date:	7/22/2011	Sample Type:	

COMMENTS AND OBSERVATIONS:	METALS & VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-3B	Weather:97 degrees F.
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	7/22/2011	Purge Time:	11:25
Purge Method:	LOW FLOW	Field Technician:	

1) Well Depth (ft): 136.80	4) Well Diameter (in): 4	7) Five Well Volumes (gal):134
2) Depth to Water (ft):95.81	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:136.86
3) Height of H_2O Column (1-2) (ft): 41.05	6) Total Well Volume (gal) (3x5):26.80	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
11:25	95.81	1 GAL.	120	3.37	435	16.9	6.7	10.0	.4
11:20	95.81	1/2 GAL	120	3.34	433	16.4	6.8	10.33	2.2
11:25	95.81	1/2 GAL	120	3.35	434	16.1	6.8	10.66	3.1
11:30	95.81	1 GAL.	120	3.33	435	16.4	6.8	10.66	3.5

Total Quantity of Water Removed (gal):	3	Sampling Time:	11:35
Samplers:		Split Sample With:	TOB
Sampling Date:	7/22/2011	Sample Type:	

COMMENTS AND OBSERVATIONS:	METALS & VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-3C	Weather:100 DEGREES F.
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	7/22/2011	Purge Time:	12:35
Purge Method:	LOW FLOW	Field Technician:	

1) Well Depth (ft): 165.85	4) Well Diameter (in): 4	7) Five Well Volumes (gal):229
2) Depth to Water (ft):95.60	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 70.25	6) Total Well Volume (gal) (3x5):45.86	Pump Type: PVC BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
12:35	95.60	1/2 GAL.	260 ML	4.01	420	14.1	38.7	13.77	23.3
12:40	95.60	1/2 GAL.	260 ML	4.01	425	13.7	35.8	12.51	15.2
12:45	95.60	1/2 GAL.	260 ML	3.58	447	13.9	46.9	11.29	7.4
12:50	95.60	1/2 GAL.	260 ML	3.41	448	14.1	56.3	10.92	5.4
12:55	95.60	1/2 GAL.	260 ML	3.36	448	14.6	57.4	10.71	5.6
13:00	95.60	1/2 GAL.	260 ML	3.32	448	14	58.6	10.73	5.1

Total Quantity of Water Removed (gal):	3	Sampling Time:	13:05
Samplers:		Split Sample With:	TOB
Sampling Date:	7/22/2011	Sample Type:	

COMMENTS AND OBSERVATIONS:	METALS & VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-4A	Weather:
Sounding Method:	Gauge Date:7-26-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:9:45	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	9:50
Purge Method:	LOW FLOW	Field Technician:	

1) Well Depth (ft): 116.60	4) Well Diameter (in): 4	7) Five Well Volumes (gal):70
2) Depth to Water (ft):95.11	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 21.49	6) Total Well Volume (gal) (3x5):14.03	Pump Type: PVC BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
9:20	95.60	.50	240	4.12	364	14.6	13.0	9.71	5.5
9:25	95.60	.50	240	3.99	380	14.3	12.6	9.43	6.8
9:30	95.60	.50	240	3.98	381	14.3	12.6	9.44	6.8
9:35	95.60	.50	240	3.96	384	14.4	12.6	9.42	7.6
9:40	95.60	1	240	3.94	384	14.5	12.6	9.25	8.5

Total Quantity of Water Removed (gal):	3	Sampling Time:	9:50
Samplers:		Split Sample With:	
Sampling Date:	7/26/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	METALS, VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-4B	Weather:
Sounding Method:	Gauge Date:7-26-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:10:40	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	10:45
Purge Method:		Field Technician:	

1) Well Depth (ft): 131.71	4) Well Diameter (in): 4	7) Five Well Volumes (gal):117.4
2) Depth to Water (ft):95.75	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 35.96	6) Total Well Volume (gal) (3x5):23.5	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	Gonductivit: (uS/cm)	DO (ug/L)	Turbidity (ntu)
10:05	95.72	.25	140	4.00	208	15.6	22.8	7.90	8.2
10:10	95.72	.25	140	3.97	243	15.1	22.2	7.62	5.7
10:15	95.72	.25	140	3.95	265	15.1	21.9	7.56	5.6
10:20	95.72	.25	140	3.96	307	15.4	21.8	7.37	5.8
10:25	95.72	.25	140	3.96	310	15.2	21.7	7.456	5.7
10:30	95.72	.25	140	3.95	316	15.5	21.7	7.39	5.4
10:35	95.72	.25	140	3.93	327	15.8	21.8	7.51	5.5

Total Quantity of Water Removed (gal):	1	Sampling Time:	10:40
Samplers:		Split Sample With:	
Sampling Date:	7/26/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	METALS & VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-4C	Weather:
Sounding Method:	Gauge Date: 7/26/2011	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:12:05	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	12:10
Purge Method:		Field Technician:	

1) Well Depth (ft): 157	4) Well Diameter (in): 4	7) Five Well Volumes (gal):202
2) Depth to Water (ft):95	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 62	6) Total Well Volume (gal) (3x5):40.5	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	Gonductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
11:25	95	.25	160	4.30	347	16.5	41.7	10.46	20.7
11:30	95	.25	160	4.15	347	16.1	46.9	8.74	15.4
11:35	95	.25	160	3.98	353	16.8	48.6	7.04	4.1
11:40	95	.25	160	3.93	355	15.9	51.9	6.84	4.8
11:45	95	.25	160	3.92	356	15.7	52.2	6.35	4.7
11:50	95	.25	160	3.92	357	15.6	52.1	6.06	2.2
11:55	95	.25	160	3.93	357	15.6	52	6.03	4.3
12:00	95	.25	160	3.93	358	15.5	52	6	4.3

Total Quantity of Water Removed (gal):	2	Sampling Time:	12:10
Samplers:		Split Sample With:	
Sampling Date:	7/26/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	METALS, VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.: EW-4D	Weather: OVERCAST 70 DEGREES F.
Sounding Method:	Gauge Date:7-25-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:9:04	Well Diameter (in):4

Purge Date:	7/25/2011	Purge Time:	9:15
Purge Method:		Field Technician:	

1) Well Depth (ft): 295	4) Well Diameter (in): 4	7) Five Well Volumes (gal):650
2) Depth to Water (ft):95.61	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 199.39	6) Total Well Volume (gal) (3x5):130.16	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	Gonductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
9:25	95.64		260	4.74	308	16.41	24.8	6.38	1.3
9:30	95.64		260	4.98	319	15.63	23.1	4.36	1.7
9:35	95.64		260	4.93	333	15.66	20.8	5.53	0.8
9:40	95.64		260	4.88	338	15.55	20.4	5.65	0.8
9:45	95.64		260	4.97	342	15.55	20.8	5.7	0.7
9:50	95.64		260	4.95	341	15.48	20.8	5.74	0.7
9:55	95.64		260	4.93	341	15.57	20.8	5.8	0.8

Total Quantity of Water Removed (gal):	10,660ML	Sampling Time:	09:56
Samplers:		Split Sample With:	
Sampling Date:	7/25/2011	Sample Type:	VOC'S & METALS

COMMENTS AND OBSERVATIONS:	159 PSI, 5.0 INTAKE, 10.0 DISCHARGE

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-5	Weather:TEMP 70 DEGREES
Sounding Method:	Gauge Date:7-26-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:70 PSI	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	8:55
Purge Method:	LOW FLOW	Field Technician:	

1) Well Depth (ft): 178.87	4) Well Diameter (in):	7) Five Well Volumes (gal):352
2) Depth to Water (ft): 70.95	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 107.92	6) Total Well Volume (gal) (3x5): 70.5	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
8:00	70.95	.25	160	4.98	191	17.1	5.7	4.70	4.2
8:05	70.95	.25	160	4.96	139	17.1	5.9	3.69	4.4
8:10	70.95	.25	160	4.85	173	17.1	10.4	3.33	4.3
8:15	71.1	.25	160	4.79	191	17.2	14.3	3.2	4.2
8:20	71.1	.25	160	4.77	205	17.2	15.6	3.12	4.1
8:25	71.1	.25	160	4.76	213	17.6	16.3	3.04	3.7
8:30	71.1	.25	160	4.76	216	17.4	16.1	3	4.1
8:35	71.1	.25	160	4.76	217	17.6	14.9	2.91	3.9
8:40	71.1	.25	160	4.75	214	17.8	14.9	2.89	3.6
8:45	71.1	.25	160	4.75	212	17.9	14.9	2.88	3.5

Total Quantity of Water Removed (gal):	2-1/2 GAL	Sampling Time:	8:55
Samplers:		Split Sample With:	
Sampling Date:	7/26/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	NO PROBLEM AT WELL - PUMPED QUICKLY, METAL, VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-6A	Weather:
Sounding Method:	Gauge Date:7/20/11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	1:55
Purge Method:	BLADDER	Field Technician:	

1) Well Depth (ft): 71	4) Well Diameter (in):	7) Five Well Volumes (gal):
2) Depth to Water (ft):62.38	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft):8.62	6) Total Well Volume (gal) (3x5):5.62	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivit:y (uS/cm)	DO (ug/L)	Turbidity (ntu)
2:00	62.42		200	5.35	223	23.52	.648	9.41	19.6
2:05	62.42		200	5.18	238	20.34	0.497	9.5	10
2:10	62.42		200	5.15	250	19.3	0.478	7.13	6.2
2:15	62.42		200	5.13	254	19.17	0.472	6.8	5
2:20	62.42		200	5.19	255	19.34	0.473	6.61	4.2

Total Quantity of Water Removed (gal):	5400 ml	Sampling Time:	2:21
Samplers:		Split Sample With:	
Sampling Date:	7/26/2011	Sample Type:	

COMMENTS AND OBSERVATIONS:	45 PSI, 10 intake, 5 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-6C	Weather: M Cloudy 75 Degrees F
Sounding Method:	Gauge Date: 7/28/11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:12:00	Well Diameter (in):

Purge Date:	7/28/2011	Purge Time:	12:08
Purge Method:	Bladder (POC-2)	Field Technician:	

1) Well Depth (ft): 169	4) Well Diameter (in): 4	7) Five Well Volumes (gal): 345
2) Depth to Water (ft):63.25	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 105.75	6) Total Well Volume (gal) (3x5):69.03	Pump Type: Bladder (POC-2)

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivit:y (uS/cm)	DO (ug/L)	Turbidity (ntu)
12:11	62.99		200	6.11	4	21.97	0.317	8.52	3.2
12:16	63.22		200	6.28	-18	19.94	0.328	5.66	1.9
12:21	63.47		200	6.31	-24	19.04	0.436	3.45	1.3
12:26	63.62		110	6.32	-23	19.18	0.482	2.73	1.1
12:31	63.76		110	6.37	-20	19.2	0.499	2.33	1.1
12:36	63.82		110	6.35	-8	19.06	0.505	1.99	1.4
12:41	63.89		110	6.4	-3	19.04	0.506	1.96	1.5
12:46	63.92		110	6.34	-4	19.12	0.506	2.06	1.5

Total Quantity of Water Removed (gal):	4910 mL	Sampling Time:	12:47
Samplers:		Split Sample With:	
Sampling Date:	9/28/2011	Sample Type:	voc's & metals

COMMENTS AND OBSERVATIONS:	70 psi, 8.0 intake, 7.0 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-7C	Measurement Ref: MOSTLY SUNNY 80 DEGREES F.
Sounding Method:	Gauge Date:7-26-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:11:41	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	11:48
Purge Method:	BLADDER (DEDICATED)	Field Technician:	

1) Well Depth (ft): 199.50	4) Well Diameter (in): 4	7) Five Well Volumes (gal):368
2) Depth to Water (ft):86.75	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 112.75	6) Total Well Volume (gal) (3x5):73.60	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
11:50	86.88		200	4.74	330	17.45	1.33	3.12	2.1
11:55	86.88		200	4.62	344	16.42	1.26	3.34	1.4
12:00	86.88		200	4.54	362	16.54	1.29	4.5	0.4
12:05	86.88		200	4.53	371	16.7	1.37	5.09	0.3
12:10	86.88		200	4.53	376	16.92	1.41	5.24	0.3
12:15	86.87		200	4.54	378	16.99	1.42	5.23	0.3
12:20	86.87		200	4.54	378	17.2	1.43	5.19	0.3

Total Quantity of Water Removed (gal):	6600 mL	Sampling Time:	12:21
Samplers:		Split Sample With:	
Sampling Date:	7/26/2011	Sample Type:	voc's & metals

COMMENTS AND OBSERVATIONS:	105 psi, 8.0 intake, 7.0 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-7D	Weather:PART SUNNY 80 DEGREES F.
Sounding Method:	Gauge Date:7-26-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:10.49	Well Diameter (in):4"

Purge Date:	7/26/2011	Purge Time:	10:54
Purge Method:	BLADDER (DEDICATED)	Field Technician:	

1) Well Depth (ft): 283.5	4) Well Diameter (in): 4"	7) Five Well Volumes (gal): 642
2) Depth to Water (ft):86.78	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 196.72	6) Total Well Volume (gal) (3x5):128.42	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
10:58	86.87		200	4.90	312	16.90	.269	4.25	.5
11:03	86.87		200	5.01	301	16.27	0.29	2.13	0.2
11:08	86.87		200	4.85	288	16.31	0.289	2.76	0.2
11:43	86.87		200	4.81	303	16.39	0.287	3.2	0.2
11:18	86.87		200	4.79	313	16.31	0.289	3.34	0.2
11:23	86.87		200	4.82	320	16.37	0.291	3.32	0.2
11:28	86.87		200	4.84	322	16.38	0.292	3.35	0.2

Total Quantity of Water Removed (gal):	7000 mL	Sampling Time:	11:29
Samplers:		Split Sample With:	voc's & metal
Sampling Date:	7/26/2011	Sample Type:	

COMMENTS AND OBSERVATIONS:	81 psi, 8.0 intake, 7.0 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-8D	Weather: P. SUNNY 75 DEGREES F, OVERCAST
Sounding Method:	Gauge Date:7-26-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:9:12	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	9:19
Purge Method:	BLADDER (DEDICATED)	Field Technician:	

1) Well Depth (ft): 242	4) Well Diameter (in): 4	7) Five Well Volumes (gal):579
2) Depth to Water (ft):64.60	5) Well Volume / Foot (gal) (d^2x.0408):.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 177.40	25	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
5:31	64.69		260	4.77	311		0.137	1.53	38.4
6:43	64.69		260	4.66	264		0.146	4.95	31.5
7:55	64.69		260	4.64	295		0.148	6.05	3.7
9.38	64.7		260	4.6	315		0.148	6.18	4.7
9.43	64.71		260	4.61	323		0.149	6.28	9.4
9.48	64.72		260	4.64	326		0.148	6.3	11.4
9.53	64.73		260	4.63	332		0.148	6.25	10.8

Total Quantity of Water Removed (gal):	9100 m L	Sampling Time:	9:54
Samplers:		Split Sample With:	
Sampling Date:	7/26/2011	Sample Type:	VOC'S & METALS

COMMENTS AND OBSERVATIONS:	138 PSI, 8.0 INTAKE, 7.0 DISCHARGE

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-9D	Weather:P SUNNY 75 DEGREES F.
Sounding Method: WATER TAPE	Gauge Date:7-26-11	Measurement Ref: TOP COLUMN (TOC)
Stick Up/Down (ft):	Gauge Time:10:06	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	10:15
Purge Method:	BLADDER (DEDICATED)	Field Technician:	

1) Well Depth (ft): 2.54	4) Well Diameter (in): 4	7) Five Well Volumes (gal):598
2) Depth to Water (ft):70.65	5) Well Volume / Foot (gal) (d^2x.0408): .06528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 183.35	6) Total Well Volume (gal) (3x5):119.9	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
10:18	70.83		240	4.84	323	16.61	0.137	3.62	4.0
10:23	70.83		240	4.99	315	16.24	0.138	3.55	1.2
10:28	70.83		240	4.95	316	16.24	0.155	4.54	0.3
10:33	70.83		240	4.94	315	16.32	0.158	5.26	0.2
10:38	70.83		240	4.95	316	16.34	0.16	5.21	0.3

Total Quantity of Water Removed (gal):	5760mL	Sampling Time:	10:39
Samplers:		Split Sample With:	
Sampling Date:	7/26/2011	Sample Type:	voc's & metals

COMMENTS AND OBSERVATIONS:	142 psi, 7.5 intake, 7.5 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-10C	Weather: OVERCAST 70 DEGREES F. SLIGHT BREEZE
Sounding Method:	Gauge Date:7-25-11	Measurement Ref: TOP OF COLUMN (TOC)
Stick Up/Down (ft):	Gauge Time:10:05	Well Diameter (in):4

Purge Date:	7/25/2011	Purge Time:	10:14
Purge Method:	BLADDER (DEDICATED)	Field Technician:	

1) Well Depth (ft): 150	4) Well Diameter (in): 4	7) Five Well Volumes (gal):165
2) Depth to Water (ft):93.61	5) Well Volume / Foot (gal) (d^2x.0408): 0.6578	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 56.39	6) Total Well Volume (gal) (3x5): 36.81	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
10:18	93.61		200	4.70	335	16.58	.311	8.33	1.0
10:23	93.61		200	4.71	349	16.41	0.295	8.23	0.4
10:28	93.61		200	4.70	354	16.47	0.264	8.23	0.6
10:33	93.62		200	4.74	349	16.67	0.241	8.11	0.3
10:38	93.62		200	4.76	351	16.57	0.233	8.06	0.3
10:43	93.62		200	4.75	347	16.96	0.232	8.04	0.2

Total Quantity of Water Removed (gal):	6000 mL	Sampling Time:	10:44
Samplers:		Split Sample With:	
Sampling Date:	7/25/2011	Sample Type:	voc's & metals

COMMENTS AND OBSERVATIONS:	90 psi, 10.0 intake, 6.0 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-11D	Weather: Overcast, 75 DEGREES F. slight breeze
Sounding Method: WATER TAPE	Gauge Date:7-25-11	Measurement Ref: OP OF COLUMN
Stick Up/Down (ft):	Gauge Time: 1:33	Well Diameter (in):4

Purge Date:	7/25/2011	Purge Time:	1:38
Purge Method:	BLADDER (DEDICATED)	Field Technician:	

1) Well Depth (ft): 280	4) Well Diameter (in): 4	7) Five Well Volumes (gal): 585
2) Depth to Water (ft):100.16	5) Well Volume / Foot (gal) (d^2x.0408):.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 179.84	6) Total Well Volume (gal) (3x5):117.39	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
1:40	100.29		220	5.03	323	15.51	.605	8.02	0.1
1:45	100.30		220	5.05	324	14.98	0.599	7.53	0.1
1:50	100.30		220	5.1	321	15.12	0.597	7.35	0.2
1:55	100.30		220	5.15	316	15.13	0.594	7.08	0

Total Quantity of Water Removed (gal):	3960 mL	Sampling Time:	1:56
Samplers:		Split Sample With:	
Sampling Date:	7/25/2011	Sample Type:	voc's & metals

COMMENTS AND OBSERVATIONS:	153 psi, 6.5 intake, 8.5 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-12D	Weather:OVERCAST 75 DEGREES F. BREEZY
Sounding Method: WATER TAPE	Gauge Date: 7-25-11	
Stick Up/Down (ft):	Gauge Time:12:44	Well Diameter (in):4

Purge Date:	7/25/2011	Purge Time:	12:51
Purge Method:	BLADDER	Field Technician:	

1) Well Depth (ft): 220.0	4) Well Diameter (in): 4	7) Five Well Volumes (gal):395
2) Depth to Water (ft):98.83	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 121.17	6) Total Well Volume (gal) (3x5):79.099	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
12:59	98.91		240	4.92	340	15.78	.544	6.85	2.5
1:04	98.91		240	5.01	340	15.44	0.58	6.72	1.1
1:09	98.91		240	5.01	337	15.3	0.589	7.92	1.4
1:14	98.76		240	5.02	339	15.19	0.593	7.09	1.4
1:19	98.78		240	4.99	337	15.2	0.592	7.19	1.3
1:24	98.93		240	4.99	338	15.16	0.592	7.01	1

Total Quantity of Water Removed (gal):	8160 mL	Sampling Time:	1:25
Samplers:		Split Sample With:	
Sampling Date:	7/25/2011	Sample Type:	voc's & metals

COMMENTS AND OBSERVATIONS:	132 psi, 9.0 intake, 6.0 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-13D	Weather: OVERCAST, 70 DEGREES F. BREEZY
Sounding Method: WATER TAPE	Gauge Date: 7-25-11	Measurement Ref: TOC
Stick Up/Down (ft):	Gauge Time:10:52	Well Diameter (in):4

Purge Date:	7/25/2011	Purge Time:	10:59
Purge Method:	BLADDER (DEDICATED)	Field Technician:	

1) Well Depth (ft): 350	4) Well Diameter (in): 4	7) Five Well Volumes (gal):820
2) Depth to Water (ft):99.23	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 250.77	6) Total Well Volume (gal) (3x5): 163.70	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
11:05	99.28		220	4.73	346	16.39	.227	7.42	.2
11:10	99.28		220	4.64	328	15.76	0.225	6.83	0.8
11:15	99.31		220	4.42	349	15.63	0.234	6.37	0.3
11:20	99.34		220	4.50	358	15.65	0.234	6.23	0.2
11:25	99.28		220	4.56	372	17.08	0.229	5.6	0.1
11:35	99.35		220	4.56	385	16.97	0.237	6.15	0.1
11:40	99.33		220	4.57	377	16.56	0.233	5.85	0.1
11:40	99.33		220	4.60	380	17	0.231	5.91	0.1

Total Quantity of Water Removed (gal):	10,340 mL	Sampling Time:	11:46
Samplers:		Split Sample With:	voc's & metals
Sampling Date:	7/25/2011	Sample Type:	

COMMENTS AND OBSERVATIONS:	175 psi, 5.0 intake, 10.0 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:EW-14 D	Weather:SUNNY 90 DEGREES F.
Sounding Method: WATER TAPE	Gauge Date:7-26-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:8:09	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	8:21
Purge Method:	BLADDER (DEDICATED)	Field Technician:	

1) Well Depth (ft): 195	4) Well Diameter (in): 4	7) Five Well Volumes (gal):500
2) Depth to Water (ft):41.44	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 153.66	6) Total Well Volume (gal) (3x5):100.31	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
8:26	41:48		200	4.83	287	16.03	.160	6.78	.6
8:31	41:48		200	4.63	302	15	0.153	6.75	1.4
8:36	41:48		200	4.7	313	15.22	0.14	3.73	1.3
8:41	41:48		200	4.69	320	15.5	0.133	7.69	1
8:46	41:48		200	4.65	321	15.62	0.132	7.47	0.7

Total Quantity of Water Removed (gal):	5200 mL	Sampling Time:	8:47
Samplers:		Split Sample With:	
Sampling Date:	7/26/2011	Sample Type:	voc & metals

COMMENTS AND OBSERVATIONS:	100 psi, 8.0 intake, 7.0 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:LF-02	Weather:COOL TEMP 71 DEGREES F.
Sounding Method: WATER TAPE	Gauge Date:7-27-11	Measurement Ref: TOC
Stick Up/Down (ft):	Gauge Time: 46.0 - 14.0	Well Diameter (in):4

Purge Date:	7/26/2011	Purge Time:	8:30
Purge Method:	SLOW FLOW	Field Technician:	

1) Well Depth (ft): 102	4) Well Diameter (in): 4	7) Five Well Volumes (gal):103
2) Depth to Water (ft):52.15	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 49.85	6) Total Well Volume (gal) (3x5):32.54	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
7:25	52.15		210	6.40	144	19.6	.464	8.69	17.0
7:30	52.15		210	5.69	42	19.3	0.473	0.3	43.0
7:35	52.15		210	5.69	53	19.3	0.483	3.66	48.4
7:40	52.15		210	5.71	60	19.4	0.483	3.22	50.0
7:45	52.15		210	5.73	69	19.4	0.485	2.89	41.0
7:50	52.15		210	5.74	79	19.3	0.487	3.98	132.0
7:55	52.15		210	5.77	83	19.4	0.483	2.83	112.0
8:00	52.15		210	5.78	88	19.4	0.488	2.73	134.0
8:05	52.15		210	5.79	91	19.4	0.489	2.91	87.0
			CELL CLEANED						
8:15									6.4
8:20									6.4
8:23									15.3

Total Quantity of Water Removed (gal):		Sampling Time:	8:30
Samplers:		Split Sample With:	
Sampling Date:	7/27/2011	Sample Type:	GRAP

COMMENTS AND OBSERVATIONS:	TURBIDITY IS NOW RECORDING BOGUS READINGS -METAL & VOAS

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:MW-6D	Weather:MOST SUNNY 70 DEGREES F.
Sounding Method:	Gauge Date:7-27-11	Measurement Ref: TOC
Stick Up/Down (ft):	Gauge Time: 8:13	Well Diameter (in):4

Purge Date:	7/27/2011	Purge Time:	9:59
Purge Method:	BLADDER S/S POC-2	Field Technician:	

1) Well Depth (ft): 190	4) Well Diameter (in): 4	7) Five Well Volumes (gal):309
2) Depth to Water (ft):95.40	5) Well Volume / Foot (gal) (d^2x.0408):0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 94.60	6) Total Well Volume (gal) (3x5):61.75	Pump Type: S/S BLDDER/POC - 2

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
10:06	95.61		220	5.74	73	16.35	.126	11.62	6
10:11	95.62		220	5.67	56	16.42	0.199	6	7.7
10:16	95.62		220	5.75	34	16.65	0.217	3.66	7.3
10:21	95.62		220	5.81	25	16.69	0.223	2.86	6.6
10:26	95.62		220	5.8	22	16.82	0.226	1.88	6.4
10:31	95.62		220	5.83	20	16.78	0.227	1.93	6.3
				5.82	15	16.77	0.229	1.77	5.9

Total Quantity of Water Removed (gal):	7260 mL	Sampling Time:	10:32
Samplers:		Split Sample With:	
Sampling Date:	7/27/2011	Sample Type:	Vocs & Metals and TOB

COMMENTS AND OBSERVATIONS:	100 psi, 6.0 intake, 9.0 discharge- problems getting pump to work. Tried 2nd pump, still not working. Airline leaking at fitting. Replaced. Still not working. Well water draining back to well during recharge cycle. Possible leak in tubing. Had to increase psi from last event to get to pump water. Water also in airline.

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Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:MW-8C	Weather:PART SUNNY 80 DEGREES F.
Sounding Method: WATER TAPE	Gauge Date:7-27-11	Measurement Ref: TOC
Stick Up/Down (ft):	Gauge Time: 2:12	Well Diameter (in):4

Purge Date:	7/27/2011	Purge Time:	2:22
Purge Method:	BLADDER (PVC-2)	Field Technician:	

1) Well Depth (ft): 250	4) Well Diameter (in): 4"	7) Five Well Volumes (gal):587
2) Depth to Water (ft):70.19	5) Well Volume / Foot (gal) (d^2x.0408):.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 179.81	6) Total Well Volume (gal) (3x5):117.38	Pump Type: BLADDER (PVC-2)

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
2:27	70.36		240	5.65	11	18.61	.287	4.54	2.9
2:32	70.37		240	5.68	12	16.01	0.169	3.14	1.3
2:37	70.38		240	5.69	14	15.38	0.153	2.23	0.4
2:42	70.38		240	5.69	20	15.14	0.151	2.06	0.3
2:47	70.38		240	5.60	29	15.01	0.148	1.53	0.6
2:52	70.38		240	5.56	38	14.76	0.147	1.51	0.5
2:57	70.38		240	5.57	39	14.62	0.146	1.54	0.6
3:02	70.38		240	5.55	46	14.59	0.145	1.45	0.5

Total Quantity of Water Removed (gal):	9840 mL	Sampling Time:	3:03
Samplers:		Split Sample With:	
Sampling Date:	7/27/2011	Sample Type:	voc's & metals & TOB

COMMENTS AND OBSERVATIONS:	80 psi, 8.5 intake, 6.5 discharge

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:MW-10 B	Weather:PART SUNNY 70 DEGREES F.
Sounding Method: WATER TAPE	Gauge Date:7-28-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:7:18	Well Diameter (in):

Purge Date:	7/28/2011	Purge Time:	7:27
Purge Method:	BLADDER (POC-2)	Field Technician:	

1) Well Depth (ft): 178	4) Well Diameter (in): 4"	7) Five Well Volumes (gal):265
2) Depth to Water (ft):96.73	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 81.27	6) Total Well Volume (gal) (3x5):53.05	Pump Type: BLADDER (POC-2)

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
7:31	96.87		280	4.55	269	16.47	.528	19.03	0
7:36	97.28		160	4.8	256	14.88	0.489	10.72	0
7:41	97.47		160	4.99	255	15.11	0.484	9	0
7:46	97.58		160	4.95	254	15.18	0.483	9.66	0
7:51	97.67		160	4.98	251	15.2	0.481	9.7	0

Total Quantity of Water Removed (gal):	5080 mL	Sampling Time:	7:52
Samplers:		Split Sample With:	TOB
Sampling Date:	7/27/2011	Sample Type:	voc's & metals & TOB

COMMENTS AND OBSERVATIONS:	9.5 psi, 9.5 intake, 5.5 discharge- DO seems high.

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:MW-10C	Weather: M. SUNNY 75 DEGREES F.
Sounding Method: WLI - SOLINST 101	Gauge Date:7-28-11	Measurement Ref: TOC
Stick Up/Down (ft):	Gauge Time: 10:18	Well Diameter (in):4

Purge Date:	7/28/2011	Purge Time:	10:29
Purge Method:	BLADDER (PUC-2)	Field Technician:	

1) Well Depth (ft): 278	4) Well Diameter (in): 4	7) Five Well Volumes (gal):594
2) Depth to Water (ft):96.01	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 181.99	6) Total Well Volume (gal) (3x5):	Pump Type: BLADDER (PUC-2)

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
10:36	96.01		240	4.62	290	17.07	.512	12.49	0
10:41	96.01		240	4.74	298	16.82	0.517	12.31	0
10:46	96.01		240	4.61	298	16.5	0.521	11.97	0
10:51	96.01		240	4.69	303	16.6	0.519	12.14	0
10:56	96.01		240	4.63	304	16.39	0.52	12.01	0

Total Quantity of Water Removed (gal):	6720mL	Sampling Time:	10:57
Samplers:		Split Sample With:	
Sampling Date:	7/28/2011	Sample Type:	VOC'S & METALS & TOB

COMMENTS AND OBSERVATIONS:	130 PSI, P.5 INTAKE, 5.5 DISCHARGE- DO SEEMS HIGH

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:MW-10D	Weather: OVERCAST 70 DEGREES F.
Sounding Method: WATER LEVEL INDICATOR	Gauge Date:7-28-11	Measurement Ref: TOC
Stick Up/Down (ft):	Gauge Time:8:11	Well Diameter (in):4

Purge Date:	7/28/2011	Purge Time:	8:51
Purge Method:	BLADDER POC-2	Field Technician:	

1) Well Depth (ft): 351	4) Well Diameter (in): 4	7) Five Well Volumes (gal):828
2) Depth to Water (ft):97.31	5) Well Volume / Foot (gal) (d^2x.0408): .6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 253.69	6) Total Well Volume (gal) (3x5):165.61	Pump Type: BLADDER POC-2

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
9:00	97.40		240	5.14	186	15.52	.263	7.46	1
9:05	97.41		240	5	222	14.9	0.259	10.5	0.5
9:10	97.41		240	4.81	235	14.87	0.267	10.68	0
9:15	97.41		240	4.7	252	14.79	0.273	10.58	0
9:20	97.42		240	4.57	264	14.66	0.276	10.6	0
9:25	97.42		240	4.5	275	14.9	0.678	9.09	0
9:00	97.42		240	4.51	279	15.29	0.677	9.05	0
9:35	97.42		240	4.46	283	15.39	0.676	8.99	0

Compared DO readings with my meter to James DO % =8.50

Total Quantity of Water Removed (gal):	4760 mL	Sampling Time:	9:40
Samplers:		Split Sample With:	
Sampling Date:	7/28/2011	Sample Type:	voc's & metals TOB

COMMENTS AND OBSERVATIONS:	145 psi, 8.5 intake, 6.5 discharge - s/s bladder defective used PUC-2 after s/s not working, PUC working properly, DO seems high

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:SW-1	Weather:
Sounding Method: Water Tape	Gauge Date:7-26-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):4

Purge Date:	7/25/2011	Purge Time:	11:45
Purge Method:	slow flow	Field Technician:	

1) Well Depth (ft): 70.99	4) Well Diameter (in): 4	7) Five Well Volumes (gal):19.6
2) Depth to Water (ft):65	5) Well Volume / Foot (gal) (d^2x.0408):	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 5.99	6) Total Well Volume (gal) (3x5):3.91	Pump Type: bladder

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivit:y (uS/cm)	DO (ug/L)	Turbidity (ntu)
11:15	65.00	.50	190	4.17	284	15.2	27	8.43	6.0
11:20	65.00	.50	190	4.17	284	15.1	27.1	8.43	3.9
11:25	65.00	.50	190	4.15	288	15.0	26.8	8.43	3.8
11:30	65.00	.50	190	4.15	291	15.0	22.8	8.43	4.2
11:35	65.00	.50	190	4.13	293	15.1	26.7	8.43	4.2
11:40	65.00	.50	190	4.12	295	15.0	26.6	8.43	5.5

Total Quantity of Water Removed (gal):	3 gal.	Sampling Time:	11:45
Samplers:		Split Sample With:	
Sampling Date:	7/25/2011	Sample Type:	

COMMENTS AND OBSERVATIONS:	metals & voc's

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER WELL SAMPLING FORM	

Project: Claremont Polychemical	WAS #: D006130-19	Field Personnel: Pete Takach, James Jackson, Keith Gandarillas
Location: Old Bethpage, NY	Well ID.:WT-01	Weather: A breeze, 75 degrees F
Sounding Method:WATER TAPE	Gauge Date:7-28-11	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:8:25	Well Diameter (in):4

Purge Date:	7/28/2011	Purge Time:	
Purge Method:	SLOW FLOW	Field Technician:	

1) Well Depth (ft): 107.2	4) Well Diameter (in): 4	7) Five Well Volumes (gal):33
2) Depth to Water (ft):97.00	5) Well Volume / Foot (gal) (d^2x.0408): 0.6528	Depth/Height of Top of PVC:
3) Height of H_2O Column (1-2) (ft): 10.2	6) Total Well Volume (gal) (3x5):6.66	Pump Type: BLADDER

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (mL/m)	pH (pH units)	ORP (mV)	Temperature (oC)	conductivity: (uS/cm)	DO (ug/L)	Turbidity (ntu)
7:55	97.00	0.50	160	5.02	289	17.1	66.7	10.36	7.6
8:00	97.00	0.50	160	4.62	314	16.8	60.1	9.59	15.3
8:05	97.00	0.50	160	4.44	339	16.6	58.7	9.37	19.7
8:10	97.00	0.50	160	4.38	349	16.7	57.9	9.35	19.7
8:15	97.00	0.50	160	4.34	353	16.6	57.7	9.22	25.9
8:20	97.00	0.50	160	4.34	358	16.7	57.7	9.10	28.9

Total Quantity of Water Removed (gal):	3	Sampling Time:	8:25/8:30
Samplers:		Split Sample With:	
Sampling Date:	7/28/2011	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:	QC done at WT-01\ 4 Metals\ 6 VOAS