

31 January 2007

Mr. Roger Papler, P.G.
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Subject: Results of Fourth Quarter 2006 Groundwater Monitoring and Response to RWQCB Comments to the Monitoring Well Installation Report Hopyard Cleaners, 2771 Hopyard Road, Pleasanton, California Self-Monitoring Program No. R5-2006-0059

Dear Mr. Papler:

This report transmits results of the Fourth Quarter 2006 Groundwater Monitoring at the Hopyard Cleaners site (the "Site") in Pleasanton, California and also addresses the RWQCB comments on the Monitoring Well Installation Report submitted on 31 October 2006. A site location map is provided in Figure 1. The work described in this report was performed in compliance with the California Regional Water Quality Control Board (RWQCB) Monitoring and Reporting Program (MRP) No. R5-2006-0059.

The monitoring well network at the Site consists of 3 wells installed to 30 feet below ground surface (bgs). Well completion details are summarized in Table 1. Well locations relative to the site are shown in Figure 2. A soil gas vapor intrusion evaluation was also performed using the Johnson and Ettinger (J&E) subsurface vapor intrusion model [Johnson and Ettinger, 1991 and USEPA, 2000]. Results from this evaluation are presented in this report.

WORK PERFORMED THIS QUARTER

The three groundwater monitoring wells were installed on 26, 27 and 29 September 2006 and developed on 3 October 2006. A report documenting well installation and development activities was submitted to the RWQCB on 31 October 2006. This is the first quarterly monitoring report for these wells.

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The Site monitoring wells were surveyed on 25 October 2006 by Kier & Wright, Civil Engineers and Surveyors, Inc. (Kier & Wright) of Pleasanton, California. The horizontal and vertical position of the top of casing of each monitoring well was surveyed using NAD83 as the horizontal datum and NAVD88 for the vertical datum. Horizontal state plane coordinates and top of casing elevations for the wells are presented in Table 1.

The quarterly groundwater monitoring event was performed on 20 November 2006. During this event, monitoring well MW-3 was developed further since during the first round of development the well dewatered and additional development was believed to be beneficial. The well was bailed, surged and then 20 casing volumes of water were purged. The development log for MW-3 is presented in Attachment 1.

QUARTERLY GROUNDWATER MONITORING

Quarterly groundwater monitoring was performed at the Site on 20 November 2006. Details are described below.

Sampling and Analytical Procedures

The groundwater sampling fieldwork was performed by Environmental Sampling Services, Inc. (ESS), of Martinez, California. ESS's report, including field procedures and sampling logs, is provided in Attachment 1. Samples were sent to Severn Trent Laboratories, Inc. (STL) of Pleasanton, California for analysis. Groundwater samples from the Site monitoring wells were analyzed for volatile organic compounds (VOCs) by EPA method 8260B.

Groundwater Elevations and Flow Conditions

Table 2 summarizes groundwater elevations measured during this sampling event. Groundwater beneath the Site was encountered between approximately 14 and 16 ft bgs. This depth corresponds to an elevation approximately between 310 and 312 ft above Mean Sea Level (MSL).

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Water level measurements taken during the November 2006 event were used to construct groundwater elevation contours, presented as Figure 2. The water levels measured in the Site monitoring wells in November 2006 indicate a general flow to the northwest (Figure 2) with an average gradient of 0.004 ft/ft (22 ft/mile).

Data QA/QC

GeoSyntec performed a quality assurance/quality control (QA/QC) review of the analytical data. Data were reviewed for completeness, accuracy, precision, sample contamination, conformance with holding times, and detection limits within acceptable ranges. The results of the QA/QC review indicate that groundwater data are of acceptable quality.

Analytical results

Laboratory analytical reports are provided in Attachment 2. Table 3 summarizes analytical results for groundwater samples collected during the November 2006 event. Analytical results for the current sampling event are also shown in Figure 2. Isoconcentration contour maps for tetrachloroethene (PCE) and trichloroethene (TCE) are shown in Figures 3 and 4.

Analytical results from samples taken from the three monitoring wells showed the highest VOC concentrations at MW-2. The PCE and TCE concentrations at well MW-2 were 5,700 and 370 $\mu\text{g/L}$, respectively. These concentrations are higher than previous results from hydropunch groundwater samples collected in the vicinity of MW-2. Based on this result, additional groundwater samples to characterize the lateral extent of contamination are proposed in the Future Work section of this report. The samples collected from MW-1 and MW-3 had concentrations consistent with previous results from hydropunch groundwater samples collected near those wells.

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RESULTS OF SOIL GAS VAPOR INTRUSION EVALUATION USING J&E MODEL

In accordance with the Order, vapor intrusion concerns were assessed by evaluating the potential for VOCs to volatilize from the subsurface. This pathway was evaluated using the Johnson and Ettinger (J&E) subsurface vapor intrusion model [Johnson and Ettinger, 1991 and USEPA, 2000] to estimate potential migration of subsurface vapors into indoor air. The J&E model spreadsheets were only used to calculate indoor air concentrations and not to calculate risk.

For the soil gas-to-indoor air pathway, the maximum soil gas concentration of PCE from the September 2006 data ($5,200 \mu\text{g}/\text{m}^3$) and a sampling depth of 5 feet were used in the J&E model. For the groundwater-to-indoor air pathway, the maximum groundwater concentration from the November 2006 ($5,700 \mu\text{g}/\text{L}$), along with the average depth to groundwater of 15 feet bgs, were used in the J&E model. Based on the site soil characterization, model defaults for clay soils were used in the model (bulk density, total soil porosity, and water-filled porosity).

The J&E vapor intrusion model requires the characterization of several building-specific parameters including building size (area and floor height), ventilation rate, and volumetric flow rate of soil gas into the building. The DTSC default building dimensions, air exchange rate, and volumetric flow rate of soil gas into the building for the commercial scenario were used in the model.

The results of the J&E model (Table 4) show calculated indoor air concentrations for PCE greater than RWQCB Environmental Screening Level (ESL) for both the soil gas-to-indoor air and groundwater-to-indoor air pathways. The calculated indoor air concentrations for TCE were less than the RWQCB ESL. To confirm the preliminary results and distribution of soil gas, additional soil gas samples will be collected along the sidewalk in front of the buildings and in the vicinity of MW-2. Sample locations are shown on Figure 6 and summarized in Table 5. At each location, soil gas samples will be collected at a depth of approximately 5 ft. Soil gas samples will be retrieved using

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direct-push drilling methods (e.g., Geoprobe® sampling system) and will be performed in accordance with the joint RWQCB/DTSC Guidance for Active Soil-Gas Investigations (RWQCB/DTSC, 2003).

Following collection, samples will be delivered to an on-site State-certified mobile laboratory for analysis of VOCs by EPA Method 8260B.

RESPONSE TO RWQCB COMMENTS ON MONITORING WELL INSTALLATION REPORT

This section is organized with the RWQCB comment in *italics* followed by Geosyntec's response to each comment:

Comment 1: Workplan should specify collection of soil-vapor samples adjacent to nearby buildings.

Response: We agree that the soil vapor intrusion pathway should be further investigated. However, using the results from the soil gas samples collected in September 2006 and reported in the Monitoring Well Installation Report [Geosyntec 2006] a preliminary evaluation using the J&E model was performed as described above. The results of the evaluation indicate that modeled indoor air concentrations are greater than RWQCB ESLs for PCE and below RWQCB ESLs for TCE. Therefore, additional soil gas samples will be collected at the locations shown in Figure 6 and summarized in Table 5 to confirm the preliminary J&E results.

Comment 2: J&E model should use highest soil gas result after additional samples are collected.

Response: A preliminary evaluation of soil gas vapor intrusion was performed using the J&E model. Based on these results, additional soil gas samples will be collected at the locations shown in Figure 6. If soil gas sample results are greater than the soil gas sample results collected in September 2006, then the modeled indoor air concentration

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for the soil gas-to-indoor air pathway will be recalculated using the highest soil gas concentration.

Comment 3: Deeper zone sampling closer to source using dual wall DPT to fully evaluate impact.

Response: We agree that the vertical extent of contamination should be characterized in order to implement remedial measures. To that end, we are using a phased approach to direct data gathering due to site logistical limitations. As discussed above, some additional horizontal delineation is required. Vertical extent samples were collected close to the source during the January 2006 MIP Investigation [Geosyntec 2006]. MIP-5 was sampled between 42-46 ft bgs and the result was substantially lower than the sample taken from 16-20 ft bgs (Figure 5) indicating that downward migration of the contaminants has been limited. Figure 5 shows results for the hydropunch groundwater samples collected during the MIP Investigation. We recommend delineating the horizontal extents of the plume before taking deeper samples to delineate the vertical extent. A schedule for collection of additional groundwater samples is presented in the Future Work section.

Comment 4: Evaluate the need for deeper zone wells based on deeper zone groundwater analytical.

Response: Based on analytical groundwater results from deeper intervals (40 – 60 ft bgs), at least one deeper groundwater monitoring well is necessary to monitor vertical migration of the plume. We recommend delineating the vertical and horizontal extents of the plume before installing deeper monitoring wells. Also, we recommend confirming the groundwater flow direction through at least two more quarterly groundwater level measurements. Fully understanding the fluctuations in groundwater flow direction are essential in determining an appropriate location for a deeper well.

Comment 5: Schedule of additional groundwater sampling should be specified.

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Response: The schedule for additional groundwater sampling is presented in the Future Work section of this report.

Comment 6: Delete draft artifacts from the Table of Contents (i.e. "Error! Bookmark not defined").

Response: These errors will be corrected in the report and uploaded to Geotracker.

Comment 6: Remove specific individual references to Water Board staff.

Response: From now on no references will be made to specific individuals of the Water Board staff.

FUTURE WORK

The next quarterly groundwater monitoring event will be performed in early February 2007. If the results from MW-2 are confirmed, Geosyntec proposes three additional groundwater sampling locations. Two of the locations will be to the southwest of the Site in order to characterize the horizontal extent of the plume in that direction and to confirm results from the January 2005 Investigation [Geosyntec 2005]. The third sample location will be upgradient of MW-2. These locations are in addition to the four groundwater sampling locations proposed in the Monitoring Well Installation Report. Two groundwater samples, one shallow and one intermediate, will be collected from each location. The additional proposed locations are shown in Figure 7 and summarized in Table 5. These groundwater samples, the groundwater samples proposed in the Monitoring Well Installation Report, and the proposed soil gas samples will be collected in March 2007 and the results will be discussed in the quarterly monitoring report due to the RWQCB on 31 April 2007.

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If you have any questions, please call either of the undersigned at (510) 836-3034.

Sincerely,



Sergio A. Santos, P.E.
Staff Engineer



D. Scott Felton, P.E.
Project Engineer

Copy w/attachments to:

Ms. Clare Leung, Hopyard Cleaners
Ms. Joy Ricigliano, Zurich Insurance
Mr. Wyman Hong, Zone 7 Water Agency

Attachments:

- | | |
|----------|---|
| Table 1 | Well Construction Summary |
| Table 2 | Groundwater Elevations |
| Table 3 | Groundwater Analytical Summary |
| Table 4 | Summary of Calculated Indoor Air Concentrations |
| Table 5 | Summary of Proposed Sample Locations |
| Figure 1 | Site Location |
| Figure 2 | November 2006 Groundwater Elevation Contours and Analytical Results |
| Figure 3 | November 2006 PCE Isoconcentration Contours |
| Figure 4 | November 2006 TCE Isoconcentration Contours |
| Figure 5 | Monitoring Well and MIP Analytical Results |

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Figure 6 Proposed Additional Soil Gas Sampling Locations

Figure 7 Proposed Additional Groundwater Sampling Locations

Attachment 1 Environmental Sampling Services Field Report

Attachment 2 Laboratory Analytical Report

TABLES

Table 1
Monitoring Well Construction Summary
Hopyard Cleaners
Pleasanton, California

Well I.D.	Date of Completion	Northing	Easting	TOC Elevation (MSL)	Total Depth (ft bgs)		Screen Interval Depth (ft bgs)		Well Casing Material	Well Diameter (inches)
					Borehole	Well	Top	Bottom		
MW-1	9/29/2006	2071427.29	6157712.24	325.77	30	30	20.00	30.00	SCH 40 PVC	2
MW-2	9/26/2006	2071357.03	6157791.18	325.69	30	30	20.00	30.00	SCH 40 PVC	2
MW-3	9/27/2006	2071461.21	6157787.94	326.27	30	30	20.00	30.00	SCH 40 PVC	2

Notes:

MSL = mean sea level

TOC = Top of Casing

System - NAD 83, Zone IV

Elevations are based on NAVD 88 Datum

Table 2
Groundwater Elevations
Hopyard Cleaners
Pleasanton, California

Well I.D.	TOC Elevation (ft MSL)	Sample Date	Depth to Groundwater Below TOC (ft)	Groundwater Elevation (ft MSL)
MW-1	325.77	11/20/2006	14.88	310.89
MW-2	325.69	11/20/2006	14.36	311.33
MW-3	326.27	11/20/2006	15.28	310.99

Notes:

ft MSL = feet above mean sea level

TOC = Top of Casing

Elevations are based on NAVD 88 Datum

Table 3
Groundwater Analytical Summary
Hopyard Cleaners
Pleasanton, California

Well I.D.	Sample Date	Volatile Organic Compounds - EPA Method 8260B (ug/L)		
		cis-1,2-DCE	PCE	TCE
MW-1	11/20/2006	370	3100	370
MW-2	11/20/2006	800 / 800	5700 / 5800	370 / 360
MW-3	11/20/2006	9.5	93	7.2

Notes:

Table shows only compounds detected above the laboratory reporting limit

cis-1,2-DCE - cis-1,2-dichloroethene

PCE - tetrachloroethene

TCE - trichloroethene

-- / --" - result on right represents duplicate sample

Table 4
Summary of Calculated Indoor Air Concentrations
Hopyard Cleaners
Pleasanton, California

Compound	RWQCB ESLs for Commercial Land Use (ug/m3)	Soil Gas-to-Indoor Air Modeled Concentrations (ug/m3)	Groundwater-to-Indoor Air Modeled Concentrations (ug/m3)
PCE	6.9E-01	1.1E+00	7.3E+00
TCE	2.0E+00	5.2E-03	3.5E-01

Notes:

Indoor air concentrations modeled using the Johnson & Ettinger model (Johnson and Ettinger, 1991 and USEPA, 2000)

ESL - Environmental Screening Level

PCE - tetrachloroethene

TCE - trichloroethene

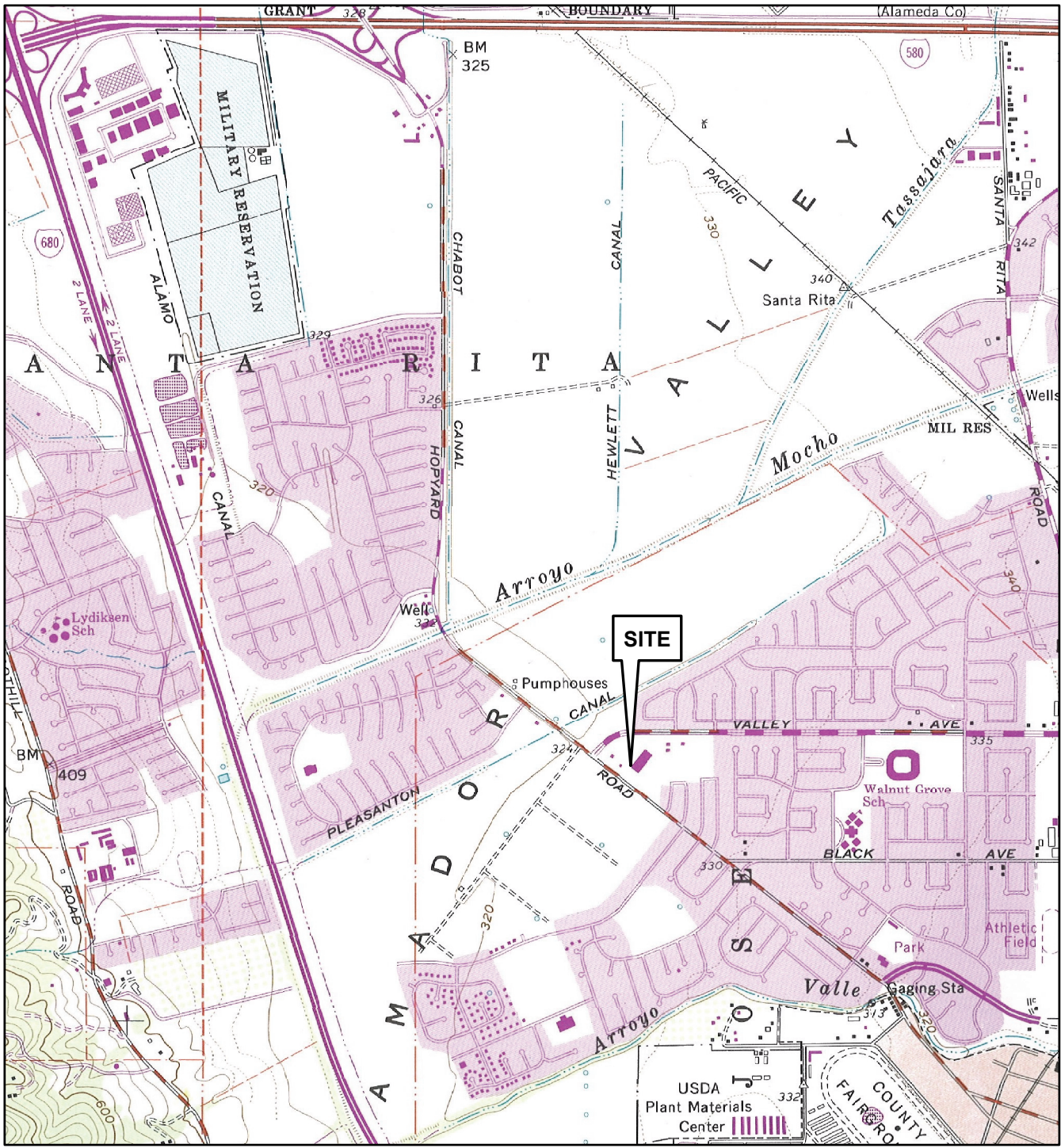
Table 5
Summary of Proposed Sampling Locations
Hopyard Cleaners
Pleasanton, California

Proposed Sample I.D.	Sample Type	Rationale
SG-1	Soil Gas	Soil gas sample located adjacent to commercial building to define soil gas distribution.
SG-2	Soil Gas	Soil gas sample located adjacent to commercial building to define soil gas distribution.
SG-3	Soil Gas	Soil gas sample located adjacent to commercial building to define soil gas distribution.
SG-4	Soil Gas	Soil gas sample located adjacent to commercial building to define soil gas distribution.
SG-5	Soil Gas	Soil gas sample located adjacent to monitoring well with highest PCE concentration to define soil gas distribution.
SG-6	Soil Gas	Soil gas sample located upgradient of monitoring well with highest PCE concentration to define soil gas distribution.

Table 5
Summary of Proposed Sampling Locations
Hopyard Cleaners
Pleasanton, California

Proposed Sample I.D.	Sample Type	Rationale
B-36	Groundwater	Groundwater sample located cross-gradient from the Site to define the horizontal extent and to confirm results from the January 2005 Investigation
B-37	Groundwater	Groundwater sample located cross-gradient from the Site to define the horizontal extent and to confirm results from the January 2005 Investigation
B-38	Groundwater	Groundwater sample located upgradient of monitoring well with highest PCE concentration to define upgradient extent.
Southeast of Valero Gas Station	Groundwater	Groundwater sample located downgradient of Site to define downgradient extent.
South Corner of Hopyard and Valley Roads	Groundwater	Groundwater sample located downgradient of Site to define downgradient extent.

FIGURES



Topo Source: U.S.G.S 7.5 Minute Series,
 Dublin, CA Quadrangle (1980)
 Contour Interval = 40 Feet

SITE LOCATION MAP
HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA



FIGURE NO.	1
PROJECT NO.	WR0574
DATE:	JANUARY 2007
FILE NO.	

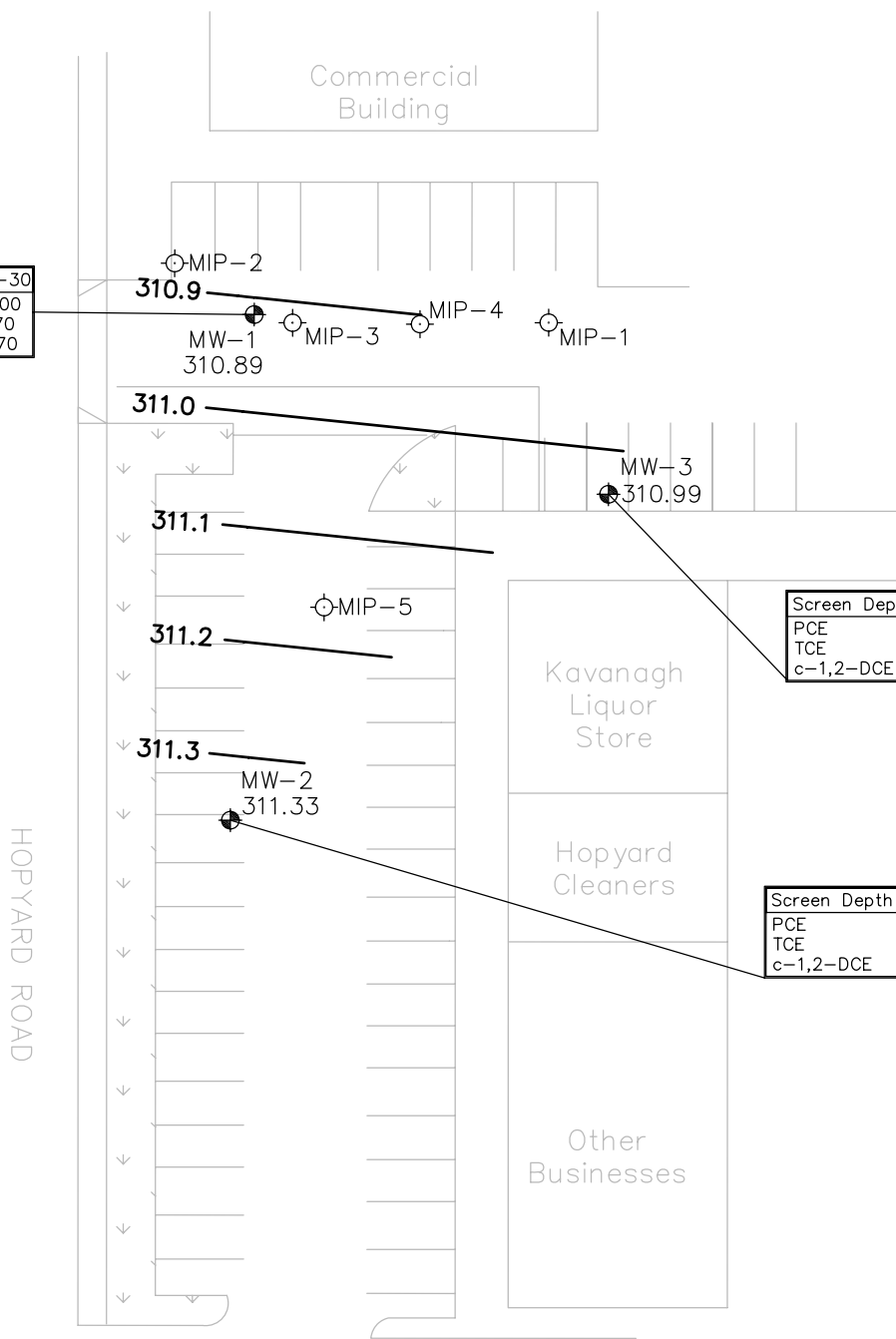
P:\PROJECTS\Hopyard Cleaners\Groundwater Sampling\G00\Figures\Figure 2 - GW Cont - Analytical.dwg 1-22-07

Screen Depth	20-30
PCE	3,100
TCE	370
c-1,2-DCE	370

Screen Depth	20-30
PCE	93
TCE	7.2
c-1,2-DCE	9.5

Screen Depth	20-30
PCE	5,700
TCE	370
c-1,2-DCE	800

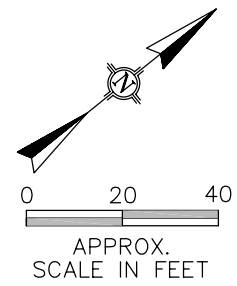
Sample Depth	19-24
PCE	750
TCE	190
c-1,2-DCE	270



LEGEND

- MW-2 311.33 Monitoring Well Location and Water Elevation (msl)
- 311.3 Groundwater Elevation Contour

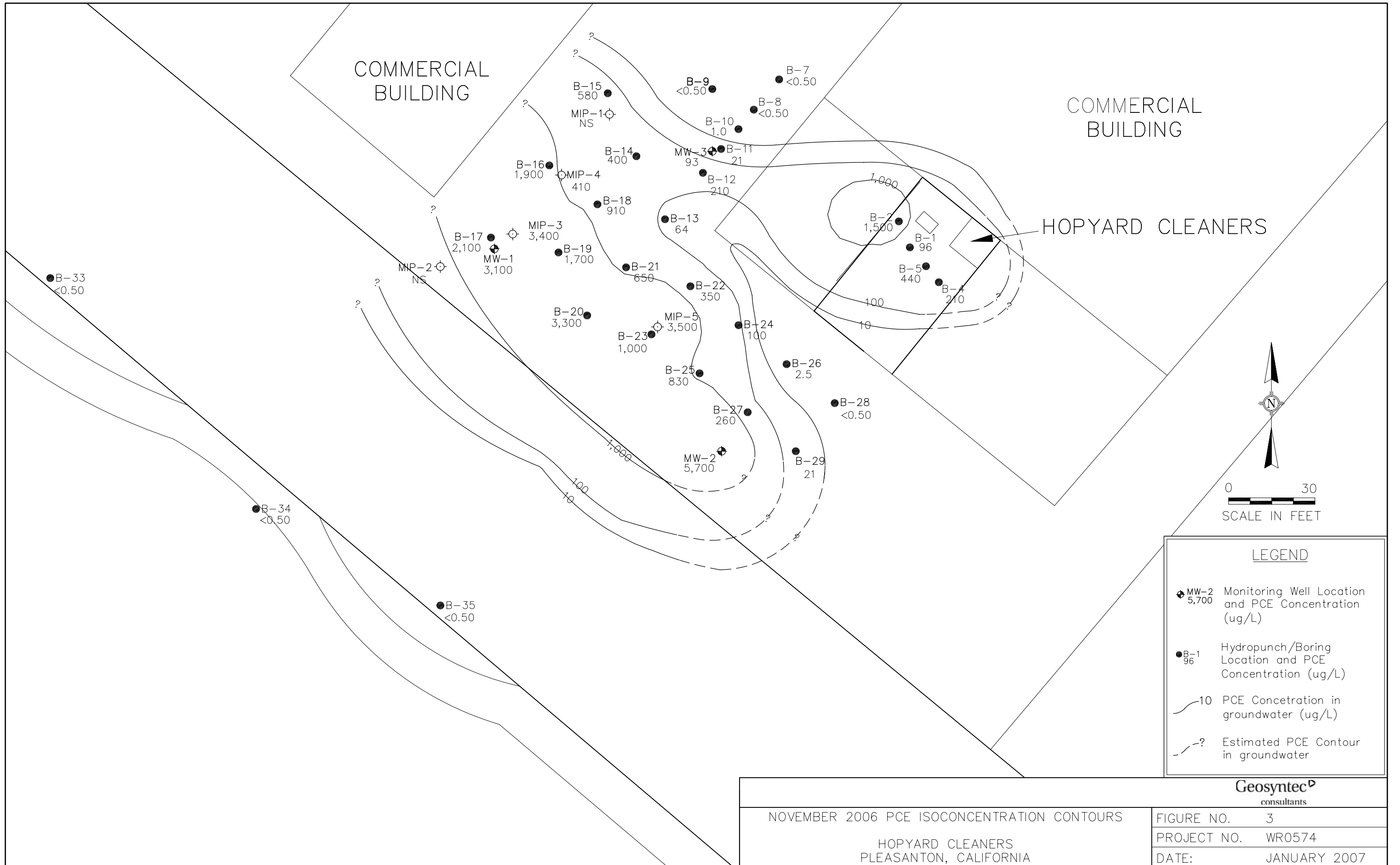
Analytical Results in parts per billion (ug/L).
 Depth in feet below ground surface (ft bgs).
 PCE - Tetrachloroethene
 TCE - Trichloroethene
 c-1,2-DCE - cis-1,2-Dichloroethene

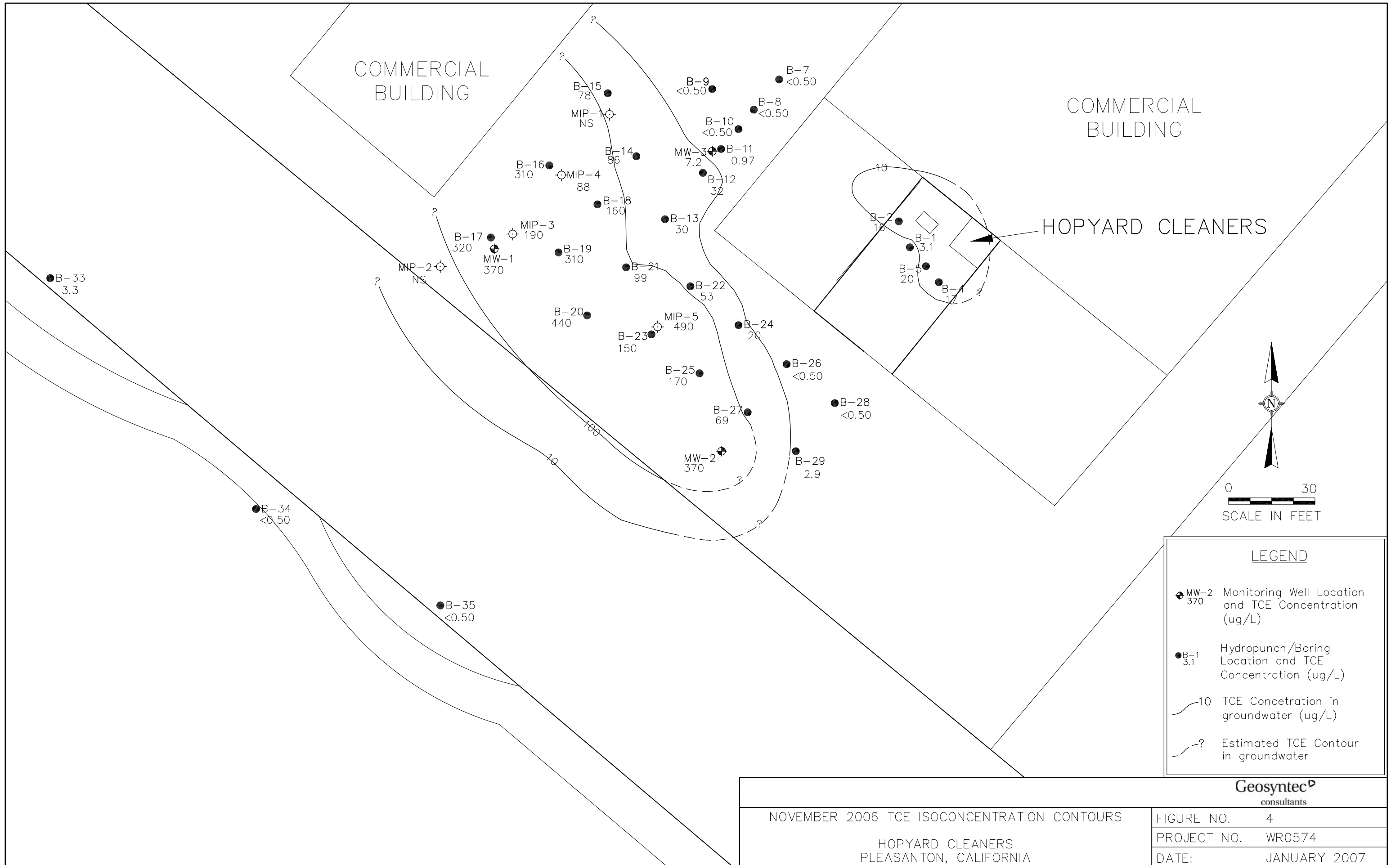


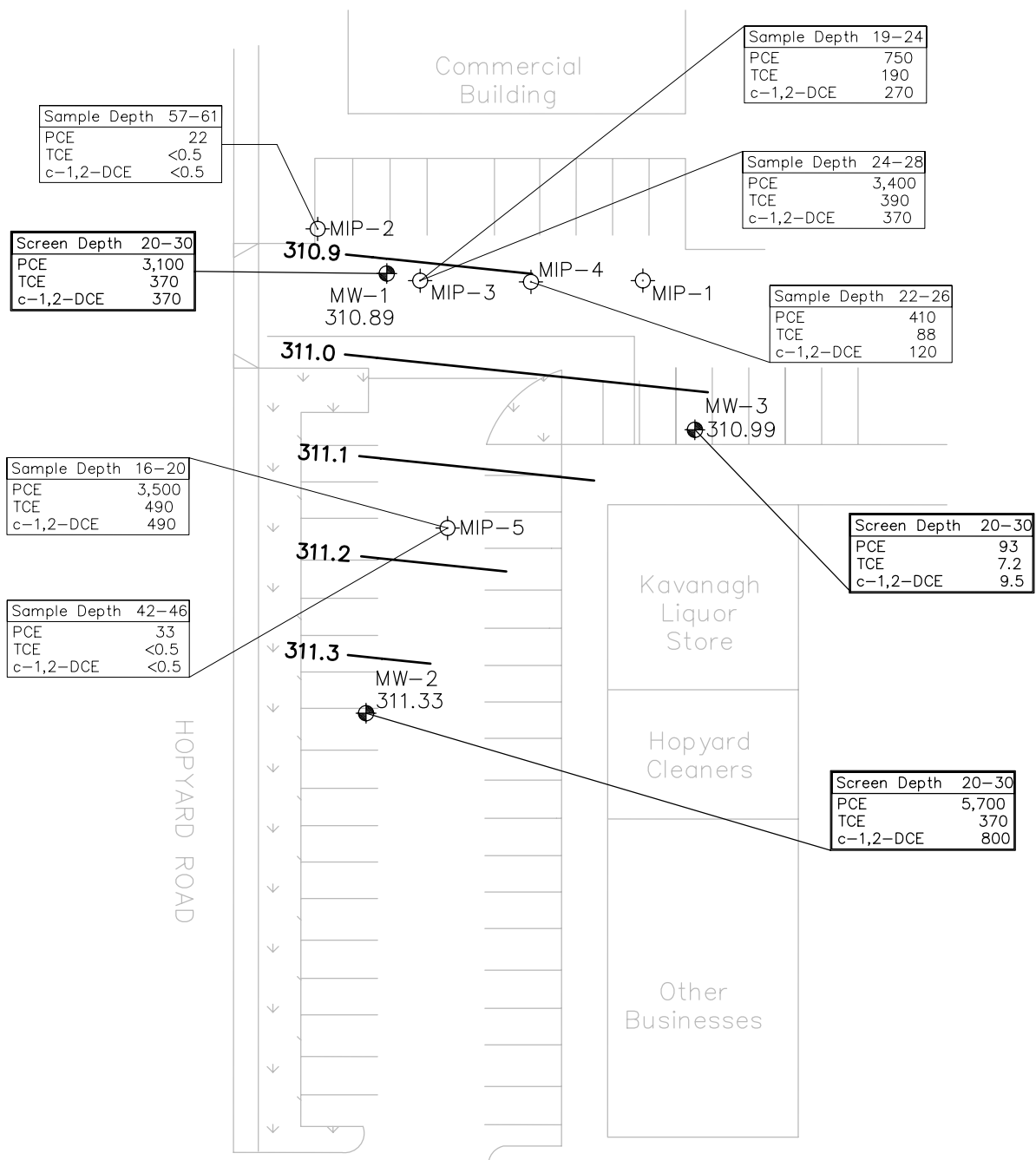
Geosyntec
 consultants

NOVEMBER 2006 GROUNDWATER ELEVATION CONTOURS
 AND ANALYTICAL RESULTS
 HOPYARD CLEANERS, PLEASANTON, CALIFORNIA

FIGURE NO.	2
PROJECT NO.	WR0574-03
DATE:	JANUARY 2007



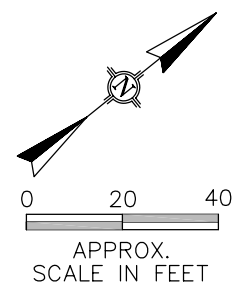




LEGEND

- MW-2 311.33 Monitoring Well Location and Water Elevation (msl)
- 311.3 Groundwater Elevation Contour
- MIP-3 Location
- Analytical Results in parts per billion (ug/L).
- Depth in feet below ground surface (ft bgs).
- PCE - Tetrachloroethene
- TCE - Trichloroethene
- c-1,2-DCE - cis-1,2-Dichloroethene

Sample Depth	PCE	TCE	c-1,2-DCE
19-24	750	190	270

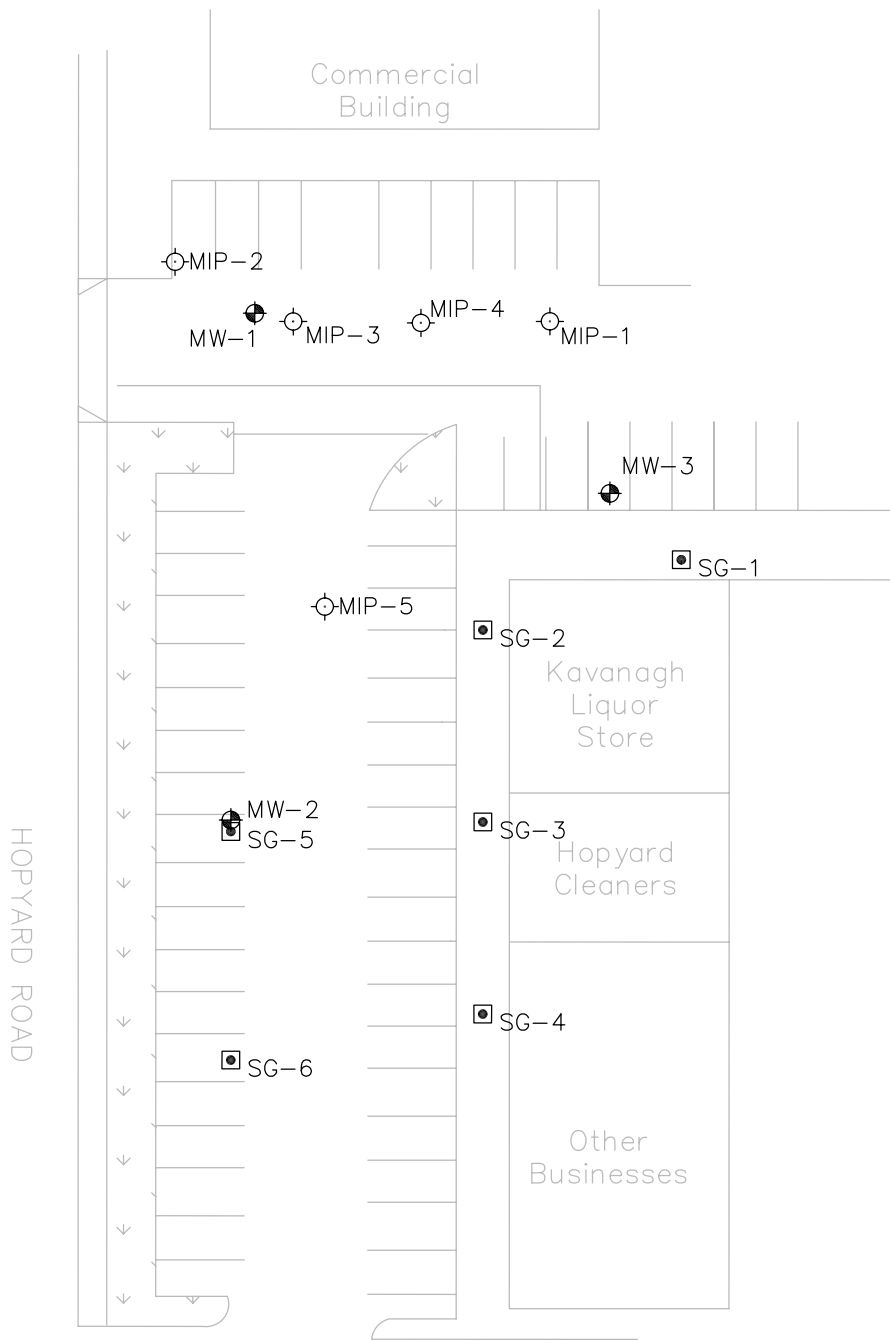


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consultants

MONITORING WELL AND JANUARY 2006 MIP ANALYTICAL RESULTS
HOPYARD CLEANERS, PLEASANTON, CALIFORNIA

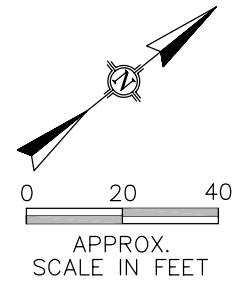
FIGURE NO.	5
PROJECT NO.	WR0574-03
DATE:	JANUARY 2007

P:\PRJ2003\BEA\Hopyard Cleaners\CrossSection\Sampling_VG06\Figures\Figure 6 - Proposed Soil Gas Locations.dwg 1-22-07



LEGEND

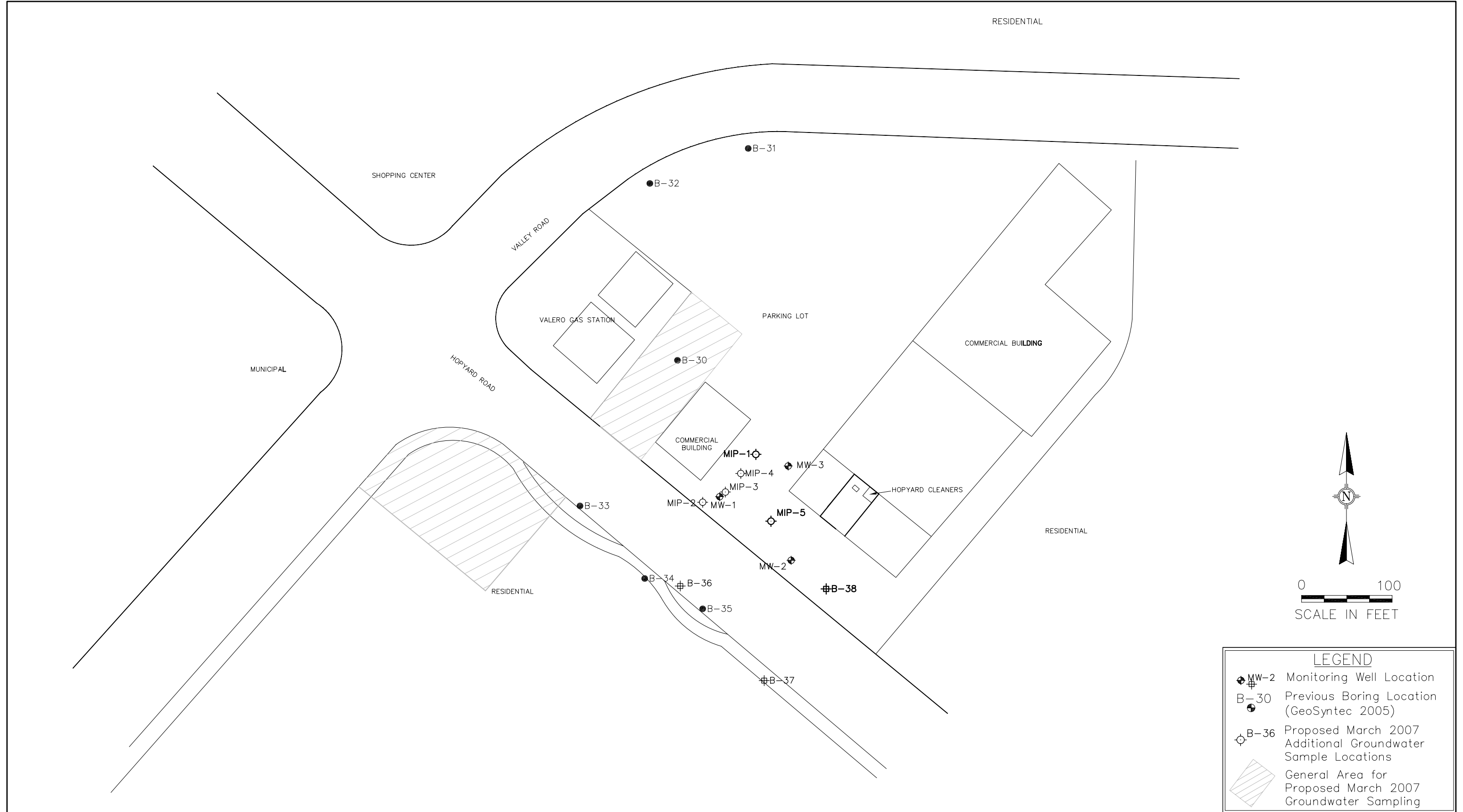
- SG-1 Proposed Soil Gas Sample Location
- MW-2 Monitoring Well Location
- MIP-3 January 2006 MIP Boring Location







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PROPOSED SOIL GAS SAMPLE LOCATIONS AND
EXISTING MONITORING WELL AND MIP LOCATIONS
HOPYARD CLEANERS, PLEASANTON, CALIFORNIA

FIGURE NO.	6
PROJECT NO.	WR0574-03
DATE:	JANUARY 2007



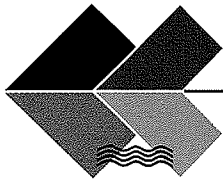
LEGEND

-  MW-2 Monitoring Well Location
-  B-30 Previous Boring Location (GeoSyntec 2005)
-  B-36 Proposed March 2007 Additional Groundwater Sample Locations
-  General Area for Proposed March 2007 Groundwater Sampling

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JANUARY 2005 BORING LOCATIONS AND PROPOSED MARCH 2007 GRAB GROUNDWATER SAMPLING LOCATIONS HOPYARD CLEANERS PLEASANTON, CALIFORNIA	FIGURE NO. 7
	PROJECT NO. WR0574
	DATE: JANUARY 2007

ATTACHMENT 1

ESS FIELD REPORT



**FIELD ACTIVITY REPORT
FOR**

**NOVEMBER 2006
WELL DEVELOPMENT & QUARTERLY
GROUNDWATER SAMPLING EVENT**

**HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA**

Task: Well Development and Quarterly Groundwater Sampling Event
ESS Personnel: Jacqueline Lee
Date of Activities: November 20, 2006

Decontamination Procedures

All downhole equipment was cleaned with Liqui-Nox® laboratory-grade soap, potable water, and rinsed with distilled water prior to use and between each monitoring well.

Field Equipment Calibration

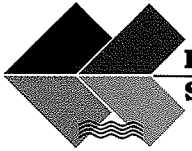
Both individual field meters and a YSI® multiparameter meter with an in-line flow through chamber were used to monitor water quality parameters during well development and purging. The instruments were calibrated with solution standards (see MW-3 Water Sample Log Sheet).

Groundwater Level Measurements

Following atmospheric equilibration of approximately twenty minutes, depth to groundwater and well depth were measured and recorded for each monitoring well. All readings were performed with a Solinst® electrical water level indicator and referenced to the surveyor's mark at the top of PVC well casing (Table 1). Three successive readings that agreed to within one-hundredth of a foot determined depth to groundwater and well depth.

Well Development

Mechanical surging for 10 minutes with a 2-inch PVC surge block and removal of 20 casing volumes with a centrifugal pump was used for well development. New pump



tubing was used. Standard field measurements (pH, Specific Conductance, Temperature and Turbidity) were recorded during the removal of the first ten casing volumes. ORP readings were requested during the second half of development; therefore, a YSI Multiparameter was calibrated and used. The amount of fine silt was reduced to a minimum following removal of twenty casing volumes. The criterion of 10 NTUs for turbidity was not achieved. Well depth was confirmed after development. After completion of well development, the well was sampled.

Water Quality Field Parameters

Water quality parameters were monitored and recorded throughout well purging. Field measurements included: pH, Specific Conductance (uS), Temperature (Celsius), ORP (mV), Turbidity (NTUs) and physical characteristics such as color (see Water Quality Sample Log Sheets).

Well Purging & Sampling Procedures

The minimum removal of three well casing volumes and stabilization of water quality parameters were required prior to sampling. If stabilization did not occur within three casing volumes, purging continued until stabilization was achieved or until five casing volumes were removed.

Stabilization was achieved after three successive readings were within the following criteria: ± 0.1 for pH, $\pm 10\%$ for Specific Conductivity, and ± 10 mV for ORP.

A centrifugal pump and new tubing were used for purging all wells. The pump intake was set just below the pumping water level. Following stabilization or the removal of required casing volumes, each well was allowed to recharge to 80% of the static water level prior to sampling.

New disposable polyethylene bailers with VOC bottom emptying devices were used for sample collection.

Chemical Analyses

All wells were sampled for Volatile Organic Compounds by EPA Method 8260B.

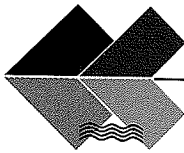
Sample Containers

Severn Trent Laboratories (STL-SF) of Pleasanton, California provided all sample containers.

Each VOCs sample set was contained in three, 40-ml VOA clear glass containers preserved with hydrochloric acid.

Sample Handling

All sample labels were completed with waterproof ink and affixed to sample containers.



**Environmental
Sampling Services**

During decanting, 40-ml VOA sample containers were slightly tilted to avoid aeration or degassing. Each sample container was inverted and tapped lightly to check for air bubbles. The absence of air bubbles indicated a successful seal.

All sample containers were wiped dry, sealed in Ziploc® bags, and placed in a chilled cooler for storage and shipment.

QA/QC

A Trip Blank set, supplied by STL-SF, was stored in the cooler throughout the sampling event and submitted for analysis.

One blind duplicate was collected from MW-2 and was labeled "MW-DUP @ 10:30".

No other QA/QC samples were requested.

Chain of Custody (COC) Form

All sample handling was conducted under standard chain of custody procedures. The COC included: sampler's name and signature, sample identification, sample date and time, analysis request section.

Shipment of Samples

Samples were relinquished to STL-SF November 20, 2006.

Storage of Investigative Derived Wastewater (IDW)

Approximately 90 gallons of purged groundwater and decontamination water generated from this sampling event were stored in two, labeled 55-gallon drums. The drums are stored along with six other drums along the southeast corner of the property.

Comments

During sample collection of MW-3, the sample did not contain any sedimentation, the other wells did.

One 9/16" bolt is missing from the well monument cover at MW-1.

Jacqueline Lee
Partner

Enclosure

Table 1: Summary of Well Development & Groundwater Sampling
Water Sample Log Sheets
Chain of Custody

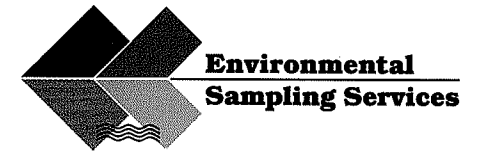


Table 1: Summary of November 2006 Well Development and Quarterly Groundwater Sampling Event

Project Name: Hopyard Cleaners

Project Location: 2771 Hopyard Road, Pleasanton, California

Well Development:

Well/Sample Identification	Date of Measurement	Time of Measurement	Depth to Groundwater (Ft., TOC)	Well Depth (Ft., TOC) Before Development	Well Depth (Ft., TOC) After Development	Gallons Removed	Equivalent Casing Volumes
MW-3	11/20/2006	10:30	15.28	30.29	30.29	51	20.90

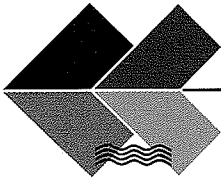
Well Sampling:

Well/Sample Identification	Date of Measurement	Time of Measurement	Depth to Groundwater (Ft., TOC)	Well Depth (Ft., TOC)	Sample Date	Sample Time	QA/QC Type	QA/QC Sample Identification
MW-1	11/20/2006	10:15	14.88	30.27	11/20/2006	15:15	None	NA
MW-2	11/20/2006	10:12	14.36	30.31	11/20/2006	14:40	Duplicate	MW-DUP
MW-3	11/20/2006	10:30	15.28	30.29	11/20/2006	13:10	None	NA

Legend:

TOC = Top of Well Casing

NA = Not Applicable



**Environmental
Sampling Services**

WATER QUALITY SAMPLE LOG SHEET WELL IDENTIFICATION MW-1 DATE 11/20/06

Project Name: Hopyard Cleaners - Pleasanton, CA Project Task: Quarterly Groundwater Monitoring
 Laboratory: STL San Francisco (Pleasanton) Weather Conditions: Overcast
 Well Description: 2" 3" 4" 5" 6" Other: _____ Well Type: PVC Stainless Steel Other: _____
 Is Well Secured? Yes No Bolt Size: 9/16" Type of Lock / Lock number: Master, Key Code=Unknown
 Observations / Comments: Missing bolt
 Purge Method: PE Disp. Bailer Peristaltic Pump Grundfos Pump Centrifugal Pump Other: _____
 Pump Lines: NA New Cleaned / Dedicated Bailer Line: NA New Cleaned / Dedicated
 Method of Cleaning Pump: NA Alconox Liqui-nox Tap Water DI Rinse Other: _____
 Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other: well water Rinse
 Sampling Method: Disp. Teflon Bailer Disp. PE Bailer Grundfos Redi-flow Pump Peristaltic Pump
 pH Meter Serial No.: 217254 / 330089 35131974 ^{Sonde} Cond. Meter Serial No.: 96H0203AB / AE 090 ⁰⁰⁰¹⁵²²
 Date/Time Calibrated: 11/20/06 4 7 10 @ 25°C Spec. Cond. Meter Calibration: Self Test Other: _____
 Method to Measure Water Level: Solinst / Slope Serial No.: 21750 P.I.D. Reading: NA ppm
 Beginning Water Level (BTOC): 14.88 @ 10:15 Ending Water Level (BTOC): 18.30↑
 TD = 30.27 - 14.88 (DTW) = 15.39 (ft. of water) x "K" = 2.50 (Gals./CV) x 3 (No. of CV) = 7.25 (Gals.)
 "K" = 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "K" = 2.61(8" well)

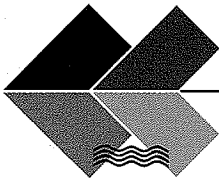
FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS (S)	Turbidity (NTU's)	Color	Comments
11/20/06	15:04	1.0	7.04	22.06	1539	108	lt tan	ORP = 120.2 mV
	15:07	3.0	7.05	22.52	1586	506	"	" = 116.3 mV
	15:08	5.0	7.00	22.11	1568	362	"	" = 105.1 mV
	15:09	8.0	7.00	21.90	1589	730	MED B/W	" = 99.3 mV
	15:10	10.0	7.01	21.91	1578	936	"	ORP = 95.1 mV
	15:12	12.0	7.01	23.40	1594	71000	"	ORP = 90.8 mV

Total Discharge: 13.0 Gallons Casing Volumes Removed: 5.20
 Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: _____
 Date/Time Sampled: 11/20/06 @ 15:15 Analysis EPA 8260 - 3 VOAs w/HCl_x

QA/QC: None @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank
 Comments: _____

Recorded By: Jacki Lee / Stephen Penman Signature: [Signature]



**Environmental
Sampling Services**

WATER QUALITY SAMPLE LOG SHEET WELL IDENTIFICATION MW-2 DATE 11/20/06

Project Name: Hopyard Cleaners - Pleasanton, CA Project Task: Quarterly Groundwater Monitoring

Laboratory: STL San Francisco (Pleasanton) Weather Conditions: Over cast

Well Description: 2 3" 4" 5" 6" Other: _____ Well Type: PVC Stainless Steel Other: _____

Is Well Secured? Yes / No Bolt Size: 9/16" Type of Lock / Lock number: Master, key code unknown

Observations / Comments: _____

Purge Method: PE Disp. Bailer Peristaltic Pump Grundfos Pump Centrifugal Pump Other: _____

Pump Lines: NA New / Cleaned / Dedicated Bailer Line: NA New Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other: Well Water Rinse

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer Grundfos Redi-flow Pump Peristaltic Pump

pH Meter Serial No.: 917254 / 330089 3193402 Spec. Cond. Meter Serial No.: 96H0203AB / AE 0001522

Date/Time Calibrated: 11/20/06 @ 10:23 @ 7 10 @ 25°C Spec. Cond. Meter Calibration: Self Test Other: _____

Method to Measure Water Level: Solinst / Slope Serial No.: 21758 P.I.D. Reading: NA ppm

Beginning Water Level (BTOC): 13.74 14.36 @ 10:12 Ending Water Level (BTOC): 15.23

TD = 30.31 - 15.36 (DTW) = 15.95 (ft. of water) x "K" = 2.56 (Gals./CV) x 3 (No. of CV) = 7.68 (Gals.)

"K" = 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "K" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS <u>(uS)</u>	Turbidity (NTU's)	Color	Comments
<u>11/20/2006</u>	<u>14:26</u>	<u>1.0</u>	<u>7.01</u>	<u>21.80</u>	<u>1374</u>	<u>>1000</u>	<u>DK BRN</u>	<u>ORP = 128.5</u>
	<u>14:27</u>	<u>3.0</u>	<u>7.09</u>	<u>21.43</u>	<u>1379</u>	<u>715</u>	<u>"</u>	<u>130.9</u>
	<u>14:28</u>	<u>5.0</u>	<u>7.04</u>	<u>21.24</u>	<u>1389</u>	<u>373</u>	<u>MED BRN</u>	<u>129.1</u>
	<u>14:30</u>	<u>7.0</u>	<u>7.06</u>	<u>21.31</u>	<u>1389</u>	<u>159</u>	<u>"</u>	<u>128.0</u>
	<u>14:32</u>	<u>10.0</u>	<u>7.07</u>	<u>22.22</u>	<u>1395</u>	<u>836</u>	<u>"</u>	<u>114.8</u>
	<u>14:34</u>	<u>12.0</u>	<u>7.08</u>	<u>22.02</u>	<u>1390</u>	<u>269</u>	<u>"</u>	<u>118.5</u>

Total Discharge: 13.5 Gallons Casing Volumes Removed: 5.21

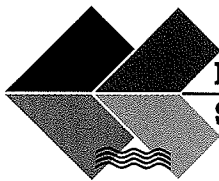
Method of disposal of discharged water: 55 Gallon Drums Poly Tank Treatment System Other: _____

Date/Time Sampled: 11/20/06 @ 14:40 Analysis: EPA 8260 - 3 VOAs w/HClx

QA/QC: MW-DUP None @ 12:30 as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: Per Geosyntec - next time, do this well first since bookstore does not open until 11:00am.

Recorded By: Jacki Lee / Stephen Penman Signature: [Signature]



**Environmental
Sampling Services**

WATER QUALITY SAMPLE LOG SHEET WELL IDENTIFICATION MW-3 DATE 11/20/2006

Project Name: Hopyard Cleaners - Pleasanton, CA Project Task: Well Development & Qtrly. GW Monitoring
 Laboratory: STL San Francisco (Pleasanton) Weather Conditions: Overcast, foggy am
 Well Description: 2" 3" 4" 5" 6" Other: Well Type: (PVC) Stainless Steel Other: _____
 Is Well Secured? Yes / No Bolt Size: 9/16" Type of Lock / Lock number: Master key code unknown
 Observations / Comments: swabbed well (screen interval) from 10:34-10:44
 Purge Method: PE Disp. Bailer Peristaltic Pump Grundfos Pump (Centrifugal Pump) Other: _____
 Pump Lines: NA (New) / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
 Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
 Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other: Well Water Rinse
 Sampling Method: Disp. Teflon Bailer (Disp. PE Bailer) GrundFos Redi-flow Pump Peristaltic Pump
 pH Meter Serial No.: 217254 / 330089 Spec. Cond. Meter Serial No.: 96H0203AB (AE)
 Date/Time Calibrated: 11/20/06 10:23 (4) 10 @ 25°C Spec. Cond. Meter Calibration: Self Test Other: _____
 Method to Measure Water Level: Solinst / Slope Serial No.: 21758 P.I.D. Reading: NA ppm
 Beginning Water Level (BTOC): 15.28 @ 10:30 Ending Water Level (BTOC): 18.30 @ 13:06
 TD = 30.29 - 15.28 (DTW) = 15.01 (ft. of water) x "K" = 2.44 (Gals./CV) x 10 (No. of CV) = 24.46 (Gals.)
 ("K" = 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "k" = 2.61(8" well)

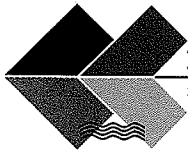
FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
11/20/06	11:10	5.0	6.95	21.1	1280.5	71000	olive BRN	fine silt (~50ml settled)
	11:15	10.0	7.05	21.8	1465.2	71000	"	8-20'; letting it recover
	11:34	15.0	6.93	20.7	1538.2	71000	"	
	11:39	20.0	7.05	22.2	1696	71000	"	letting it recover again
	11:54	25.0	6.91	20.8	1616	617	MED BRN	
11/20/06	12:20	30.0	7.02	20.58	1781	615	"	YS 1 HFR SHT ORP = 173.0 mV
	12:29	35.0	7.09	21.93	1806	71000	"	ORP = 123.3 mV minute amt. silt
	12:31	37.540-22.4	7.05	21.65	1803	792	"	ORP = 119.4 mV minute amt. silt
	12:33	40.0	7.02	22.42	1811	71000	"	ORP = 108.9 mV

Total Discharge: 51 Gallons Casing Volumes Removed: 20.90
 Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: _____
 Date/Time Sampled: 11/20/06 @ 13:10 Analysis: EPA 8260 - 6 VOAs w/HCl_x

QA/QC: None @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank
 Comments: Before Dev. TD=30.29 10 cv=24.46. GeoSyntec wants ORP readings.
YS 1 319340R/00 C1522 Calib @ 12:19: pH4=9.00; pH7=7.00 pH10=10.00, Sp. Cond.=1,000 ±
ORP = 237.5 mV 80% Recovery = 18.29' SEE PAGE 2 FOR MORE READINGS!

Recorded By: (Jacki Lee) Stephen Penman Signature _____



WATER QUALITY SAMPLE LOG SHEET WELL IDENTIFICATION: MW-3 Page 2

FIELD WATER QUALITY PARAMETERS CONTINUED

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS (<u>uS</u>)	Turbidity (NTUs)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTWC)	Color
"12/06	12:44	45	7.00	21.81	1805	400	102.2	NA	—	MED (BRN)
↓	12:53	50	7.01	23.53	1934	71000	94.3	"	—	"

Total Discharge: 51 Gallons Casing Volumes Removed: 20.90

Comments: Sample Turbidity ± slightly cloudy, no sedimentation.

Project: Hopyard Cleaners/GeoSynke

"Do not do any work on MW-2 (in front of bookstore) per Property owner (925)820-5670
Prop. Bill (Town + County) / Jerry (Lisa "Bookstore), called GeoSynke to resolve.
GeoSynke: In future, do direct

Sampled by: Jacqueline Lee / Stephen Penman Recorded by: [Signature]

Report To _____ **Analysis Request** _____

Attn: Sergio Santos
Company: GeoSyntec Consultants
Address: 475-14th St, Ste 400
Oakland, CA 94612
Phone: (510) 834-3034 Email: _____
Bill To: Same Sampled By: ESS
Jacki Lee
Attn: _____ Phone: _____

- TPH EPA - 8015/8021 8260B
- Gas w/ BTEX MTBE
- Purgeable Aromatics
- BTEX EPA - 8021 8260B
- TEPH EPA 8015M* Silica Gel
- Diesel Motor Oil Other
- Fuel Tests EPA 8260B: Gas BTEX
- Five Oxygenates DCA, EDB Ethanol
- Purgeable Halocarbons (HVOCS) EPA-8021 by 8260B
- Volatile Organics GC/MS (VOCs)
- EPA 8260B 624
- Semivolatiles GC/MS
- EPA 8270 625
- Oil and Grease Petroleum (EPA 1664) Total
- Pesticides EPA 8081 608
- PCBs EPA 8082 608
- PNAs by 8270 8310
- CAM17 Metals (EPA 60107470/7471)
- Metals: Lead LUFT RCRA Other: _____
- Low Level Metals by EPA 200.8/6020 (ICP-MS): _____
- WET (STLC) TCLP
- Hexavalent Chromium
- pH (24h hold time for H₂O)
- Spec Cond. Alkalinity TDS
- Anions: Cl SO₄ NO₃ F Br NO₂ PO₄

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B	Purgeable Aromatics	TEPH EPA 8015M* <input type="checkbox"/> Silica Gel	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX	Purgeable Halocarbons (HVOCS) EPA-8021 by 8260B	Volatile Organics GC/MS (VOCs)	Semivolatiles GC/MS	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608	PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 60107470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	Low Level Metals by EPA 200.8/6020 (ICP-MS): _____	<input type="checkbox"/> WET (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium	pH (24h hold time for H ₂ O)	Spec Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TDS <input type="checkbox"/>	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers
Trip Blank	11/20/06	9:00	W	HCl						X														2
MW-DUP	11/20/06	10:30	WG	HCl						X														3
MW-3	11/20/06	13:10	WG	HCl						X														3
MW-2	11/20/06	14:40	WG	HCl						X														3
MW-1	11/20/06	15:15	WG	HCl						X														3

Project Info
Project Name: Hayward Cleaners
Project#: WR0574
PO#: _____
Credit Card#: _____

Sample Receipt
of Containers: _____
Head Space: _____
Temp: 7°C
Conforms to record: _____

1) Relinquished by:
Jacqueline Lee 11/20/06
Signature _____ Time _____
Printed Name _____ Date _____
Company: Environmental Sampl. Svcs.

2) Relinquished by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

3) Relinquished by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

TAT: 5 Day 72h 48h 24h Other: _____
Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
Special Instructions / Comments: Global ID
Questions: call Jacki Lee @ 925-260-7999

1) Received by:
T. Buller 11/20/06
Signature _____ Time _____
Printed Name _____ Date _____
Company: STL-SF

2) Received by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

3) Received by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

ATTACHMENT 2

**LABORATORY ANALYTICAL
REPORT**



ANALYTICAL REPORT

Job Number: 720-6597-1

Job Description: Hopyard Cleaners

For:
GeoSyntec Consultants
475 14th Street, Suite 450
Oakland, CA 94612

Attention: Mr. Sergio Santos

A handwritten signature in black ink that reads "Melissa Brewer".

Melissa Brewer
Project Manager I
mbrewer@stl-inc.com
11/29/2006

Project Manager: Melissa Brewer

EXECUTIVE SUMMARY - Detections

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-6597-2	MW-DUP				
cis-1,2-Dichloroethene		800	40	ug/L	8260B
Tetrachloroethene		5800	40	ug/L	8260B
Trichloroethene		360	40	ug/L	8260B
720-6597-3	MW-3				
cis-1,2-Dichloroethene		9.5	1.0	ug/L	8260B
Tetrachloroethene		93	1.0	ug/L	8260B
Trichloroethene		7.2	1.0	ug/L	8260B
720-6597-4	MW-2				
cis-1,2-Dichloroethene		800	50	ug/L	8260B
Tetrachloroethene		5700	50	ug/L	8260B
Trichloroethene		370	50	ug/L	8260B
720-6597-5	MW-1				
cis-1,2-Dichloroethene		370	50	ug/L	8260B
Tetrachloroethene		3100	50	ug/L	8260B
Trichloroethene		370	50	ug/L	8260B

METHOD SUMMARY

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS (Low Level)	STL SF	SW846 8260B	
Purge-and-Trap	STL SF		SW846 5030B

LAB REFERENCES:

STL SF = STL San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

SAMPLE SUMMARY

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-6597-1TB	TRIP BLANK	Water	11/20/2006 0900	11/20/2006 1630
720-6597-2	MW-DUP	Water	11/20/2006 1030	11/20/2006 1630
720-6597-3	MW-3	Water	11/20/2006 1310	11/20/2006 1630
720-6597-4	MW-2	Water	11/20/2006 1440	11/20/2006 1630
720-6597-5	MW-1	Water	11/20/2006 1515	11/20/2006 1630

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-6597-1TB
 Client Matrix: Water

Date Sampled: 11/20/2006 0900
 Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-15777	Instrument ID: Varian 3900G
Preparation:	5030B		Lab File ID: c:\saturday\data\200611\11
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	11/27/2006 2152		Final Weight/Volume: 40 mL
Date Prepared:	11/27/2006 2152		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-6597-1TB
Client Matrix: Water

Date Sampled: 11/20/2006 0900
Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-15777	Instrument ID: Varian 3900G
Preparation:	5030B		Lab File ID: c:\saturnws\data\200611\11
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	11/27/2006 2152		Final Weight/Volume: 40 mL
Date Prepared:	11/27/2006 2152		

Analyte	Result (ug/L)	Qualifier	RL
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	107		79 - 118
1,2-Dichloroethane-d4 (Surr)	116		78 - 117
Toluene-d8 (Surr)	109		77 - 121

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: MW-DUP

Lab Sample ID: 720-6597-2
Client Matrix: Water

Date Sampled: 11/20/2006 1030
Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-15825	Instrument ID: Saturn 2K3
Preparation:	5030B		Lab File ID: d:\data\200611\112806\SA-
Dilution:	80		Initial Weight/Volume: 40 mL
Date Analyzed:	11/28/2006 1636		Final Weight/Volume: 40 mL
Date Prepared:	11/28/2006 1636		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		400
Acetone	ND		4000
Benzene	ND		40
Dichlorobromomethane	ND		40
Bromobenzene	ND		80
Chlorobromomethane	ND		80
Bromoform	ND		80
Bromomethane	ND		80
Methyl Ethyl Ketone	ND		4000
n-Butylbenzene	ND		80
sec-Butylbenzene	ND		80
tert-Butylbenzene	ND		80
Carbon disulfide	ND		400
Carbon tetrachloride	ND		40
Chlorobenzene	ND		40
Chloroethane	ND		80
Chloroform	ND		80
Chloromethane	ND		80
2-Chlorotoluene	ND		40
4-Chlorotoluene	ND		40
Chlorodibromomethane	ND		40
1,2-Dichlorobenzene	ND		40
1,3-Dichlorobenzene	ND		40
1,4-Dichlorobenzene	ND		40
1,3-Dichloropropane	ND		80
1,1-Dichloropropene	ND		40
1,2-Dibromo-3-Chloropropane	ND		80
Ethylene Dibromide	ND		40
Dibromomethane	ND		40
Dichlorodifluoromethane	ND		40
1,1-Dichloroethane	ND		40
1,2-Dichloroethane	ND		40
1,1-Dichloroethene	ND		40
cis-1,2-Dichloroethene	800		40
trans-1,2-Dichloroethene	ND		40
1,2-Dichloropropane	ND		40
cis-1,3-Dichloropropene	ND		40
trans-1,3-Dichloropropene	ND		40
Ethylbenzene	ND		40
Hexachlorobutadiene	ND		80
Isopropylbenzene	ND		40
4-Isopropyltoluene	ND		80
Methylene Chloride	ND		400

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: MW-DUP

Lab Sample ID: 720-6597-2
Client Matrix: Water

Date Sampled: 11/20/2006 1030
Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-15825	Instrument ID: Saturn 2K3
Preparation:	5030B		Lab File ID: d:\data\200611\112806\SA-
Dilution:	80		Initial Weight/Volume: 40 mL
Date Analyzed:	11/28/2006 1636		Final Weight/Volume: 40 mL
Date Prepared:	11/28/2006 1636		

Analyte	Result (ug/L)	Qualifier	RL
methyl isobutyl ketone	ND		4000
Naphthalene	ND		80
N-Propylbenzene	ND		80
Styrene	ND		40
1,1,1,2-Tetrachloroethane	ND		40
1,1,2,2-Tetrachloroethane	ND		40
Tetrachloroethene	5800		40
Toluene	ND		40
1,2,3-Trichlorobenzene	ND		80
1,2,4-Trichlorobenzene	ND		80
1,1,1-Trichloroethane	ND		40
1,1,2-Trichloroethane	ND		40
Trichloroethene	360		40
Trichlorofluoromethane	ND		80
1,2,3-Trichloropropane	ND		40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40
1,2,4-Trimethylbenzene	ND		40
1,3,5-Trimethylbenzene	ND		40
Vinyl acetate	ND		4000
Vinyl chloride	ND		40
Xylenes, Total	ND		80
2,2-Dichloropropane	ND		40
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	108		79 - 118
1,2-Dichloroethane-d4 (Surr)	104		78 - 117
Toluene-d8 (Surr)	97		77 - 121

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: MW-3

Lab Sample ID: 720-6597-3
Client Matrix: Water

Date Sampled: 11/20/2006 1310
Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-15825 Instrument ID: Saturn 2K3
Preparation: 5030B Lab File ID: d:\data\200611\112806\SA-
Dilution: 2.0 Initial Weight/Volume: 40 mL
Date Analyzed: 11/28/2006 1922 Final Weight/Volume: 40 mL
Date Prepared: 11/28/2006 1922

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		10
Acetone	ND		100
Benzene	ND		1.0
Dichlorobromomethane	ND		1.0
Bromobenzene	ND		2.0
Chlorobromomethane	ND		2.0
Bromoform	ND		2.0
Bromomethane	ND		2.0
Methyl Ethyl Ketone	ND		100
n-Butylbenzene	ND		2.0
sec-Butylbenzene	ND		2.0
tert-Butylbenzene	ND		2.0
Carbon disulfide	ND		10
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		2.0
Chloroform	ND		2.0
Chloromethane	ND		2.0
2-Chlorotoluene	ND		1.0
4-Chlorotoluene	ND		1.0
Chlorodibromomethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,3-Dichloropropane	ND		2.0
1,1-Dichloropropene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		2.0
Ethylene Dibromide	ND		1.0
Dibromomethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,2-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
cis-1,2-Dichloroethene	9.5		1.0
trans-1,2-Dichloroethene	ND		1.0
1,2-Dichloropropane	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Ethylbenzene	ND		1.0
Hexachlorobutadiene	ND		2.0
Isopropylbenzene	ND		1.0
4-Isopropyltoluene	ND		2.0
Methylene Chloride	ND		10

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: MW-3

Lab Sample ID: 720-6597-3
 Client Matrix: Water

Date Sampled: 11/20/2006 1310
 Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B	Analysis Batch: 720-15825	Instrument ID: Saturn 2K3
Preparation: 5030B		Lab File ID: d:\data\200611\112806\SA-
Dilution: 2.0		Initial Weight/Volume: 40 mL
Date Analyzed: 11/28/2006 1922		Final Weight/Volume: 40 mL
Date Prepared: 11/28/2006 1922		

Analyte	Result (ug/L)	Qualifier	RL
methyl isobutyl ketone	ND		100
Naphthalene	ND		2.0
N-Propylbenzene	ND		2.0
Styrene	ND		1.0
1,1,1,2-Tetrachloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
Tetrachloroethene	93		1.0
Toluene	ND		1.0
1,2,3-Trichlorobenzene	ND		2.0
1,2,4-Trichlorobenzene	ND		2.0
1,1,1-Trichloroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
Trichloroethene	7.2		1.0
Trichlorofluoromethane	ND		2.0
1,2,3-Trichloropropane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,2,4-Trimethylbenzene	ND		1.0
1,3,5-Trimethylbenzene	ND		1.0
Vinyl acetate	ND		100
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0
2,2-Dichloropropane	ND		1.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	105		79 - 118
1,2-Dichloroethane-d4 (Surr)	100		78 - 117
Toluene-d8 (Surr)	98		77 - 121

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: MW-2

Lab Sample ID: 720-6597-4
 Client Matrix: Water

Date Sampled: 11/20/2006 1440
 Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-15825	Instrument ID: Saturn 2K3
Preparation:	5030B		Lab File ID: d:\data\200611\112806\SA-
Dilution:	100		Initial Weight/Volume: 40 mL
Date Analyzed:	11/28/2006 2208		Final Weight/Volume: 40 mL
Date Prepared:	11/28/2006 2208		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		500
Acetone	ND		5000
Benzene	ND		50
Dichlorobromomethane	ND		50
Bromobenzene	ND		100
Chlorobromomethane	ND		100
Bromoform	ND		100
Bromomethane	ND		100
Methyl Ethyl Ketone	ND		5000
n-Butylbenzene	ND		100
sec-Butylbenzene	ND		100
tert-Butylbenzene	ND		100
Carbon disulfide	ND		500
Carbon tetrachloride	ND		50
Chlorobenzene	ND		50
Chloroethane	ND		100
Chloroform	ND		100
Chloromethane	ND		100
2-Chlorotoluene	ND		50
4-Chlorotoluene	ND		50
Chlorodibromomethane	ND		50
1,2-Dichlorobenzene	ND		50
1,3-Dichlorobenzene	ND		50
1,4-Dichlorobenzene	ND		50
1,3-Dichloropropane	ND		100
1,1-Dichloropropene	ND		50
1,2-Dibromo-3-Chloropropane	ND		100
Ethylene Dibromide	ND		50
Dibromomethane	ND		50
Dichlorodifluoromethane	ND		50
1,1-Dichloroethane	ND		50
1,2-Dichloroethane	ND		50
1,1-Dichloroethene	ND		50
cis-1,2-Dichloroethene	800		50
trans-1,2-Dichloroethene	ND		50
1,2-Dichloropropane	ND		50
cis-1,3-Dichloropropene	ND		50
trans-1,3-Dichloropropene	ND		50
Ethylbenzene	ND		50
Hexachlorobutadiene	ND		100
Isopropylbenzene	ND		50
4-Isopropyltoluene	ND		100
Methylene Chloride	ND		500

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: MW-2

Lab Sample ID: 720-6597-4
 Client Matrix: Water

Date Sampled: 11/20/2006 1440
 Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-15825	Instrument ID: Saturn 2K3
Preparation:	5030B		Lab File ID: d:\data\200611\112806\SA-
Dilution:	100		Initial Weight/Volume: 40 mL
Date Analyzed:	11/28/2006 2208		Final Weight/Volume: 40 mL
Date Prepared:	11/28/2006 2208		

Analyte	Result (ug/L)	Qualifier	RL
methyl isobutyl ketone	ND		5000
Naphthalene	ND		100
N-Propylbenzene	ND		100
Styrene	ND		50
1,1,1,2-Tetrachloroethane	ND		50
1,1,2,2-Tetrachloroethane	ND		50
Tetrachloroethene	5700		50
Toluene	ND		50
1,2,3-Trichlorobenzene	ND		100
1,2,4-Trichlorobenzene	ND		100
1,1,1-Trichloroethane	ND		50
1,1,2-Trichloroethane	ND		50
Trichloroethene	370		50
Trichlorofluoromethane	ND		100
1,2,3-Trichloropropane	ND		50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50
1,2,4-Trimethylbenzene	ND		50
1,3,5-Trimethylbenzene	ND		50
Vinyl acetate	ND		5000
Vinyl chloride	ND		50
Xylenes, Total	ND		100
2,2-Dichloropropane	ND		50
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	112		79 - 118
1,2-Dichloroethane-d4 (Surr)	99		78 - 117
Toluene-d8 (Surr)	98		77 - 121

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: MW-1

Lab Sample ID: 720-6597-5
 Client Matrix: Water

Date Sampled: 11/20/2006 1515
 Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-15792	Instrument ID: Saturn 2K3
Preparation:	5030B		Lab File ID: d:\data\200611\112706\SA-
Dilution:	100		Initial Weight/Volume: 40 mL
Date Analyzed:	11/27/2006 2051		Final Weight/Volume: 40 mL
Date Prepared:	11/27/2006 2051		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		500
Acetone	ND		5000
Benzene	ND		50
Dichlorobromomethane	ND		50
Bromobenzene	ND		100
Chlorobromomethane	ND		100
Bromoform	ND		100
Bromomethane	ND		100
Methyl Ethyl Ketone	ND		5000
n-Butylbenzene	ND		100
sec-Butylbenzene	ND		100
tert-Butylbenzene	ND		100
Carbon disulfide	ND		500
Carbon tetrachloride	ND		50
Chlorobenzene	ND		50
Chloroethane	ND		100
Chloroform	ND		100
Chloromethane	ND		100
2-Chlorotoluene	ND		50
4-Chlorotoluene	ND		50
Chlorodibromomethane	ND		50
1,2-Dichlorobenzene	ND		50
1,3-Dichlorobenzene	ND		50
1,4-Dichlorobenzene	ND		50
1,3-Dichloropropane	ND		100
1,1-Dichloropropene	ND		50
1,2-Dibromo-3-Chloropropane	ND		100
Ethylene Dibromide	ND		50
Dibromomethane	ND		50
Dichlorodifluoromethane	ND		50
1,1-Dichloroethane	ND		50
1,2-Dichloroethane	ND		50
1,1-Dichloroethene	ND		50
cis-1,2-Dichloroethene	370		50
trans-1,2-Dichloroethene	ND		50
1,2-Dichloropropane	ND		50
cis-1,3-Dichloropropene	ND		50
trans-1,3-Dichloropropene	ND		50
Ethylbenzene	ND		50
Hexachlorobutadiene	ND		100
Isopropylbenzene	ND		50
4-Isopropyltoluene	ND		100
Methylene Chloride	ND		500

Analytical Data

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Client Sample ID: MW-1

Lab Sample ID: 720-6597-5
Client Matrix: Water

Date Sampled: 11/20/2006 1515
Date Received: 11/20/2006 1630

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B	Analysis Batch: 720-15792	Instrument ID: Saturn 2K3
Preparation: 5030B		Lab File ID: d:\data\200611\112706\SA-
Dilution: 100		Initial Weight/Volume: 40 mL
Date Analyzed: 11/27/2006 2051		Final Weight/Volume: 40 mL
Date Prepared: 11/27/2006 2051		

Analyte	Result (ug/L)	Qualifier	RL
methyl isobutyl ketone	ND		5000
Naphthalene	ND		100
N-Propylbenzene	ND		100
Styrene	ND		50
1,1,1,2-Tetrachloroethane	ND		50
1,1,2,2-Tetrachloroethane	ND		50
Tetrachloroethene	3100		50
Toluene	ND		50
1,2,3-Trichlorobenzene	ND		100
1,2,4-Trichlorobenzene	ND		100
1,1,1-Trichloroethane	ND		50
1,1,2-Trichloroethane	ND		50
Trichloroethene	370		50
Trichlorofluoromethane	ND		100
1,2,3-Trichloropropane	ND		50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50
1,2,4-Trimethylbenzene	ND		50
1,3,5-Trimethylbenzene	ND		50
Vinyl acetate	ND		5000
Vinyl chloride	ND		50
Xylenes, Total	ND		100
2,2-Dichloropropane	ND		50
Surrogate	%Rec	Acceptance Limits	
4-Bromofluorobenzene	106	79 - 118	
1,2-Dichloroethane-d4 (Surr)	103	78 - 117	
Toluene-d8 (Surr)	101	77 - 121	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-15777					
LCS 720-15777/1	Lab Control Spike	T	Water	8260B	
MB 720-15777/2	Method Blank	T	Water	8260B	
720-6597-1TB	TRIP BLANK	T	Water	8260B	
Analysis Batch:720-15792					
LCS 720-15792/3	Lab Control Spike	T	Water	8260B	
MB 720-15792/4	Method Blank	T	Water	8260B	
720-6597-5	MW-1	T	Water	8260B	
720-6597-5MS	Matrix Spike	T	Water	8260B	
720-6597-5MSD	Matrix Spike Duplicate	T	Water	8260B	
Analysis Batch:720-15825					
LCS 720-15825/1	Lab Control Spike	T	Water	8260B	
MB 720-15825/2	Method Blank	T	Water	8260B	
720-6597-2	MW-DUP	T	Water	8260B	
720-6597-2MS	Matrix Spike	T	Water	8260B	
720-6597-2MSD	Matrix Spike Duplicate	T	Water	8260B	
720-6597-3	MW-3	T	Water	8260B	
720-6597-4	MW-2	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Method Blank - Batch: 720-15777

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 720-15777/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/27/2006 1434
Date Prepared: 11/27/2006 1434

Analysis Batch: 720-15777
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200611\11
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
Isopropylbenzene	ND		0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Method Blank - Batch: 720-15777

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 720-15777/2
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 11/27/2006 1434
 Date Prepared: 11/27/2006 1434

Analysis Batch: 720-15777
 Prep Batch: N/A
 Units: ug/L

Instrument ID: Varian 3900G
 Lab File ID: c:\saturnws\data\200611\11
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	108	79 - 118	
1,2-Dichloroethane-d4 (Surr)	113	78 - 117	
Toluene-d8 (Surr)	111	77 - 121	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Lab Control Spike - Batch: 720-15777

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-15777/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/27/2006 1400
Date Prepared: 11/27/2006 1400

Analysis Batch: 720-15777
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200611\11'
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	18.7	93	69 - 129	
Chlorobenzene	20.0	20.6	103	61 - 121	
1,1-Dichloroethene	20.0	19.5	97	65 - 125	
Toluene	20.0	19.4	97	70 - 130	
Trichloroethene	20.0	17.4	87	74 - 134	
Surrogate			% Rec	Acceptance Limits	
4-Bromofluorobenzene			109	79 - 118	
1,2-Dichloroethane-d4 (Surr)			112	78 - 117	
Toluene-d8 (Surr)			105	77 - 121	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Method Blank - Batch: 720-15792

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 720-15792/4

Analysis Batch: 720-15792

Instrument ID: Saturn 2K3

Client Matrix: Water

Prep Batch: N/A

Lab File ID: d:\data\200611\112706\MB

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 40 mL

Date Analyzed: 11/27/2006 1304

Final Weight/Volume: 40 mL

Date Prepared: 11/27/2006 1304

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
Isopropylbenzene	ND		0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Method Blank - Batch: 720-15792

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-15792/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/27/2006 1304
Date Prepared: 11/27/2006 1304

Analysis Batch: 720-15792
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200611\112706\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	111	79 - 118
1,2-Dichloroethane-d4 (Surr)	105	78 - 117
Toluene-d8 (Surr)	98	77 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Lab Control Spike - Batch: 720-15792

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 720-15792/3

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 11/27/2006 1231

Date Prepared: 11/27/2006 1231

Analysis Batch: 720-15792

Prep Batch: N/A

Units: ug/L

Instrument ID: Saturn 2K3

Lab File ID: d:\data\200611\112706\LS-

Initial Weight/Volume: 40 mL

Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	20.1	100	69 - 129	
Chlorobenzene	20.0	21.9	110	61 - 121	
1,1-Dichloroethene	20.0	21.0	105	65 - 125	
Toluene	20.0	20.2	101	70 - 130	
Trichloroethene	20.0	18.6	93	74 - 134	
Surrogate			% Rec	Acceptance Limits	
4-Bromofluorobenzene			111	79 - 118	
1,2-Dichloroethane-d4 (Surr)			99	78 - 117	
Toluene-d8 (Surr)			96	77 - 121	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-15792**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 720-6597-5
Client Matrix: Water
Dilution: 100
Date Analyzed: 11/27/2006 2124
Date Prepared: 11/27/2006 2124

Analysis Batch: 720-15792
Prep Batch: N/A

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200611\112706\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 720-6597-5
Client Matrix: Water
Dilution: 100
Date Analyzed: 11/27/2006 2157
Date Prepared: 11/27/2006 2157

Analysis Batch: 720-15792
Prep Batch: N/A

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200611\112706\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	102	101	69 - 129	1	20		
Chlorobenzene	110	108	61 - 121	1	20		
1,1-Dichloroethene	102	102	65 - 125	0	20		
Toluene	102	101	70 - 130	1	20		
Trichloroethene	92	92	74 - 134	0	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	107		108		79 - 118		
1,2-Dichloroethane-d4 (Surr)	99		99		78 - 117		
Toluene-d8 (Surr)	98		100		77 - 121		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Method Blank - Batch: 720-15825

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 720-15825/2

Analysis Batch: 720-15825

Instrument ID: Saturn 2K3

Client Matrix: Water

Prep Batch: N/A

Lab File ID: d:\data\200611\112806\MB

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 40 mL

Date Analyzed: 11/28/2006 1243

Final Weight/Volume: 40 mL

Date Prepared: 11/28/2006 1243

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
Isopropylbenzene	ND		0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Method Blank - Batch: 720-15825

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-15825/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/28/2006 1243
Date Prepared: 11/28/2006 1243

Analysis Batch: 720-15825
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200611\112806\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	110	79 - 118	
1,2-Dichloroethane-d4 (Surr)	102	78 - 117	
Toluene-d8 (Surr)	98	77 - 121	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Lab Control Spike - Batch: 720-15825

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 720-15825/1

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 11/28/2006 1210

Date Prepared: 11/28/2006 1210

Analysis Batch: 720-15825

Prep Batch: N/A

Units: ug/L

Instrument ID: Saturn 2K3

Lab File ID: d:\data\200611\112806\LS-

Initial Weight/Volume: 40 mL

Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	20.6	103	69 - 129	
Chlorobenzene	20.0	21.9	109	61 - 121	
1,1-Dichloroethene	20.0	20.8	104	65 - 125	
Toluene	20.0	20.4	102	70 - 130	
Trichloroethene	20.0	18.2	91	74 - 134	
Surrogate		% Rec		Acceptance Limits	
4-Bromofluorobenzene		109		79 - 118	
1,2-Dichloroethane-d4 (Surr)		94		78 - 117	
Toluene-d8 (Surr)		100		77 - 121	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: GeoSyntec Consultants

Job Number: 720-6597-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-15825**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 720-6597-2
Client Matrix: Water
Dilution: 80
Date Analyzed: 11/28/2006 1709
Date Prepared: 11/28/2006 1709

Analysis Batch: 720-15825
Prep Batch: N/A

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200611\112806\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 720-6597-2
Client Matrix: Water
Dilution: 80
Date Analyzed: 11/28/2006 1742
Date Prepared: 11/28/2006 1742

Analysis Batch: 720-15825
Prep Batch: N/A

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200611\112806\SA-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	99	106	69 - 129	7	20		
Chlorobenzene	113	111	61 - 121	2	20		
1,1-Dichloroethene	103	105	65 - 125	2	20		
Toluene	99	105	70 - 130	5	20		
Trichloroethene	89	94	74 - 134	5	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	108		111		79 - 118		
1,2-Dichloroethane-d4 (Surr)	100		101		78 - 117		
Toluene-d8 (Surr)	97		101		77 - 121		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report To					Analysis Request												Number of Containers							
Attn: Sergio Santos					<input type="checkbox"/> TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> Purgeable Aromatics <input type="checkbox"/> BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B <input type="checkbox"/> TEPH EPA 801.5M* <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other <input type="checkbox"/> Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA ED6 <input type="checkbox"/> Ethanol <input type="checkbox"/> Purgeable Halocarbons <input type="checkbox"/> (H-VOCs) EPA 8021 by 8260B <input checked="" type="checkbox"/> Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624 <input type="checkbox"/> Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625 <input type="checkbox"/> Oil and Grease <input type="checkbox"/> Petroleum <input type="checkbox"/> (EPA 1664) <input type="checkbox"/> Total <input type="checkbox"/> Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608 <input type="checkbox"/> PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310 <input type="checkbox"/> CAM17 Metals <input type="checkbox"/> (EPA 6010.7470/7471) <input type="checkbox"/> Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: <input type="checkbox"/> Low Level Metals by EPA 200.8/6020 <input type="checkbox"/> (ICP-MS): <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP <input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H ₂ O) <input type="checkbox"/> Spec Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄																			
Company: GeoSyntec Consultants																								
Address: 475-14 th St, Ste 400 Oakland, CA 94612																								
Phone: (510) 836-3034 Email:																								
Bill To: Same																								
Attn: Same																								
Sampled By: ESS Jacki Lee																								
Phone:																								
Sample ID	Date	Time	Mat rix	Pres erv.																				
Trip Blank	11/20/06	9:00	W	HCl							X													2
MW-DUP	11/20/06	10:30	WG	HCl							X													3
MW-3	11/20/06	13:10	WG	HCl							X													3
MW-2	11/20/06	14:40	WG	HCl							X													3
MW-1	11/20/06	15:15	WG	HCl							X													3

Project Info		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:			
Project Name: Hopyard Cleaners	# of Containers: 5	Head Space:	Temp: 2°C	Signature: [Signature]	Time: 16:30	Signature	Time	Signature	Time		
Project#: WR0574	Conforms to record:	Printed Name: Jacqueline Lee	Date: 11/20/06	Printed Name: [Signature]	Date: 11/20/06	Printed Name	Date	Printed Name	Date		
PO#:	Company: Environmental Sampl. Svcs.	Company	Company	Company	Company	Company	Company	Company	Company		
T A T	5 Day	72h	48h	24h	Other:	1) Received by:		2) Received by:		3) Received by:	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF Special Instructions / Comments: Questions: call Jacki Lee @ 925-260-7999	<input type="checkbox"/> Global ID	Signature: T. Buller	Time: 11/20/06	Signature	Time	Signature	Time	Signature	Time		
	Printed Name: STL-SP	Printed Name	Date	Printed Name	Date	Printed Name	Date	Printed Name	Date		
	Company	Company	Company	Company	Company	Company	Company	Company	Company		

LOGIN SAMPLE RECEIPT CHECK LIST

Client: GeoSyntec Consultants

Job Number: 720-6597-1

Login Number: 6597

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	