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30 January 2009

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 2008 Groundwater and SVE Monitoring
Hopyard Cleaners, 2771 Hopyard Road, Pleasanton, California
Self-Monitoring Program No. R2-2006-0059

Dear Mr. Papler:

On behalf of the property owner, Ms. Clare Leung, Geosyntec Consultants (Geosyntec) prepared this fourth quarter 2008 groundwater and soil vapor extraction (SVE) monitoring report for Hopyard Cleaners located at 2771 Hopyard Road, in Pleasanton, California (the "Site"). 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, San Francisco Bay Region (RWQCB) Order No. R2-2008-0032, issued on 29 May 2008.

The Site monitoring well network consists of seven wells (MW-1 through MW-7). For discussion purposes, the uppermost groundwater zone beneath the Site, which occurs from approximately 20 to 35 feet below ground surface (feet bgs), is referred to as the A Zone, and the deeper groundwater from approximately 40 to 60 feet bgs is referred to as the B Zone. Wells MW-1 through MW-4 are screened in the A Zone, and wells MW-5 through MW-7 are screened in the B Zone. B Zone wells MW-6 and MW-7 were installed in August 2008 and were monitored for the first time in the fourth quarter of 2008. Well completion details are summarized in Table 1. Well locations relative to the Site are shown on Figure 2.

The SVE system with five SVE wells was installed at the Site in August 2008. Geosyntec conducted a pilot test of the SVE system on 19 and 21 August 2008. The SVE system installation, pilot test, and start-up were documented in the *SVE System Installation and Pilot Test Report*, which was submitted to the RWQCB on 29 September 2008. The full-scale SVE operations began on 21 August 2008. An *Addendum to the SVE System Installation and Pilot*

Test Report, which included quarterly SVE influent VOC analysis and recommendations and conclusions, was submitted to the RWQCB on 1 December 2008. The *SVE System Installation and Pilot Test Report* and the *Addendum to the SVE System Installation and Pilot Test Report* was approved by the RWQCB on 9 December 2008.

WORK PERFORMED THIS QUARTER

The following work was performed in the fourth quarter of 2008:

- The fourth quarter groundwater monitoring event was performed on 10 December 2008 using passive diffusion bag (PDB) samplers. This work is discussed in detail in this report.

- SVE monitoring was conducted on 8 October, 17 November, and 5 December 2008. This work is also discussed in detail in this report.

- The *Addendum to the SVE System Installation and Pilot Test Report* was submitted to the RWQCB on 1 December 2008. The *SVE System Installation and Pilot Test Report* and the *Addendum to the SVE System Installation and Pilot Test Report* was approved by the RWQCB on 9 December 2008.

- The *Remedial Action Plan Addendum: Comprehensive Feasibility Study for ISCO & EISB* (RAP Addendum) was submitted to the RWQCB on 24 November 2008. This Rap Addendum included a work plan for a feasibility study to evaluate enhanced in situ bioremediation (EISB) and for additional soil oxidant demand characterization to further evaluate in situ chemical oxidation (ISCO) as remedial alternatives for the Site.

QUARTERLY GROUNDWATER MONITORING

Quarterly groundwater monitoring was performed at the Site on 10 December 2008. PDBs were used to collect samples from MW-1 through MW-7. A study to test the appropriateness of using PDBs was proposed in the *Results of Fourth Quarter 2007 Groundwater Monitoring* report submitted to the RWQCB on 31 January 2008[1] and was verbally approved by the RWQCB in a

[1] Geosyntec Consultants, 2008. *Results of the Fourth Quarter 2007 Groundwater Monitoring, Hopyard Cleaners, 2771 Hopyard Road, Pleasanton, California, Self-Monitoring Program No. R2-2006-0059*, 31 January 2008.

conference call on 12 March 2008. The PDB study was completed in the first and second quarters 2008. In general, cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), and trichloroethene (TCE) concentrations were slightly higher in samples collected from PDBs compared to samples collected using a submersible pump. Sample results reported as non-detect using the conventional sampling method were also non-detect using the PDB sampling method. These results indicate that PDB samplers are an appropriate and reliable method of monitoring volatile organic compounds (VOCs) at this Site. Therefore, PDBs have replaced sampling via peristaltic pump starting in the third quarter 2008.

Two PDBs were deployed in MW-6 and MW-7 during the fourth quarter 2008, as this was the first sampling event for these wells. The water bearing zones for both MW-6 and MW-7 exceed five feet in thickness[2], therefore two PDBs were deployed in each well. These PDBs were placed in the center of the upper and lower 5 feet to assess stratification within the 10-foot well screens. For subsequent monitoring events PDBs will be deployed at the depth with the highest observed concentrations or in the middle of the well screen, if the concentrations are similar.

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.

The PDBs were deployed on 14 July 2008, during the third quarter 2008 monitoring event, in monitoring wells MW-1 through MW-5. PDBs were deployed on 8 September 2008 in MW-6, after well development. MW-7 was paved over by the City of Pleasanton immediately after well development and a PDB could not be deployed at that time. The PDB was deployed in MW-7 on 17 November 2008, after the well was uncovered and inspected and after the well box was raised.

[2] United States Geologic Survey (USGS), 2001a, *User's Guide for Polyethylene-Based Passive Diffusion Bag Samplers to Obtain Volatile Organic Compound Concentrations in Wells, Part 1: Deployment, Recovery, Data Interpretation, and Quality Control and Assurance, Water Resource Investigations Report 01-4060. Part 2: Field Tests, Water-Resources Investigations Report 01-4061.*

On 10 December 2008, the PDBs were removed from the wells and sampled. Samples were hand-delivered to Test America of Pleasanton, California, for analysis. Groundwater samples from the Site monitoring wells were analyzed for VOCs by EPA Method 8260B.

New PDBs for the first quarter 2009 sampling event were deployed in wells MW-1 through MW-5 on 10 December 2008 after the fourth quarter 2008 monitoring event was completed. Based on the results of the stratification study (as shown in Table 4), PDBs will be deployed in MW-6 and MW-7 for the first quarter 2009 monitoring event at the middle of the screen.

Groundwater Elevations and Flow Conditions

Table 2 summarizes groundwater elevations measured during this and previous sampling events. Groundwater in the A Zone (MW-1 through MW-4) beneath the Site was encountered between 16.24 and 18.41 feet bgs, which is between 309.45 and 307.86 feet above Mean Sea Level (MSL). Groundwater in the B Zone was encountered between 31.14 and 33.67 feet bgs, which corresponds to groundwater elevations ranging from 293.34 to 293.52 feet MSL.

Water levels measured during the fourth quarter 2008 event were used to construct groundwater elevation contours for the A Zone and B Zone, as shown in Figure 3 and 4, respectively. Table 3 summarizes groundwater gradients and flow directions for this and previous monitoring events. The fourth quarter 2008 A Zone groundwater contours indicate a general groundwater flow to the west-northwest with an average gradient of 0.0068 feet per feet (ft/ft) (36.1 feet per mile (ft/mi)). This gradient and flow direction is consistent with previous monitoring events, as shown on Table 3. The B Zone groundwater contours indicate general groundwater flow to the southwest under a gradient of approximately 0.0012 ft/ft (6.1 ft/mi).

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. Based on this review, the data are acceptable.

Analytical Results

Laboratory analytical reports are provided in Attachment 2. Table 4 summarizes analytical results for groundwater samples collected during the fourth quarter 2008 event together with historical results. Analytical results for the current sampling event are also shown on Figures 3 and 4 for the A Zone and B Zone, respectively. Isoconcentration contour maps for PCE and

TCE are shown on Figures 5 through 7. The isoconcentration contours were drawn using current data from monitoring wells along with results from grab groundwater samples previously collected at the Site.

Analytical results for samples taken from the four A Zone monitoring wells show the highest VOC concentrations at MW-2. During the fourth quarter 2008, the PCE concentration in both the original and duplicate samples collected from MW-2 was 15,000 micrograms per liter (µg/L). The 15,000 µg/L result is above historical PCE concentrations, which have ranged from 4,700 to 9,500 µg/L. This increase in PCE concentration with respect to previous monitoring events is consistent with the seasonal fluctuations in concentration that have been observed in this well over the past two years (i.e. PCE concentration in MW-2 is generally observed to be inversely proportional to groundwater elevation). VOC concentrations observed during the fourth quarter 2008 in the other A Zone wells (MW-1, MW-3, and MW-4) were consistent with historical results.

PCE is the only VOC detected in the B Zone groundwater. The highest detection of PCE was at the closest B Zone monitoring well to the Site, MW-5, and was at a concentration of 49 µg/L. Farther downgradient of the Site, PCE was detected at MW-7 at 9.8 and 10 µg/L in the shallow and deep PDBs, respectively, and was not detected at MW-6.

As shown on Table 4, the results of the stratification study conducted in MW-6 and MW-7 indicate the there is no stratification in the wells, as VOC concentrations in the shallow and deep PDBs were similar in both wells. For future monitoring events, one PDB will be deployed in the center of both the MW-6 and MW-7 well screens.

SVE PERFORMANCE MONITORING

Startup monitoring of the SVE system was performed on day 1 through 5, day 7, and day 9 of system startup to evaluate system performance and air emissions for the Bay Area Air Quality Management District Permit to Operate (BAAQMD PTO). Monitoring was performed weekly for the first month and monthly thereafter. SVE monitoring has been conducted by Geosyntec and Mako Industries (Mako) of Livermore, California. Monthly monitoring during the fourth quarter 2008 was conducted on 8 October, 17 November, and 5 December 2008. The SVE system layout is shown on Figure 2. The SVE well locations and piping layout inside the dry cleaners is shown on Figure 8.

SVE Monitoring Procedures

SVE monitoring includes the following procedures:

- Perform photoionization detector (PID) screening via Tedlar® bags of:
    - Samples collected from the system influent, mid-point between the two granular activated carbon (GAC) vessels, and the system effluent to evaluate air emissions, and
    - Samples collected at each SVE wellhead (shown on Figure 2).
- Record vacuum response at each SVE wellhead;
- Record flow rate and vacuum response at the manifold;
- Record vacuum, temperature, and flow rate readings at system influent;
- Record hour meter;
- Inspect the moisture separator water level and drain into 55-gallon drums, if necessary; and
- Record the electrical meter reading.

As discussed in the *SVE System Installation and Pilot Test Report* and subsequent *Addendum SVE System Installation and Pilot Test Report*, influent SVE samples were collected in 1-liter Summa canisters for laboratory analysis by TO-15 during start-up testing and on a quarterly basis to correlate VOC concentrations with monthly PID readings. The laboratory analytical results from the sample collected during start-up testing indicated that PCE is the primary constituent of concern being removed from the target remediation zone. The analytical results showed similar VOC concentrations to PID reading collected at the same time, indicating that PID screening is effective at monitoring SVE performance.

SVE Monitoring Results

Influent concentrations of VOCs into the SVE system have ranged from 0.7 to 13.0 parts per million by volume (ppmv) with the highest concentrations detected during system startup (Table 5 and Figure 9. During the fourth quarter 2008, influent VOCs concentrations averaged 0.8 ppmv. After four months of operations, the SVE system has removed approximately 7.83 pounds (lbs) (0.58 gallons) of VOCs as equivalent PCE (Table 5 and Figure 10).

The laboratory analytical results indicate that PCE is the primary COC being removed from the target remediation zone, as shown in Table 6 and in the laboratory analytical report provided in Attachment 2. The PID reading of the sample collected on 21 August 2008 was significantly higher than the analytical result due to the time lapse between the PID measurement and sample collection. The laboratory samples collected on 2 September 2008 and 5 December 2008 were collected right after the PID measurements and the analytical results indicate similar VOC concentrations.

PID screening of the SVE wells indicate that the highest concentrations of VOCs are consistently being extracted from SVE-1, while the lowest concentrations are being extracted from SVE-3 and SVE-5 (Table 7).

SVE Operations and Maintenance

The system has been under continuous operation since startup on 21 August 2008, except for an approximately 2-hour time period on 29 August 2008 when the blower shut-off switch was tripped.

During the first month of operation, maintenance on the system has been performed to reduce the noise from the effluent discharger pipe and blower, including installation of a larger muffler on the system effluent, splitting the effluent into two discharge pipes, and installing foam around the blower box and along the southwest fence of the compound. Although these measures reduced the noise, Geosyntec received complaints concerning the noise at night from residents in the vicinity of the dry cleaners (both across Hopyard Road and Valley Road). In response to these complaints, the SVE system operation schedule was modified on 3 September 2008. A timer was installed by Mako to have the system run from the hours of 8 am to 10 pm.

No maintenance activities were preformed during the fourth quarter 2008.

FUTURE WORK

The following work will be completed during the first quarter 2009:

- The *Revised Remedial Action Plan*, including a human health risk assessment will be submitted to the RWQCB during the first quarter 2009.

- The next quarterly groundwater monitoring event will be performed in January 2009. PBD will be deployed in the center of MW-6 and MW-7 well screens at least two weeks

prior to sampling. Results of the first quarter 2009 monitoring report will be submitted to the RWQCB by 30 April 2009.

- During the first quarter 2009, Geosyntec will begin cyclic operation on the SVE wells and optimization to enhance VOC removal rates:
    - SVE extraction wells with the lowest VOC concentrations (SVE-3 and SVE-5) will be turned off for a two week period in January 2009. SVE monitoring will be conducted after the two week period. After monitoring, these two wells will be turned back on and the three wells with the highest VOC concentrations (SVE-1, SVE-2, and SVE-4) will then be turned off for two weeks.
    - Based on the monitoring results of the cyclic operations in January 2009, SVE system operations will be modified to optimally extract VOCs.
- SVE monitoring will continue on a monthly basis at a minimum with one sample being collected for TO-15 analysis during the first quarter 2009. Results of the monitoring will be presented in the first quarter 2009 monitoring report due to the RWQCB on 30 April 2009.
- The soil and groundwater sampling detailed in the RAP Addendum will be conducted in January 2009.

If you have any questions or comments, please contact Angela Liang at (510) 285-2700.

Sincerely,

Melissa Asher

Melissa Asher, P.E.
Engineer

Angela Liang

Hanchih (Angela) Liang, Ph.D., P.E.
Senior Engineer

Attachments:

Table 1	Well Construction Summary
Table 2	Groundwater Elevations
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Figure 7	TCE Isoconcentration Contours in A Zone Groundwater (20 to 35 ft bgs) – Fourth Quarter 2008
Figure 8	Soil Vapor Extraction Well Locations and Piping Layout
Figure 9	SVE Influent Concentrations Over Time
Figure 10	SVE Cumulative Mass Removal
Attachment 1	Environmental Sampling Services Field Report
Attachment 2	Laboratory Analytical Reports

Copy with Attachments: Ms. Clare Leung, Hopyard Cleaners
Ms. Joy Ricigliano, Zurich Insurance
Mr. Mark Peterson, GES
Mr. Wyman Hong, Zone 7 Water Agency
Mr. Jerry Wickham, Alameda County Environmental Health
Ms. Danielle Stefani, City of Pleasanton Fire Department
Mr. William Henderlong, Town & Country Properties

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		
A Zone Monitoring Wells										
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
MW-4	7/20/2007	2071382.30	6157557.57	326.27	36.5	35	25.00	35.00	SCH 40 PVC	2
B Zone Monitoring Wells										
MW-5*	7/19/2007	2071292.25	6157654.24	327.19	60	60	50.00	60.00	SCH 40 PVC	2
MW-6	8/19/2008	2071280.12	6157384.43	324.48	59	59	49.00	59.00	SCH 40 PVC	2
MW-7	8/20/2008	2071076.06	6157645.52	324.55	56	55	45.00	55.00	SCH 40 PVC	2

Notes:
ft bgs = feet below ground surface
MSL = mean sea level
TOC = Top of Casing
Elevations are based on NAVD 88 Datum
* Conductor casing was installed from 0 to 40 ft bgs.

Table 2
Groundwater Elevations
Hopyard Cleaners
Pleasanton, California

Well I.D. (Screen Interval)	TOC Elevation (ft MSL)	Sample Date	Depth to Groundwater Below TOC (ft)	Groundwater Elevation (ft MSL)
A Zone Monitoring Wells				
MW-1 (20-30 ft bgs)	325.77	12/10/2008	16.78	308.99
		7/14/2008	13.79	311.98
		5/16/2008	11.70	314.07
		2/15/2008	11.38	314.39
		1/3/2008	13.63	312.14
		8/3/2007	14.40	311.37
		5/11/2007	12.27	313.50
		2/9/2007	13.98	311.79
		11/20/2006	14.88	310.89
MW-2 (20-30 ft bgs)	325.69	12/10/2008	16.24	309.45
		7/14/2008	13.23	312.46
		5/16/2008	11.30	314.39
		2/15/2008	10.87	314.82
		1/3/2008	13.21	312.48
		8/3/2007	13.72	311.97
		5/11/2007	11.87	313.82
		2/9/2007	13.55	312.14
		11/20/2006	14.36	311.33
MW-3 (20-30 ft bgs)	326.27	12/10/2008	17.17	309.10
		7/14/2008	14.21	312.06
		5/16/2008	12.18	314.09
		2/15/2008	11.68	314.59
		1/3/2008	14.02	312.25
		8/3/2007	14.68	311.59
		5/11/2007	12.72	313.55
		2/9/2007	14.41	311.86
		11/20/2006	15.28	310.99
MW-4 (25-35 ft bgs)	326.27	12/10/2008	18.41	307.86
		7/14/2008	13.81	312.46
		5/16/2008	12.12	314.15
		2/15/2008	12.05	314.22
		1/3/2008	14.73	311.54
		8/3/2007	15.85	310.42

Table 2
Groundwater Elevations
Hopyard Cleaners
Pleasanton, California

Well I.D. (Screen Interval)	TOC Elevation (ft MSL)	Sample Date	Depth to Groundwater Below TOC (ft)	Groundwater Elevation (ft MSL)
B Zone Monitoring Wells				
MW-5 (50-60 ft bgs)	327.19	12/10/2008	33.67	293.52
		7/14/2008	32.16	295.03
		5/16/2008	23.06	304.13
		2/15/2008	19.74	307.45
		1/3/2008	22.65	304.54
		8/3/2007	30.51	296.68
MW-6 (49-59 ft bgs)	324.48	12/10/2008	31.14	293.34
MW-7 (45-55 ft bgs)	324.55	12/10/2008	31.21	293.34

Notes:
ft MSL = feet above mean sea level
TOC = Top of Casing
ft bgs = feet below ground surface
Elevations are based on NAVD 88 Datum

Table 3
Groundwater Gradient Summary - A Zone
Hopyard Cleaners
Pleasanton, California

Date	Gradient		General Flow Direction
	ft/ft	ft/mi	
A Zone			
7/14/2008	0.0048	25.5	North
5/16/2008	0.0031	16.5	North-Northwest
2/15/2008	0.0038	20.5	Northwest
1/3/2008	0.0025	13.2	Northwest
8/3/2007	0.0070	37.0	West-Northwest
5/11/2007	0.0030	15.8	North-Northwest
2/9/2007	0.0010	5.3	North-Northwest
11/20/2006	0.0040	22.0	Northwest
12/10/2008	0.0068	36.1	West-Northwest
B Zone			
12/10/2008	0.0012	6.1	Southwest

Notes:
ft/ft = feet per feet
ft/mi = feet per mile

Table 4
Groundwater Analytical Summary
Hopyard Cleaners
Pleasanton, California

Well I.D. (Screen Interval)	Sample Date	Sampling Method	Volatile Organic Compounds - EPA Method 8260B (ug/L)		
			cis-1,2-DCE	PCE	TCE
A Zone Monitoring Wells					
MW-1 (20-30 ft bgs)	12/10/2008	PDB Sampler	250	1,900	350
	7/14/2008	PDB Sampler	230	1,700	250
	5/16/2008	Purge and Sample	250	1,600	280
	5/16/2008	PDB Sampler*	260	1,900	310
	2/29/2008	PDB Sampler*	330	2,000	330
	2/15/2008	Purge and Sample	230	1,400	250
	1/2/2008	Purge and Sample	230	1,600	270
	8/3/2007	Purge and Sample	260	1,600	270
	5/11/2007	Purge and Sample	310	2,500	310
	2/9/2007	Purge and Sample	270 / 270	2,400 / 2,300	290 / 290
	11/20/2006	Purge and Sample	370	3,100	370
MW-2 (20-30 ft bgs)	12/10/2008	PDB Sampler	840 / 770	15,000 / 15,000	790 / 740
	7/14/2008	PDB Sampler	820 / 830	9,500 / 8,100	530 / 500
	5/16/2008	Purge and Sample	900 / 930	5,800 / 5,900	460 / 450
	5/16/2008	PDB Sampler*	940	6,700	480
	2/29/2008	PDB Sampler*	780	5,300	360
	2/15/2008	Purge and Sample	690 / 690	4,100 / 4,000	320 / 300
	1/2/2008	Purge and Sample	940 / 890	8,200 / 8,200	560 / 580
	8/3/2007	Purge and Sample	1,200 / 1,100	8,000 / 8,100	590 / 570
	5/11/2007	Purge and Sample	1,000 / 980	7,200 / 7,300	490 / 450
	2/9/2007	Purge and Sample	760	4,700	350
	11/20/2006	Purge and Sample	800 / 800	5,700 / 5,800	370 / 360
MW-3 (20-30 ft bgs)	12/10/2008	PDB Sampler	5.6	60	5.5
	7/14/2008	PDB Sampler	4.3	43	4.0
	5/16/2008	Purge and Sample	5.0	39	4.3
	5/16/2008	PDB Sampler*	5.4	46	4.4
	2/29/2008	PDB Sampler*	6.9	58	5.9
	2/15/2008	Purge and Sample	6.2	44	5.1
	1/2/2008	Purge and Sample	5.2	46	4.6
	8/3/2007	Purge and Sample	4.7	37	4.2
	5/11/2007	Purge and Sample	5.5	43	4.4
	2/9/2007	Purge and Sample	5.3	42	4.2
	11/20/2006	Purge and Sample	10	93	7.2
MW-4 (25-35 ft bgs)	12/10/2008	PDB Sampler	4.0	<0.50	3.7
	7/14/2008	PDB Sampler	4.7	<0.50	4.0
	5/16/2008	Purge and Sample	3.7	<0.50	2.6
	5/16/2008	PDB Sampler*	3.6	<0.50	2.7
	2/29/2008	PDB Sampler*	3.4	<0.50	3.0
	2/15/2008	Purge and Sample	4.2	<0.50	4.0
	1/3/2008	Purge and Sample	4.2	<0.50	3.5
	8/3/2007	Purge and Sample	4.6	<0.50	3.5

Table 4
Groundwater Analytical Summary
Hopyard Cleaners
Pleasanton, California

Well I.D. (Screen Interval)	Sample Date	Sampling Method	Volatile Organic Compounds - EPA Method 8260B (ug/L)		
			cis-1,2-DCE	PCE	TCE
B Zone Monitoring Wells					
MW-5 (50-60 ft bgs)	12/10/2008	PDB Sampler	<0.50	49	<0.50
	7/14/2008	PDB Sampler	<0.50	31	<0.50
	5/16/2008	Purge and Sample	<0.50	24	<0.50
	5/16/2008	PDB Sampler*	<0.50	34	<0.50
	2/29/2008	PDB Sampler (52.5 ft bgs)*	<0.50	41	<0.50
	2/29/2008	PDB Sampler (57.5 ft bgs)*	<0.50	33	<0.50
	2/15/2008	Purge and Sample	<0.50	26	<0.50
	1/3/2008	Purge and Sample	<0.50	38	<0.50
	8/3/2007	Purge and Sample	<0.50	37	<0.50
MW-6 (49-59 ft bgs)	12/10/2008	PDB Sampler (51.5 ft bgs)*	<0.50	<0.50	<0.50
	12/10/2008	PDB Sampler (56.5 ft bgs)*	<0.50	<0.50	<0.50
MW-7 (45-55 ft bgs)	12/10/2008	PDB Sampler (47.5 ft bgs)*	<0.50	9.8	<0.50
	12/10/2008	PDB Sampler (52.5 ft bgs)*	<0.50	10	<0.50

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

ft bgs = feet below ground surface

PDB = Passive Diffusion Bag Sampler

* Samples collected as part of the PDB comparison study. PDBs were deployed at two depths in the following wells to evaluate stratification: at 52.5 and 57.5 ft bgs in MW-5 for the 1st Quarter 2008 event, at 51.5 and 56.5 ft bgs in MW-6 for the 4th Quarter 2008 event, and at 47.5 and 52.5 ft bgs in MW-7 for the 4th Quarter 2008 event.

Table 5
SVE System Performance Monitoring Results
Hopyard Cleaners
2771 Hopyard Road, Pleasanton, California

	SYSTEM MEASUREMENTS								MASS REMOVAL CALCULATIONS							
Sample Date	Time	Operation Time (Hour)	Influent Flow Rate (ft/min)	System Temp. (^{0}F)	Influent Vacuum (in Hg)	Influent Conc. (ppmv)	Mid-Point Conc. (ppmv)	Effluent Conc. (ppmv)	Vacuum (in water)	Flowrate (cfm)	Flowrate (scfm)	Total Operation Time (hr)	PCE Conc. (mg/m^3)	Mass Removal Rate (lbs/day)	Mass Removed Since Last Sampling Event (lbs)	Cumulative Mass Removal (lbs)
21-Aug-08	9:15	7,569.2	--	--	10.0	13.0	0.2	0.1	136	--	--	--	89.70	--	0.00	0.00
22-Aug-08	9:25	7,593.3	4,590	83.5	10.0	5.5	0.3	0.0	136	210.54	136.22	24.17	37.95	0.7817	0.79	0.79
23-Aug-08	10:00	7,618.0	4,690	78.3	9.5	0.7	0.2	0.1	129	215.13	144.06	48.75	4.83	0.2770	0.28	1.07
24-Aug-08	14:02	7,646.0	4,550	79.5	10.0	0.9	0.3	0.0	136	208.71	136.04	76.78	6.21	0.0675	0.08	1.15
25-Aug-08	16:22	7,672.4	4,450	87.2	10.0	1.1	0.3	0.1	136	204.12	131.17	103.12	7.59	0.0814	0.09	1.24
27-Aug-08	8:14	7,712.1	4,520	74.0	10.0	6.6	0.1	0.0	136	207.33	136.53	142.98	45.54	0.3261	0.54	1.78
29-Aug-08	8:02	7,757.7	4,380	77.9	9.5	1.8	--	--	129	200.91	134.64	190.78	12.42	0.3508	0.70	2.48
2-Sep-08	9:14	7,853.3	4,250	77.5	10.0	1.8	0.1	0.0	136	194.95	127.54	287.98	12.42	0.1424	0.58	3.06
8-Sep-08	8:40	7,996.2	4,290	76.8	8.5	2.1	0.1	0	116	196.78	138.60	379.14	14.49	0.1677	0.64	3.69
18-Sep-08	10:40	8,238.2	4,300	79.0	8.0	0.7	0.0	0.0	109	197.24	141.59	520.31	4.83	0.1230	0.72	4.42
8-Oct-08	10:00	8,715.1	4,300	83.8	8.0	0.8	0.0	0.0	109	197.24	140.34	799.92	5.52	0.0653	0.76	5.18
17-Nov-08	9:30	9,675.1	4,300	66	8.0	0.9	0.0	0.0	109	197.24	145.09	1359.63	6.21	0.0765	1.78	6.96
5-Dec-08	9:26	10,107.1	4,775	49.8	8.0	0.7	0.2	0.0	109	219.03	166.23	1611.59	4.83	0.0825	0.87	7.83

Notes/Assumptions:

1. Inlet pipe diameter is 3".
2. SVE operations were reduced from 24 hours per day to 14 hours (8 am to 10 pm) per day on 3 September 2008.
3. Vapor density of PCE is estimated to be 6,900 g/m3 at 20C.
4. SCFM(at 14.7psia and 68°F) = CFM x([(Pg + Patm)/(Patm)] x [(68 +460)/(Tact +460)])
5. Mass removal calculated as mass PCE

ft/min = feet per minute
oF = degrees fahrenheit
in Hg = inches mercury
in water = inches water
cfm = cubic feet per minute
scfm = standard cubic feet per minute
hr = hour
ppmv = volumetric parts per million
yr = year
lbs = pounds

Table 6
SVE Influent Sample Analytical Summary
Hopyard Cleaners
Pleasanton, California

VOC (ppmv)	Sample Date		
	21-Aug-08	2-Sep-08	5-Dec-08
PCE	3.600	1.200	0.340
TCE	0.051	0.029	0.012
Other[1]	0.022	0.0075	0.043
Total	*3.651*	*1.237*	*0.395*
Influent PID Reading[2]	*13.8*	*1.8*	*0.7*

Notes:

Table shows only compounds detected above the laboratory reporting limit

VOC - Volatile Organic Compound; analyzed by TO-15

ppmv - parts per million by volume

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

PCE - tetrachloroethene

TCE - trichloroethene

PID - Photoionization Detector

(1) Tetrahydrofuran was detected at a concentration of 0.022 ppmv on 21 August 2008; 2-butanone was detected at a concentration of 0.0075 ppmv on 2 September 2008; and freon 12 was detected at a concentration of 0.0014 ppmv, ethanol was detected at 0.0082 ppmv, acetone was detected at 0.0099 ppmv, carbon disulfide was detected at 0.0025 ppmv, methylene chloride was detected at 0.0014 ppmv, 2-butanone was detected at 0.0025 ppmv, tetrahydrofuran was detected at 0.0014 ppmv, benzene was detected at 0.0045 ppmv, and toluene was detected at 0.0076 ppmv on 5 December 2008.

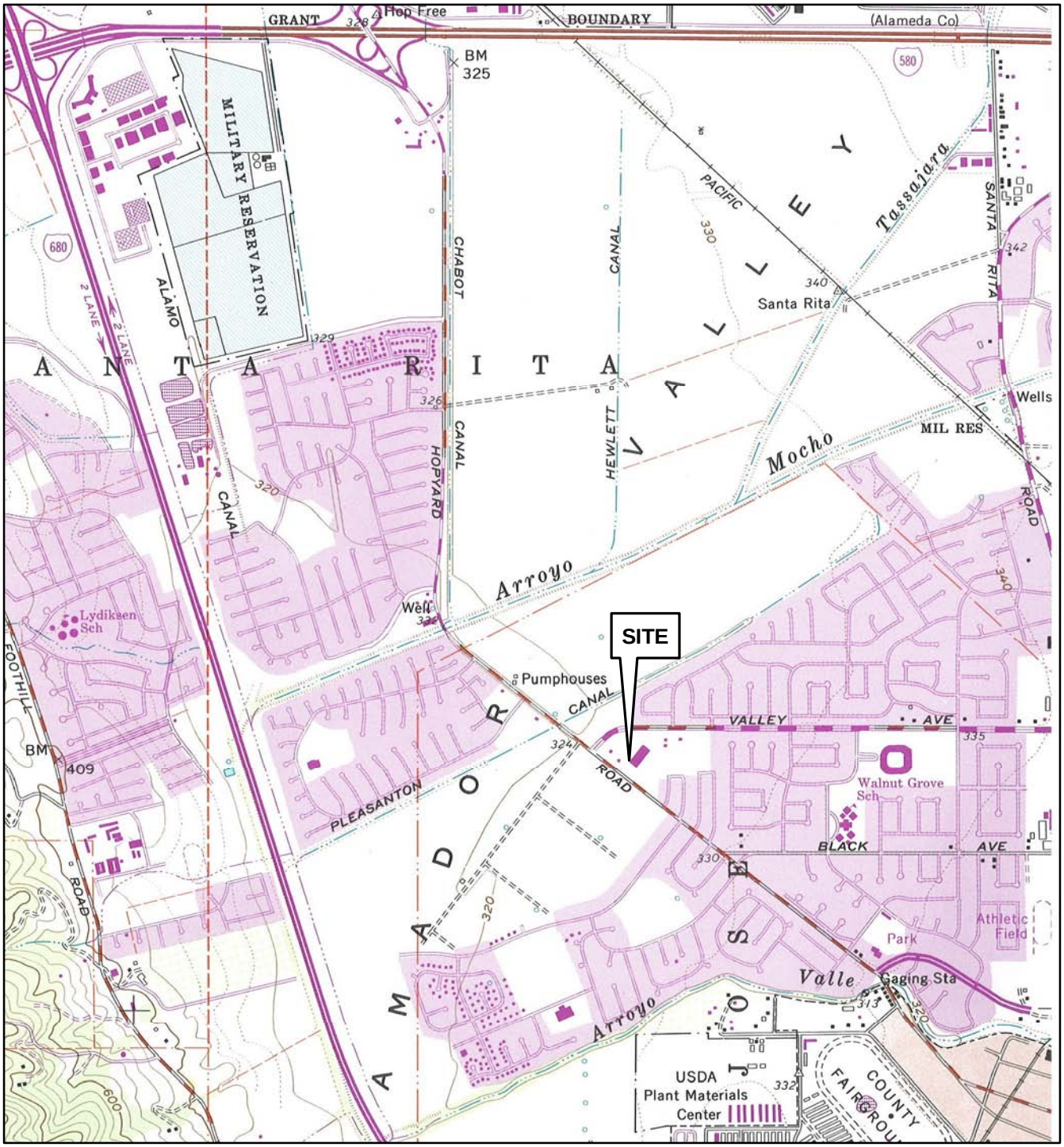
(2) PID screening results from the date sampling was conducted, as presented on Table 5.

Table 7
SVE Well Monitoring Results
Hopyard Cleaners
2771 Hopyard Road, Pleasanton, California

Date	Monitoring Event	MANIFOLD			SVE-1			SVE-2			SVE-3			SVE-4			SVE-5		
		Time	Flow Rate (scfm)	Vacuum (in Hg)	Time	Vacuum (in Hg)	PID (ppmv)	Time	Vacuum (in Hg)	PID (ppmv)	Time	Vacuum (in Hg)	PID (ppmv)	Time	Vacuum (in Hg)	PID (ppmv)	Time	Vacuum (in Hg)	PID (ppmv)
21-Aug-08	Start up Day 1	9:22	240	--	9:24	0	46.8	9:22	1.5	23.8	9:21	2.0	5.0	9:25	1.5	24.3	9:20	2.0	8.8
22-Aug-08	Start-up Day 2	9:41	240	--	9:42	0	20.5	9:40	1.75	12.0	9:38	2.0	2.1	9:44	1.5	8.4	9:37	2.0	4.2
23-Aug-08	Start-up Day 3	10:35	240	--	10:38	0	12.5	10:34	1.5	7.8	10:28	0	2.3	10:26	1.0	6.4	10:31	2.0	3.6
25-Aug-08	Start-up Day 5	16:52	235	--	16:50	0	9.3	16:58	0	4.9	16:55	1.0	1.6	4:46	1.0	4.8	16:53	2.0	2.6
27-Aug-08	Start-up Day 7	8:36	240	--	8:38	0	7.2	8:36	1.5	3.6	8:35	2.0	0.6	8:39	1.5	8.9	8:34	2.0	1.5
2-Sep-08	Start-up Day 13/Week 2	9:43	230	3.5	9:44	0	3.5	9:42	1.5	2.2	9:40	1.75	0.7	9:45	1.5	1.9	9:36	1.5	1.2
8-Sep-08	Start-up Week 3	8:58	230	3.75	9:01	0	2.6	8:59	1.25	2.8	8:58	1.5	2.4	9:02	1.25	1.2	8:57	1.5	2.1
18-Sep-08	1st Month	11:14	235	4	11:16	1.2	1.8	11:14	1.5	0.8	11:12	1.5	0.0	11:17	1.3	0.8	11:10	1.5	0.5
8-Oct-08	2nd Month	10:40	235	3.75	11:04	1.2	1.3	11:00	1.5	1.1	10:57	1.4	0.5	11:07	1.3	1.0	10:51	1.5	0.8
17-Nov-08	3rd Month	9:45	235	3.5	9:48	1.1	1.0	9:46	1.4	0.7	9:44	1.3	0.5	9:50	1.2	0.7	9:42	1.4	0.8
5-Dec-08	4th Month	11:20	240	3.5	11:21	1.1	0.7	11:19	1.3	0.5	11:18	1.3	0.3	11:22	1.1	0.5	11:17	1.4	0.5

Notes:
ft = feet
min = minute
in Hg = inches of mercury
ppmv = parts per million volume
scfm = standard cubic feet per minute

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

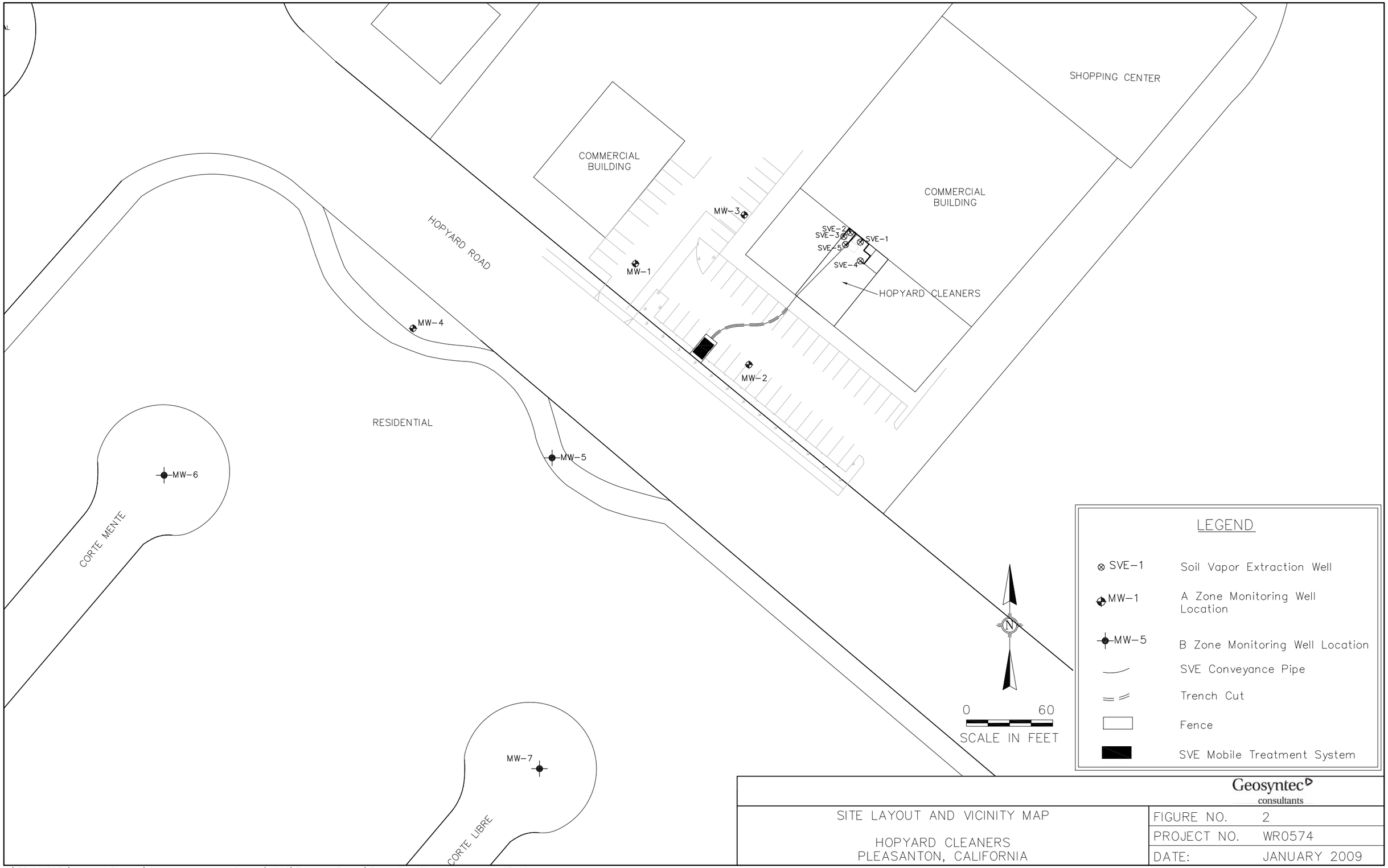
N

0 1,000 2,000 Feet

Geosyntec consultants

FIGURE NO.	1
PROJECT NO.	WR0574
DATE:	JANUARY 2009

P:\GIS\Hopyard\Project\Figure1.mxd



Geosyntec consultants

SITE LAYOUT AND VICINITY MAP

HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	2
PROJECT NO.	WR0574
DATE:	JANUARY 2009

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q08\Tables & Figures\Figure 2 – Site Layout.dwg 1-07-09

SHOPPING CENTER

COMMERCIAL BUILDING

COMMERCIAL BUILDING

HOPYARD ROAD

HOPYARD CLEANERS

RESIDENTIAL

Screen Depth	20–30
PCE	1,900
TCE	350
c–1,2–DCE	250

Screen Depth	20–30
PCE	60
TCE	5.5
c–1,2–DCE	5.6

Screen Depth	25–35
PCE	<0.50
TCE	3.7
c–1,2–DCE	4.0

Screen Depth	20–30
PCE	15,000/15,000
TCE	790/740
c–1,2–DCE	840/770

MW–1 308.99

MW–2 309.45

MW–3 309.10

MW–4 307.86

MW–5

309.10

309.20

309.30

309.40

309.00

308.90

308.80

308.70

308.60

308.50

308.40

308.30

308.20

308.10

308.00

307.90

LEGEND

MW–1 308.99 — A Zone Monitoring Well Location and Groundwater Elevation

MW–5 — B Zone Monitoring Well Location

309.20 — Groundwater Elevation Contour

General Direction of Groundwater Flow

Sample Depth	20–30
PCE	60
TCE	5.5
c–1,2–DCE	5.6

"–– / ––" = Result on Right Represents Duplicate Sample

PCE = Tetrachloroethene
TCE = Trichloroethene
c–1,2–DCE = cis–1,2–Dichloroethene

Notes:
- Groundwater Elevation in Feet Above Mean Sea Level (ft MSL).
- Analytical Results in Micrograms Per Liter (ug/L).
- Screen Depth in Feet Below Ground Surface (ft bgs).

N

0 40

SCALE IN FEET

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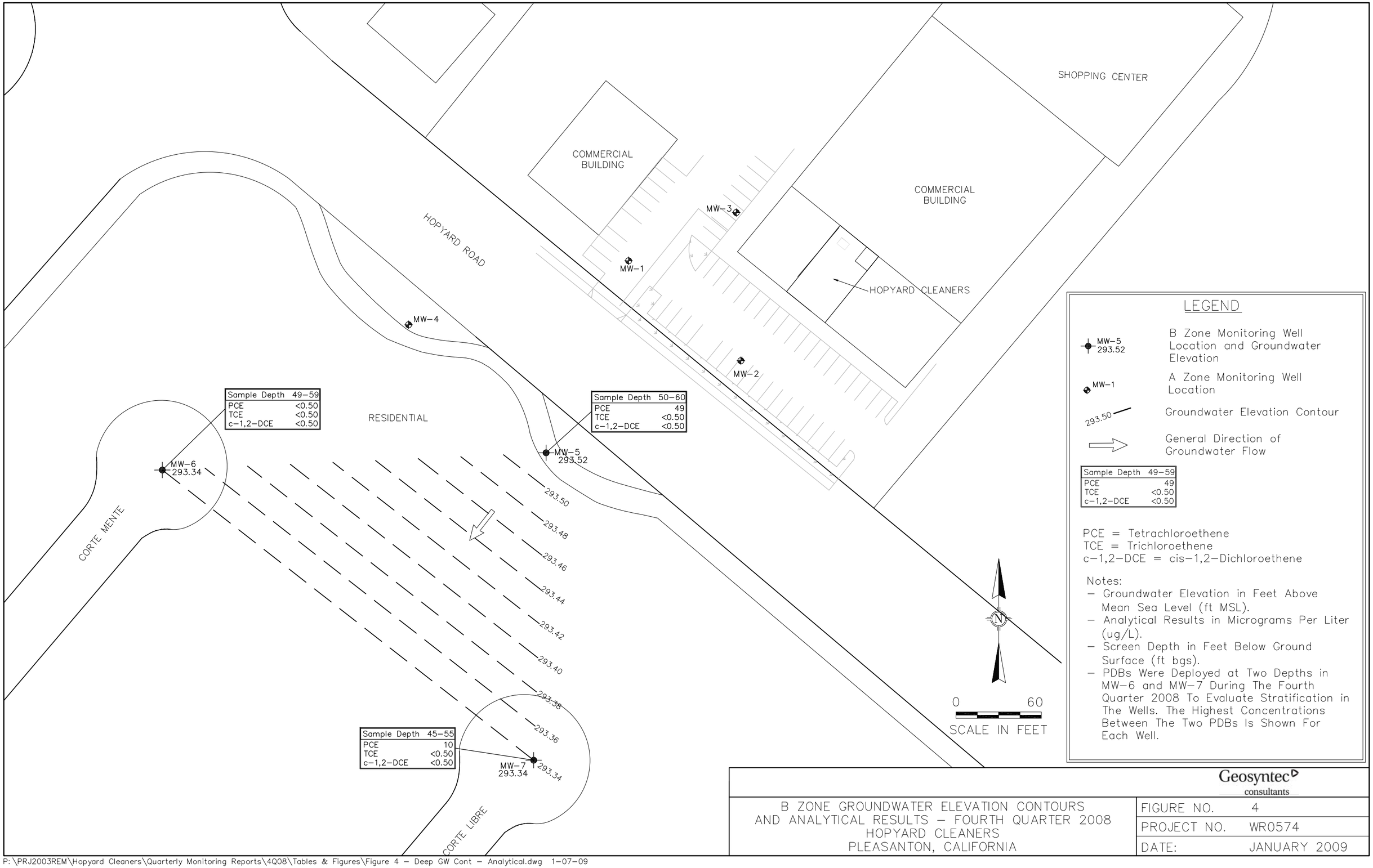
A ZONE GROUNDWATER ELEVATION CONTOURS
AND ANALYTICAL RESULTS – FOURTH QUARTER 2008
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	3
PROJECT NO.	WR0574
DATE:	JANUARY 2009

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q08\Tables & Figures\Figure 3 –Sh GW Cont – Analytical.dwg 1–07–09



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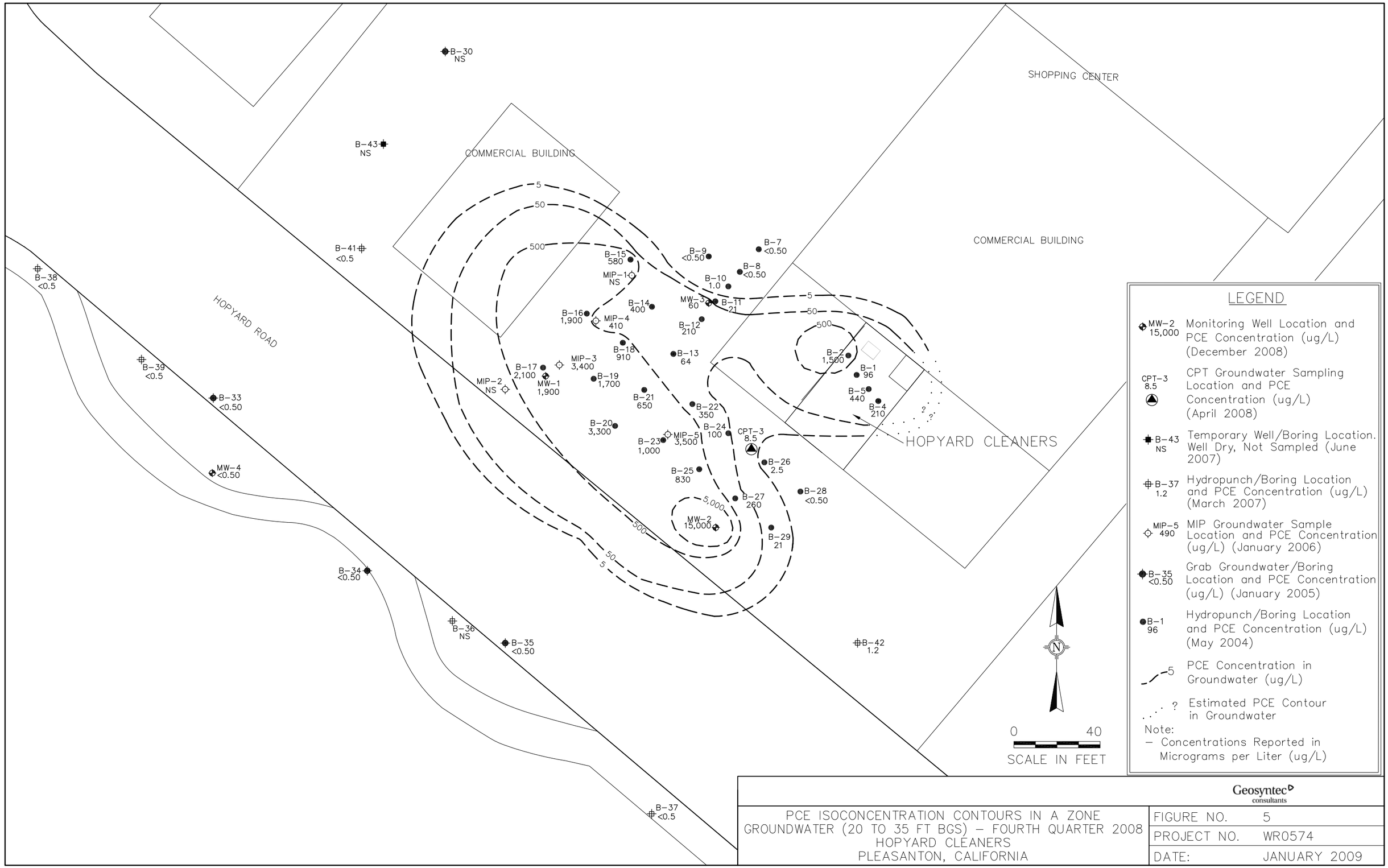
B ZONE GROUNDWATER ELEVATION CONTOURS
AND ANALYTICAL RESULTS – FOURTH QUARTER 2008
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	4
PROJECT NO.	WR0574
DATE:	JANUARY 2009

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q08\Tables & Figures\Figure 4 – Deep GW Cont – Analytical.dwg 1-07-09



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PCE ISOCONCENTRATION CONTOURS IN A ZONE GROUNDWATER (20 TO 35 FT BGS) – FOURTH QUARTER 2008
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	5
PROJECT NO.	WR0574
DATE:	JANUARY 2009

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q08\Tables & Figures\Figure 5 – PCE in GW–Shallow.dwg 1–07–09

SHOPPING CENTER

COMMERCIAL BUILDING

COMMERCIAL BUILDING

HOPYARD CLEANERS

HOPYARD ROAD

RESIDENTIAL

CORTE MENTE

CORTE LIBRE

B-41
1.5

B-38
<0.5

B-39
NS

MW-4

MIP-2
22

MW-1

MW-3

MIP-5
33

MW-2

B-42
6.8

B-36
28

MW-5
49

B-37
9.0

CPT-1
<0.50

MW-6
<0.50

MW-7
10

CPT-2
2.7

5

?

N

0 60
SCALE IN FEET

LEGEND

MW-5 49	B Zone Monitoring Well Location and PCE Concentration (ug/L) (December 2008)
MW-1	A Zone Monitoring Well Location
CPT-1 <0.50	CPT Groundwater Sampling Location and PCE Concentration (ug/L) (April 2008)
B-37 9.0	Hydropunch/Boring Location and PCE Concentration (ug/L) (March 2007)
MIP-5 33	MIP Groundwater Sample Location and PCE Concentration (ug/L) (January 2006)
5	PCE Concentration Contour in Groundwater (ug/L)
?	Estimated PCE Concentration Contour in Groundwater (ug/L)

Note:
- Concentrations Reported in Micrograms per Liter (ug/L)
- NS = Not Sampled
- 7 will begin in the fourth quarter 2008.
- PDBs Were Deployed at Two Depths in MW-6 and MW-7 During The Fourth Quarter 2008 To Evaluate Stratification in The Wells. The Highest Concentrations Between The Two PDBs Is Shown For Each Well.

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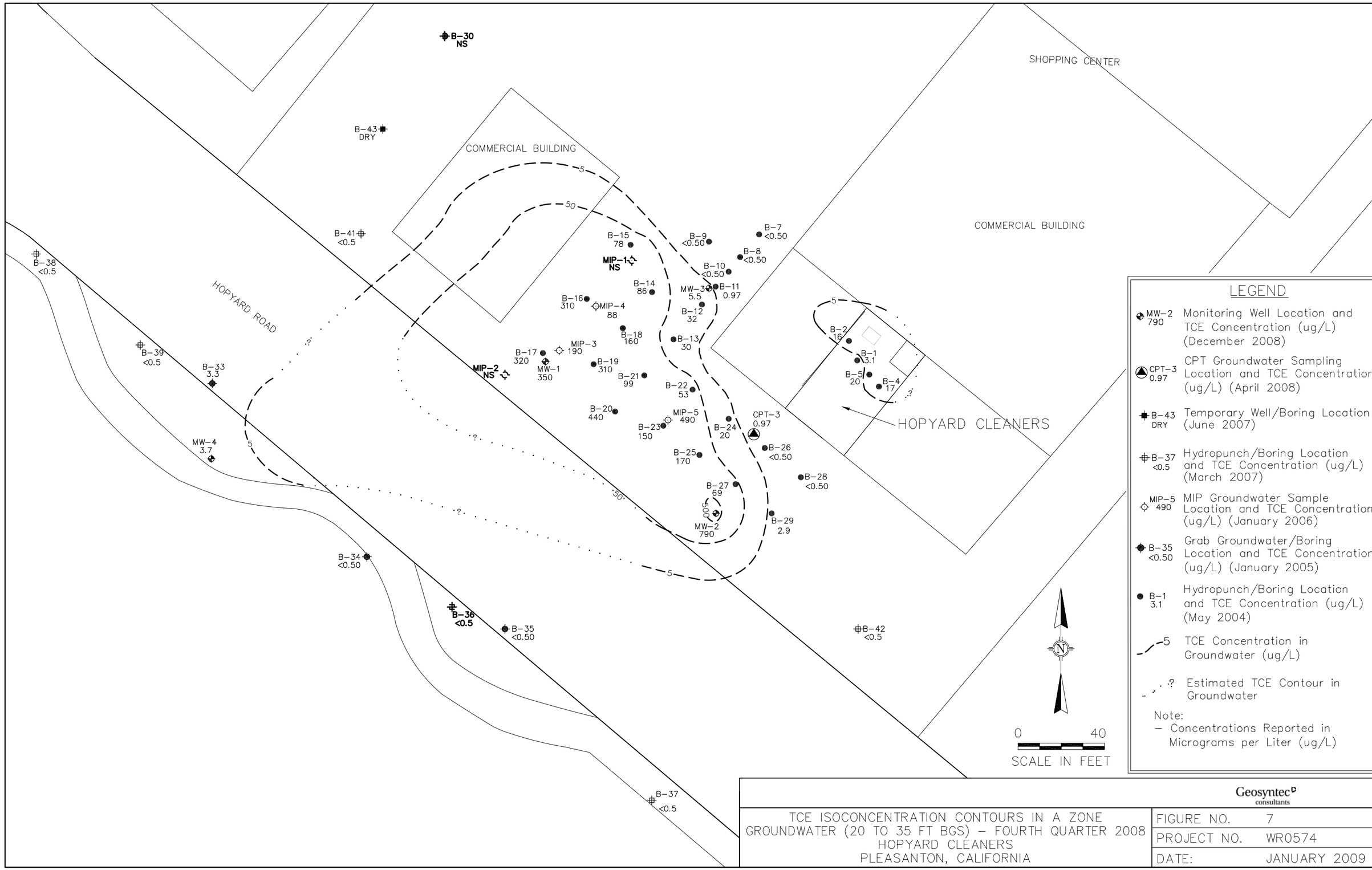
PCE ISOCONCENTRATION CONTOURS IN B ZONE
GROUNDWATER (40 TO 60 FT BGS) – FOURTH QUARTER 2008
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	6
PROJECT NO.	WR0574
DATE:	JANUARY 2009

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q08\Tables & Figures\Figure 6 – PCE in GW Deep.dwg 1-07-09

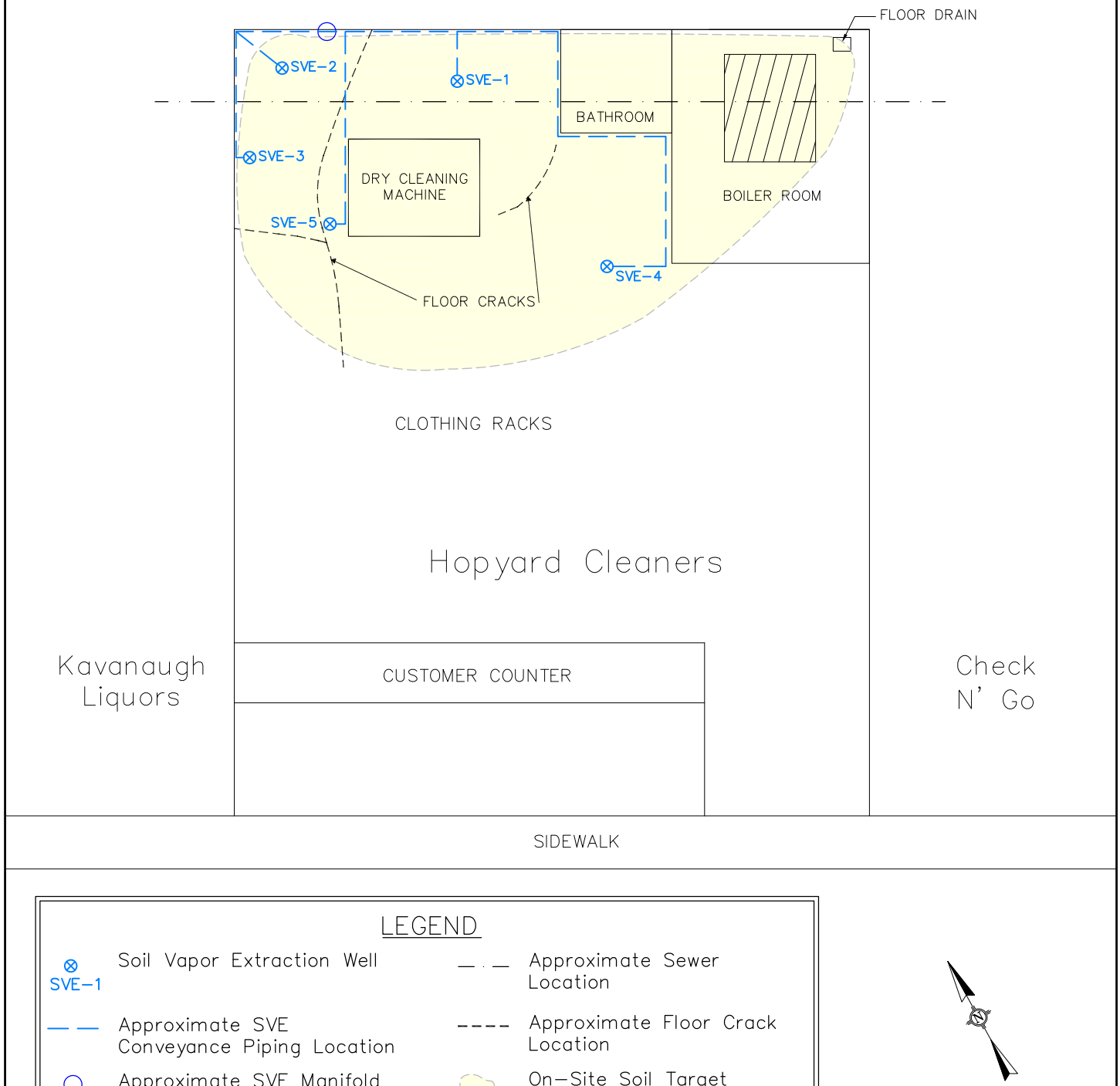


Geosyntec consultants

TCE ISOCONCENTRATION CONTOURS IN A ZONE GROUNDWATER (20 TO 35 FT BGS) – FOURTH QUARTER 2008
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	7
PROJECT NO.	WR0574
DATE:	JANUARY 2009

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q08\Tables & Figures\Figure 7 – TCE in GW–Shallow.dwg 1–07–09



LEGEND

- SVE-1 — Soil Vapor Extraction Well
- Approximate SVE Conveyance Piping Location
- Approximate SVE Manifold Location
- Approximate Sewer Location
- Approximate Floor Crack Location
- On-Site Soil Target Remedial Area

0 4 8

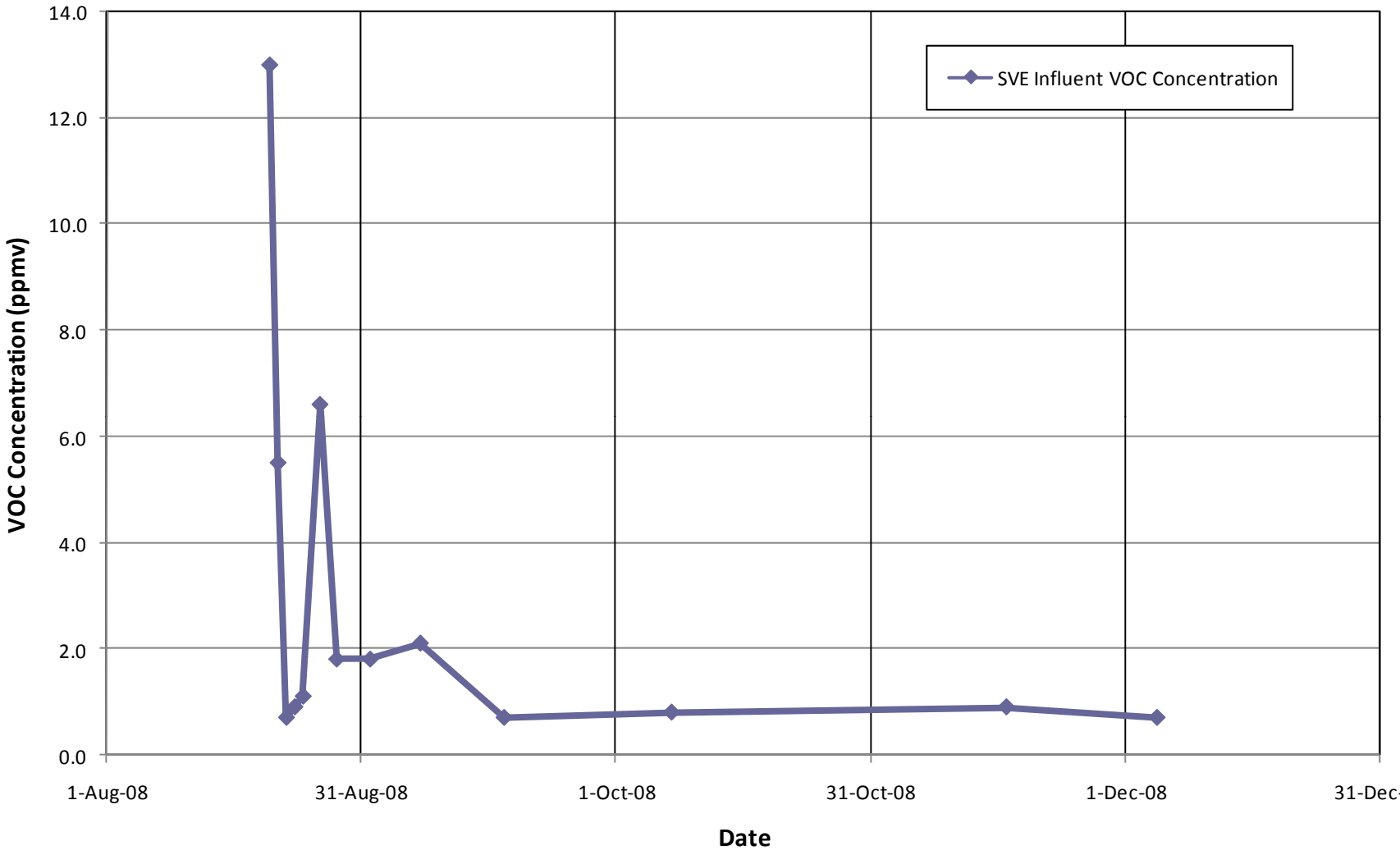
APPROX. SCALE IN FEET

Geosyntec consultants

SOIL VAPOR EXTRACTION WELL LOCATIONS
AND PIPING LAYOUT
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	8
PROJECT NO.	WR0574
DATE:	JANUARY 2009

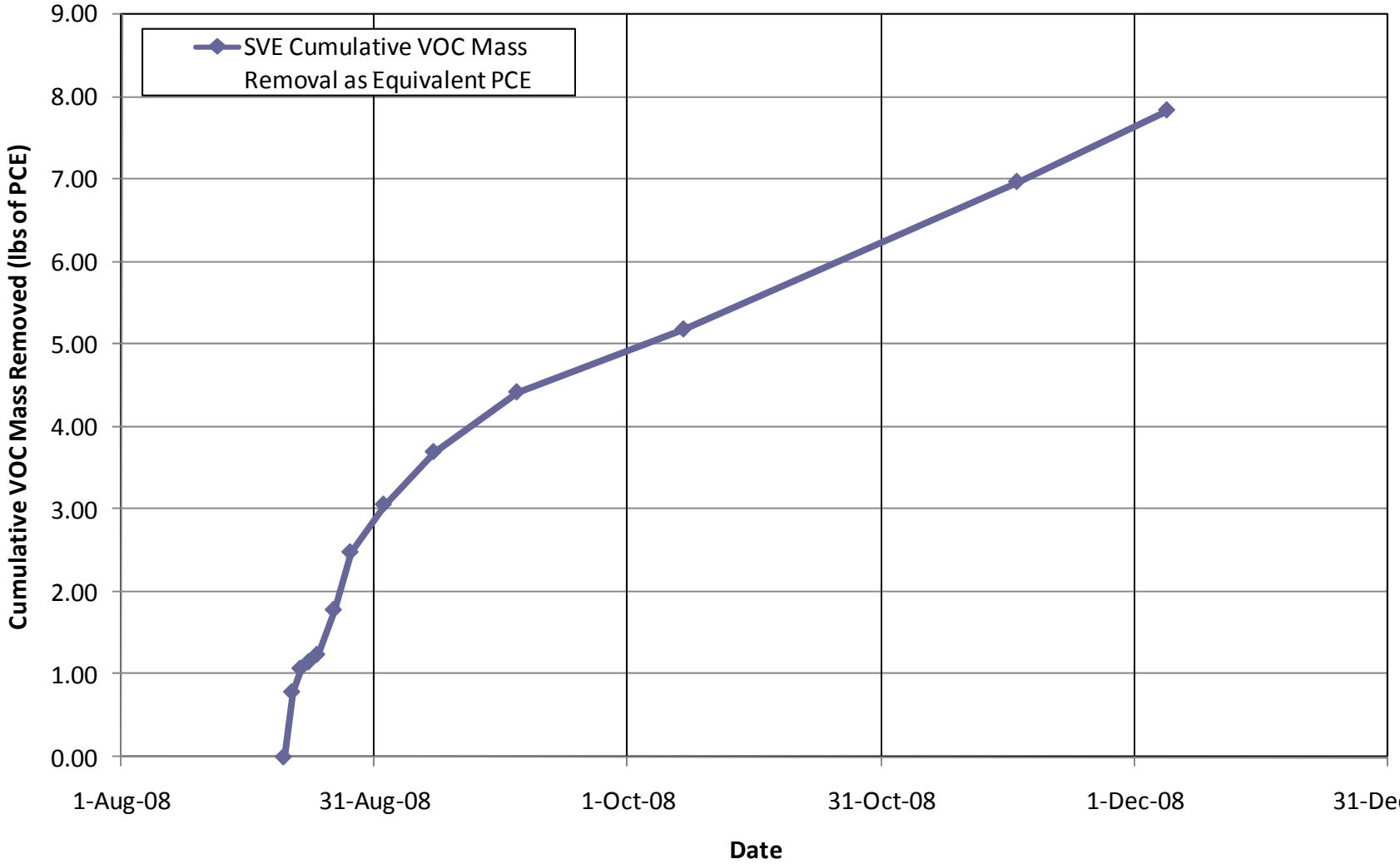
P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\4Q08\Tables & Figures\Fgure 8 - SWE Well Loc.dwg 1-29-09



SVE Influent Concentrations Over Time
Hopyard Cleaners, Pleasanton, California

January 2009	Figure: **9**	Geosyntec consultants

ppmv = parts per million by volume



SVE Cumulative Mass Removal
Hopyard Cleaners, Pleasanton, California

January 2009	Figure: **10**	Geosyntec consultants

lbs = pounds

ATTACHMENT 1
ESS FIELD REPORT

Environmental Sampling Services

December 12, 2008

Ms. Melissa Asher
Senior Staff Engineer
GeoSyntec Consultants
475-14th Street, Suite 450
Oakland, California 94612

SUBJECT: December 2008 Quarterly Groundwater Monitoring Event for Hopyard Cleaners, Pleasanton, California

Dear Ms. Asher,

Please find enclosed the Field Activity Report for the quarterly groundwater monitoring event at 2771 Hopyard Road that occurred December 10, 2008.

If you have any questions or concerns regarding this Field Activity Report, please do not hesitate to call me.

Sincerely,
Environmental Sampling Services, LLC

Jacqueline Lee
Manager

Enclosure

6680 Alhambra Ave., #102 • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

FIELD ACTIVITY REPORT
FOR

DECEMBER 2008
QUARTER GROUNDWATER
MONITORING EVENT

HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA

Prepared for: GeoSyntec Consultants
475-14th Street, Suite 450
Oakland, California 94612

Date Prepared: December 12, 2008

Environmental
Sampling Services

FIELD ACTIVITY REPORT
FOR

DECEMBER 2008
QUARTERLY GROUNDWATER
MONITORING EVENT

HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA

Task: Quarterly Groundwater Sampling Event
ESS Personnel: Jacqueline Lee
Date of Activities: December 10, 2008

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.

Groundwater Level Measurements

Depth to groundwater for five monitoring wells were measured and recorded following atmospheric equilibration of approximately thirty minutes. All readings were performed with a Solinst® Water Level Meter, Serial Number 49914, and referenced to the surveyor's mark or north rim 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.

Organic vapor readings were not required.

Passive Diffusion Bag Sampling

Groundwater samples for Volatile Organic analyses were obtained from each Passive Diffusion Bag Sampler (PDBS). Volatile Organic samples were contained in 40-ml, clear glass, VOAs preserved with hydrochloric acid.

All sample labels were completed with waterproof ink and affixed to sample containers. All sample containers were wiped dry, sealed in Ziploc® bags, and placed a chilled cooler for storage and shipment to the laboratory.

Following completion of low-flow groundwater sampling, a new Passive Diffusion Bag was installed in wells MW-1 through MW-5.

Laboratory

TestAmerica of Pleasanton, California provided Trip Blank, sample containers with appropriate preservative, and conducted all laboratory analyses.

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

Environmental
Sampling Services

Sample Containers /Sample Handling

Each VOC sample set was contained in two or three, 40-ml VOA clear glass containers preserved with Hydrochloric Acid.

All samples were placed in the cooler containing the Trip Blank for storage and transportation.

Quality Assurance /Quality Control Samples

All QA/QC samples were submitted to TestAmerica for analysis.

Trip Blank
One Trip Blank set, labeled Trip Blank, was stored in a chilled cooler throughout the sampling event and submitted for analysis.

Duplicate
One blind duplicate was collected from MW-2 and labeled "MW-DUP @ 14:10". Each VOA duplicate sample container was collected in immediate succession by alternating between each VOA primary sample container. A total of three VOAs were collected from MW-2. One VOA container was submitted as the blind duplicate.

No other QA/QC samples were requested.

Chain of Custody (COC) Form

Standard chain of custody procedures were used to documentation purposes. The COC included: sampler's name and signature, sample identification, sample date and time, and analysis request section. Electronic Data Format (EDF) and standard turnaround time was requested.

Shipment of Samples

All groundwater samples were relinquished directly to TestAmerica December 10, 2008.

Storage of Investigative Derived Wastewater (IDW)

Approximately 4 gallons of purged groundwater and decontamination water generated from this sampling event were stored in one of the three empty 55-gallon drums. It was labeled and is stored inside the treatment system enclosure. The treatment enclosure was secured upon completion of task.

Comments

Two new and unused PDBs for MW-6 and MW-7 and nylon ties were sealed in a cardboard box and placed in the plastic box kept stored inside the treatment system enclosure.

All work was performed in accordance with Geosyntec's directive for Hopyard Cleaners, dated November 18, 2008 and subsequent directives.
Environmental Sampling Services, LLC

Jacqueline Lee
Manager

Attachments:
Table 1: Summary of Groundwater Monitoring Event
Water Sample Log Sheet
Chain of Custody

Environmental Sampling Services

Table 1: December 2008 Quarterly Groundwater Monitoring Event
Project Name: Hopyard Cleaners
Project Location: 2771 Hopyard Road, Pleasanton, California

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	12/10/2008	12:34	16.78	30.27	12/10/2008	13:45	None	NA
MW-2	12/10/2008	12:32	16.24	30.31	12/10/2008	14:05	Duplicate	MW-DUP
MW-3	12/10/2008	12:30	17.17	30.29	12/10/2008	13:55	None	NA
MW-4	12/10/2008	12:03	18.41	34.56	12/10/2008	12:05	None	NA
MW-5	12/10/2008	12:15	33.67	59.96	12/10/2008	12:20	None	NA
MW-6 PDB-S	12/10/2008	12:42	31.14	NM	12/10/2008	13:25	None	NA
MW-6 PDB-D	12/10/2008	12:42	31.14	NM	12/10/2008	13:35	None	NA
MW-7 PDB-S	12/10/2008	12:49	31.21	NM	12/10/2008	13:00	None	NA
MW-7 PDB-D	12/10/2008	12:49	31.21	NM	12/10/2008	13:10	None	NA

Legend:

TOC = Top of Well Casing
NA = Not Applicable
NM = Not Measured, PDBs in well

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-1** DATE: 12/10/08

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Client: Geosyntec Cons. Lab: TestAmerica Weather Conditions: Sunny
Well Description: (2") 3.5" 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 P288
Observations / Comments: _____ Screen Interval: 20' to 30'
Purge Method: (NA) Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic 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
Sampling Method: Passive Disposable Sampler Bag
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet 49914 gw 12/10/08
Method to Measure Water Level: Slope/(Solinst) Indicator Serial No.: 21758 / ~~25742~~ P.I.D. Reading: NA ppm
Water Level at Start (DTW): 16.78 (BTOC) Water Level Prior To / After Sampling: NA (BTOC)
TD = 30.27' - 16.78 (DTW) = 13.49 (ft.of water) x "K" = 2.19 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance µS +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
		Initial								
		0.5								
		1.0								
		1.5								
		2.0								
		2.5								
		3.0								
		3.5								
		4.0								

Total Discharge: 0 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 12/10/08 @ 13:45 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: None @ — Duplicate MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: _____

Recorded by: Stephen Penman / (Jacqueline Lee) Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: **MW-2** DATE: 12/10/08

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Client: Geosyntec Cons. Lab: TestAmerica Weather Conditions: Sunny
Well Description: (2") 3.5" 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 P288
Observations / Comments: _____ Screen Interval: 20' to 30'
Purge Method: (NA) Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic 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
Sampling Method: Passive Disposable Sampler Bag
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope/(Solinst) Indicator Serial No.: 21758 / ~~25742~~ 4991492 12/10/08 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 16.24 (BTOC) Water Level Prior To / After Sampling: NA (BTOC)
TD = 30.31' - 16.24 (DTW) = 14.07 (ft.of water) x "K" = 2.29 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance µS +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
		Initial								
		0.5								
		1.0								
		1.5								
		2.0								
		2.5								
		3.0								
		3.5								
		4.0								

Total Discharge: 0 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 12/10/08 @ 14:05 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: MW-DUP @ 14:10 (Duplicate) MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: Only able to collect 3 VOAs total; submitting 1 VOA for Duplicate

Recorded by: Stephen Penman (Jacqueline Lee) Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: **MW-3** DATE: 12/10/08

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Client: Geosyntec Cons. Lab: TestAmerica Weather Conditions: Sunny
Well Description: (2") 3.5" 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 P288
Observations / Comments: _____ Screen Interval: 20' to 30'
Purge Method: (NA) Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic 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
Sampling Method: Passive Disposable Sampler Bag
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope/(Solinst) Indicator Serial No.: 21758 / ~~25742~~ 49914 on 12/10/08 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 17.17 (BTOC) Water Level Prior To / After Sampling: NA (BTOC)
TD = 30.29' - 17.17 (DTW) = 13.12 (ft.of water) x "K" = 2.13 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (ºC)	Specific Conductance µS +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
		Initial								
		0.5								
		1.0								
		1.5								
		2.0								
		2.5								
		3.0								
		3.5								
		4.0								

Total Discharge: _____ Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 12/10/08 @ 13:55 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: None @ — Duplicate MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: _____

Recorded by: Stephen Penman / (Jacqueline Lee) Signature: _____ Page 1 of 1

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: **MW-4** DATE: 12/10/08

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Client: Geosyntec Cons. Lab: TestAmerica Weather Conditions: Sunny
Well Description: (2") 3.5" 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 P288
Observations / Comments: water inside monument Screen Interval: 20' to 30'
Purge Method: NA Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic Pump Other: PDSB
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)
Sampling Method: (Passive Disposable Sampler Bag)
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope/(Solinst) Indicator Serial No.: 21758 / ~~25742~~ 49914 gw 12/10/08 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 18.14 @ 12:03 (BTOC) Water Level Prior To / After Sampling: NA (BTOC)
TD = 34.56' - 18.14 (DTW) = 16.42 (ft.of water) x "K" = 2.67 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (ºC)	Specific Conductance µS +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
		Initial								
		0.5								
		1.0								
		1.5								
		2.0								
		2.5								
		3.0								
		3.5								
		4.0								

Total Discharge: 0 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 12/10/08 @ 12:05 12:05 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: None @ — Duplicate MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: _____

Recorded by: Stephen Penman / (Jacqueline Lee) Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: **MW-5** DATE: 12/10/08

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Client: Geosyntec Cons. Lab: TestAmerica Weather Conditions: Sunny
Well Description: (2") 3.5" 4" 5" 6" Other:_____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? (Yes) / No Bolt Size: 15/16" Type of lock / Lock number: Master
Observations / Comments: _____ Screen Interval: _____
Purge Method: (NA) Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic 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
Sampling Method: Passive Disposable Sampler Bag
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope (Solinst) Indicator Serial No.: 21758 / ~~25742~~ 49914 JW 12/10/08 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 33.67 @ 12:15 (BTOC) Water Level Prior To / After Sampling: NA (BTOC)
TD = 59.96' - 33.67 (DTW) = 26.29 (ft.of water) x "K" = 4.28 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (ºC)	Specific Conductance µS +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
		Initial								
		0.5								
		1.0								
		1.5								
		2.0								
		2.5								
		3.0								
		3.5								
		4.0								

Total Discharge: 0 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 12/10/08 @ ~~13:45~~ 12:20 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: None @ — Duplicate MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: _____

Recorded by: Stephen Penman / (Jacqueline Lee) Signature: _____ Page 1 of 1

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: **MW-6** DATE: 12/10/08

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Client: Geosyntec Cons. Lab: TestAmerica Weather Conditions: Sunny
Well Description: (2") 3.5" 4" 5" 6" Other:_____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? Yes / No Bolt Size: 9/16" Type of lock / Lock number: Dolphin
Observations / Comments: Under Press. during Initial opening. Screen Interval: _____
Purge Method: (NA) Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic 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
Sampling Method: Passive Disposable Sampler Bag
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet 9v 12/10/08
Method to Measure Water Level: Slope/(Solinst) Indicator Serial No.: 21758 / ~~25742~~ 3199499 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 31.14 (BTOC) Water Level Prior To / After Sampling: NA (BTOC)
TD = _____' - 31.14 (DTW) = _____ (ft.of water) x "K" = _____ (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (ºC)	Specific Conductance µS +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
		Initial								
		0.5								
		1.0								
		1.5								
		2.0								
		2.5								
		3.0								
		3.5								
		4.0								

Total Discharge: _____ Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 12/10/08 @ 13:25+13:35 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: None @ 13:25+e 13:35 (PDB-D)e.p Duplicate MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: Didn't take TD readings, PDBs in well.
Sample ID: MW-6 PDB S & MW-6 PDB D.

Recorded by: Stephen Penman / (Jacqueline Lee) Signature: JL

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Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: **MW-7** DATE: 12/10/08

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Client: Geosyntec Cons. Lab: TestAmerica Weather Conditions: SUNNY
Well Description: (2") 3.5" 4" 5" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? (Yes) / No Bolt Size: 1/4" 11/16" Type of lock / Lock number: Dolphin
Observations / Comments: _____ Screen Interval: _____
Purge Method: (NA) Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic 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
Sampling Method: Passive Disposable Sampler Bag
YSI Muti-Parameter Meter/Probe Serial No.: 556 MPS - 05F1258AH / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope/Solinst Indicator Serial No.: 21758 / ~~25742~~ 49914 on 12/10/08 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 31.21 (BTOC) Water Level Prior To / After Sampling: NA (BTOC)
TD = _____ ' - 31.21 (DTW) = _____ (ft.of water) x "K" = _____ (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance µS +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
		Initial								
		0.5								
		1.0								
		1.5								
		2.0								
		2.5								
		3.0								
		3.5								
		4.0								

Total Discharge: _____ Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 12/10/08 @ 13:00 & 13:10 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: None @ — Duplicate MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: Didn't take TD reading; PDBs in well.
Sample ID: MW-7 PDB S & MW-7 PDB D.
@13:00 ↵ Lge 13:10
Recorded by: Stephen Penman / (Jacqueline Lee) Signature: JL Page 1 of 1

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Phone: (925) 484-1919 ● Fax: (925) 600-3002
Email: sflogin@stl-inc.com

Reference #: _____

Date Dec. 10, 2008 Page 1 of 2

Report To

Attn: Melissa Asher
Company: Geosyntec Consultants
Address: 475 - 14th St. Suite 400, Oakland 94612
Phone: (510) 836-3034 Email:
Bill To: same
Sampled By: ESS (J. Lee)
Attn: .
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	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 Oxyenates ☐ 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 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Low Level Metals by EPA 200.8/6020 (ICP-MS): ___	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4			
Trip Blank	12/10/08	11:15	W	HCl						X															
MW-4		12:05	WG	HCl						X															
MW-5		12:20	WG	HCl						X															
MW-7-PDB-S		13:00	WG	HCl						X															
MW-7-PDB-D		13:10	WG	HCl						X															
MW-6-PDB-S		13:25	WG	HCl						X															
MW-6-PDB-D		13:35	WG	HCl						X															
MW-1		13:45	WG	HCl						X															
MW-3		13:55	WG	HCl						X															
MW-2		14:05	WG	HCl						X															

Project Info.

Project Name: Hopyard
Project#: WR0574
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 3.0 °C
Conforms to record:

TAT: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID _____

Special Instructions / Comments:

EDF Please

See Terms and Conditions on reverse

*TestAmerica SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 15:00	Signature: Time:	Signature: Time:
Printed Name: Jacqueline Lee Date: 12/10/08	Printed Name: Date:	Printed Name: Date:
Company: Env. Sampling Services, LLC	Company:	Company:
1) Received by:	**2) Received by:**	**3) Received by:**
Signature: [signature] Time: 15:00	Signature: Time:	Signature: Time:
Printed Name: T Bullock Date: 12/10/08	Printed Name: Date:	Printed Name: Date:
Company: Test America	Company:	Company:

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Phone: (925) 484-1919 • Fax: (925) 600-3002
Email: sflogin@stl-inc.com

Reference #: _____

Date Dec. 10, 2008 Page 2 of 2

Report To

Attn: Melissa Asher
Company: GeoSyntec Consultants
Address: 475-14th st. suite 400 Oakland, CA 94612
Phone: (510) 836-3034 Email:
Bill To: Same
Sampled By: ESS (J. Lee)
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Pres.	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 Oxyenates ☐ 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 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Low Level Metals by EPA 200.8/6020 (ICP-MS): ___	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions : ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4			Temperature Check
MW-DUP	12/10/08	14:10	WG	HCl						X															
Temp. Blank	—	—	W	None																					

9K 12/10/08

X

Project Info.

Project Name: Hopyard
Project#: WR0574
PO#:
Credit Card#:

TAT: 5 Day | 72h | 48h | 24h | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID _____

Special Instructions / Comments:

EDF Please

See Terms and Conditions on reverse

*TestAmerica SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:

Relinquished / Received

	1)	2)	3)
Relinquished by:	Signature	Signature	Signature
	Time: 15:00	Time:	Time:
	Printed Name: Jacqueline Lee	Printed Name:	Printed Name:
	Date: 12/10/08	Date:	Date:
	Company: Env. Sampling Services, LLC	Company:	Company:
Received by:	Signature	Signature	Signature
	Time: 15:00	Time:	Time:
	Printed Name: T Bulloch	Printed Name:	Printed Name:
	Date: 12/10/08	Date:	Date:
	Company: TestAmerica	Company:	Company:

ATTACHMENT 2
LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

Job Number: 720-17258-1

Job Description: Hopyard Cleaners

For:
Geosyntec Consultants, Inc..
475 14th Street, Suite 450
Oakland, CA 94612

Attention: Ms. Melissa Asher

Approved for release.
Melissa Brewer
Project Manager I
12/17/2008 12:55 PM

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/17/2008

cc: Ms. Angela Liang

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
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Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-17258-2	**MW-4**				
cis-1,2-Dichloroethene		4.0	0.50	ug/L	8260B
Trichloroethene		3.7	0.50	ug/L	8260B
720-17258-3	**MW-5**				
Tetrachloroethene		49	0.50	ug/L	8260B
720-17258-4	**MW-7-PDB-S**				
Tetrachloroethene		9.8	0.50	ug/L	8260B
720-17258-5	**MW-7-PDB-D**				
Tetrachloroethene		10	0.50	ug/L	8260B
720-17258-8	**MW-1**				
cis-1,2-Dichloroethene		250	20	ug/L	8260B
Tetrachloroethene		1900	20	ug/L	8260B
Trichloroethene		350	20	ug/L	8260B
720-17258-9	**MW-3**				
cis-1,2-Dichloroethene		5.6	0.50	ug/L	8260B
Tetrachloroethene		60	0.50	ug/L	8260B
Trichloroethene		5.5	0.50	ug/L	8260B
720-17258-10	**MW-2**				
cis-1,2-Dichloroethene		840	100	ug/L	8260B
Tetrachloroethene		15000	100	ug/L	8260B
Trichloroethene		790	100	ug/L	8260B
720-17258-11	**MW-DUP**				
cis-1,2-Dichloroethene		770	100	ug/L	8260B
Tetrachloroethene		15000	100	ug/L	8260B
Trichloroethene		740	100	ug/L	8260B

METHOD SUMMARY

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

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

Lab References:

TAL SF = TestAmerica 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, Inc.. Job Number: 720-17258-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17258-1TB	TRIP BLANK	Water	12/10/2008 1115	12/10/2008 1500
720-17258-2	MW-4	Water	12/10/2008 1205	12/10/2008 1500
720-17258-3	MW-5	Water	12/10/2008 1220	12/10/2008 1500
720-17258-4	MW-7-PDB-S	Water	12/10/2008 1300	12/10/2008 1500
720-17258-5	MW-7-PDB-D	Water	12/10/2008 1310	12/10/2008 1500
720-17258-6	MW-6-PDB-S	Water	12/10/2008 1325	12/10/2008 1500
720-17258-7	MW-6-PDB-D	Water	12/10/2008 1335	12/10/2008 1500
720-17258-8	MW-1	Water	12/10/2008 1345	12/10/2008 1500
720-17258-9	MW-3	Water	12/10/2008 1355	12/10/2008 1500
720-17258-10	MW-2	Water	12/10/2008 1405	12/10/2008 1500
720-17258-11	MW-DUP	Water	12/10/2008 1410	12/10/2008 1500

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-17258-1TB
Client Matrix: Water

Date Sampled: 12/10/2008 1115
Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/11/2008 1613
Date Prepared: 12/11/2008 1613

Analysis Batch: 720-44880

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121108\SA-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

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
2-Butanone (MEK)	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
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 720-17258-1TB
Client Matrix: Water

Date Sampled: 12/10/2008 1115
Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/11/2008 1613
Date Prepared: 12/11/2008 1613

Analysis Batch: 720-44880

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121108\SA-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	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	101	74 - 131
1,2-Dichloroethane-d4 (Surr)	102	76 - 132
Toluene-d8 (Surr)	104	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-4

Lab Sample ID: 720-17258-2 Date Sampled: 12/10/2008 1205
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44880 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121108\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/11/2008 2005 Final Weight/Volume: 40 mL
Date Prepared: 12/11/2008 2005

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
2-Butanone (MEK)	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	4.0		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
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-4

Lab Sample ID: 720-17258-2 Date Sampled: 12/10/2008 1205
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44880 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121108\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/11/2008 2005 Final Weight/Volume: 40 mL
Date Prepared: 12/11/2008 2005

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	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	3.7		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	99	74 - 131
1,2-Dichloroethane-d4 (Surr)	102	76 - 132
Toluene-d8 (Surr)	102	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-5

Lab Sample ID: 720-17258-3 Date Sampled: 12/10/2008 1220
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1644 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1644

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
2-Butanone (MEK)	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
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-5

Lab Sample ID: 720-17258-3 Date Sampled: 12/10/2008 1220
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1644 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1644

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	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	49		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	97	74 - 131
1,2-Dichloroethane-d4 (Surr)	104	76 - 132
Toluene-d8 (Surr)	99	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-7-PDB-S

Lab Sample ID: 720-17258-4 Date Sampled: 12/10/2008 1300
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1717 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1717

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
2-Butanone (MEK)	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
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-7-PDB-S

Lab Sample ID: 720-17258-4 Date Sampled: 12/10/2008 1300
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1717 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1717

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	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	9.8		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	101	74 - 131
1,2-Dichloroethane-d4 (Surr)	108	76 - 132
Toluene-d8 (Surr)	107	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-7-PDB-D

Lab Sample ID: 720-17258-5 Date Sampled: 12/10/2008 1310
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1751 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1751

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
2-Butanone (MEK)	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
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-7-PDB-D

Lab Sample ID: 720-17258-5 Date Sampled: 12/10/2008 1310
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1751 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1751

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	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	10		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	103	74 - 131
1,2-Dichloroethane-d4 (Surr)	105	76 - 132
Toluene-d8 (Surr)	106	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-6-PDB-S

Lab Sample ID: 720-17258-6 Date Sampled: 12/10/2008 1325
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1823 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1823

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
2-Butanone (MEK)	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
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-6-PDB-S

Lab Sample ID: 720-17258-6 Date Sampled: 12/10/2008 1325
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1823 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1823

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	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	106	74 - 131
1,2-Dichloroethane-d4 (Surr)	100	76 - 132
Toluene-d8 (Surr)	103	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-6-PDB-D

Lab Sample ID: 720-17258-7 Date Sampled: 12/10/2008 1335
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1856 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1856

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
2-Butanone (MEK)	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
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-6-PDB-D

Lab Sample ID: 720-17258-7 Date Sampled: 12/10/2008 1335
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1856 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1856

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	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	105	74 - 131
1,2-Dichloroethane-d4 (Surr)	100	76 - 132
Toluene-d8 (Surr)	102	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-1

Lab Sample ID: 720-17258-8 Date Sampled: 12/10/2008 1345
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 40 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1144 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1144

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		200
Acetone	ND		2000
Benzene	ND		20
Dichlorobromomethane	ND		20
Bromobenzene	ND		40
Chlorobromomethane	ND		40
Bromoform	ND		40
Bromomethane	ND		40
2-Butanone (MEK)	ND		2000
n-Butylbenzene	ND		40
sec-Butylbenzene	ND		40
tert-Butylbenzene	ND		40
Carbon disulfide	ND		200
Carbon tetrachloride	ND		20
Chlorobenzene	ND		20
Chloroethane	ND		40
Chloroform	ND		40
Chloromethane	ND		40
2-Chlorotoluene	ND		20
4-Chlorotoluene	ND		20
Chlorodibromomethane	ND		20
1,2-Dichlorobenzene	ND		20
1,3-Dichlorobenzene	ND		20
1,4-Dichlorobenzene	ND		20
1,3-Dichloropropane	ND		40
1,1-Dichloropropene	ND		20
1,2-Dibromo-3-Chloropropane	ND		40
Ethylene Dibromide	ND		20
Dibromomethane	ND		20
Dichlorodifluoromethane	ND		20
1,1-Dichloroethane	ND		20
1,2-Dichloroethane	ND		20
1,1-Dichloroethene	ND		20
cis-1,2-Dichloroethene	250		20
trans-1,2-Dichloroethene	ND		20
1,2-Dichloropropane	ND		20
cis-1,3-Dichloropropene	ND		20
trans-1,3-Dichloropropene	ND		20
Ethylbenzene	ND		20
Hexachlorobutadiene	ND		40
2-Hexanone	ND		2000
Isopropylbenzene	ND		20
4-Isopropyltoluene	ND		40
Methylene Chloride	ND		200

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-1

Lab Sample ID: 720-17258-8 Date Sampled: 12/10/2008 1345
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 40 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1144 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1144

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		2000
Naphthalene	ND		40
N-Propylbenzene	ND		40
Styrene	ND		20
1,1,1,2-Tetrachloroethane	ND		20
1,1,2,2-Tetrachloroethane	ND		20
Tetrachloroethene	1900		20
Toluene	ND		20
1,2,3-Trichlorobenzene	ND		40
1,2,4-Trichlorobenzene	ND		40
1,1,1-Trichloroethane	ND		20
1,1,2-Trichloroethane	ND		20
Trichloroethene	350		20
Trichlorofluoromethane	ND		40
1,2,3-Trichloropropane	ND		20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20
1,2,4-Trimethylbenzene	ND		20
1,3,5-Trimethylbenzene	ND		20
Vinyl acetate	ND		2000
Vinyl chloride	ND		20
Xylenes, Total	ND		40
2,2-Dichloropropane	ND		20

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 131
1,2-Dichloroethane-d4 (Surr)	106	76 - 132
Toluene-d8 (Surr)	104	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-3

Lab Sample ID: 720-17258-9 Date Sampled: 12/10/2008 1355
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1251 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1251

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
2-Butanone (MEK)	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	5.6		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
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-3

Lab Sample ID: 720-17258-9 Date Sampled: 12/10/2008 1355
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1251 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1251

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	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	60		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	5.5		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	101	74 - 131
1,2-Dichloroethane-d4 (Surr)	103	76 - 132
Toluene-d8 (Surr)	105	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-2

Lab Sample ID: 720-17258-10 Date Sampled: 12/10/2008 1405
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 200 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1217 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1217

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		1000
Acetone	ND		10000
Benzene	ND		100
Dichlorobromomethane	ND		100
Bromobenzene	ND		200
Chlorobromomethane	ND		200
Bromoform	ND		200
Bromomethane	ND		200
2-Butanone (MEK)	ND		10000
n-Butylbenzene	ND		200
sec-Butylbenzene	ND		200
tert-Butylbenzene	ND		200
Carbon disulfide	ND		1000
Carbon tetrachloride	ND		100
Chlorobenzene	ND		100
Chloroethane	ND		200
Chloroform	ND		200
Chloromethane	ND		200
2-Chlorotoluene	ND		100
4-Chlorotoluene	ND		100
Chlorodibromomethane	ND		100
1,2-Dichlorobenzene	ND		100
1,3-Dichlorobenzene	ND		100
1,4-Dichlorobenzene	ND		100
1,3-Dichloropropane	ND		200
1,1-Dichloropropene	ND		100
1,2-Dibromo-3-Chloropropane	ND		200
Ethylene Dibromide	ND		100
Dibromomethane	ND		100
Dichlorodifluoromethane	ND		100
1,1-Dichloroethane	ND		100
1,2-Dichloroethane	ND		100
1,1-Dichloroethene	ND		100
cis-1,2-Dichloroethene	840		100
trans-1,2-Dichloroethene	ND		100
1,2-Dichloropropane	ND		100
cis-1,3-Dichloropropene	ND		100
trans-1,3-Dichloropropene	ND		100
Ethylbenzene	ND		100
Hexachlorobutadiene	ND		200
2-Hexanone	ND		10000
Isopropylbenzene	ND		100
4-Isopropyltoluene	ND		200
Methylene Chloride	ND		1000

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-2

Lab Sample ID: 720-17258-10 Date Sampled: 12/10/2008 1405
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 200 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1217 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1217

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		10000
Naphthalene	ND		200
N-Propylbenzene	ND		200
Styrene	ND		100
1,1,1,2-Tetrachloroethane	ND		100
1,1,2,2-Tetrachloroethane	ND		100
Tetrachloroethene	15000		100
Toluene	ND		100
1,2,3-Trichlorobenzene	ND		200
1,2,4-Trichlorobenzene	ND		200
1,1,1-Trichloroethane	ND		100
1,1,2-Trichloroethane	ND		100
Trichloroethene	790		100
Trichlorofluoromethane	ND		200
1,2,3-Trichloropropane	ND		100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100
1,2,4-Trimethylbenzene	ND		100
1,3,5-Trimethylbenzene	ND		100
Vinyl acetate	ND		10000
Vinyl chloride	ND		100
Xylenes, Total	ND		200
2,2-Dichloropropane	ND		100

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 131
1,2-Dichloroethane-d4 (Surr)	102	76 - 132
Toluene-d8 (Surr)	103	82 - 120

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-DUP

Lab Sample ID: 720-17258-11 Date Sampled: 12/10/2008 1410
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 200 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1324 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1324

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		1000
Acetone	ND		10000
Benzene	ND		100
Dichlorobromomethane	ND		100
Bromobenzene	ND		200
Chlorobromomethane	ND		200
Bromoform	ND		200
Bromomethane	ND		200
2-Butanone (MEK)	ND		10000
n-Butylbenzene	ND		200
sec-Butylbenzene	ND		200
tert-Butylbenzene	ND		200
Carbon disulfide	ND		1000
Carbon tetrachloride	ND		100
Chlorobenzene	ND		100
Chloroethane	ND		200
Chloroform	ND		200
Chloromethane	ND		200
2-Chlorotoluene	ND		100
4-Chlorotoluene	ND		100
Chlorodibromomethane	ND		100
1,2-Dichlorobenzene	ND		100
1,3-Dichlorobenzene	ND		100
1,4-Dichlorobenzene	ND		100
1,3-Dichloropropane	ND		200
1,1-Dichloropropene	ND		100
1,2-Dibromo-3-Chloropropane	ND		200
Ethylene Dibromide	ND		100
Dibromomethane	ND		100
Dichlorodifluoromethane	ND		100
1,1-Dichloroethane	ND		100
1,2-Dichloroethane	ND		100
1,1-Dichloroethene	ND		100
cis-1,2-Dichloroethene	770		100
trans-1,2-Dichloroethene	ND		100
1,2-Dichloropropane	ND		100
cis-1,3-Dichloropropene	ND		100
trans-1,3-Dichloropropene	ND		100
Ethylbenzene	ND		100
Hexachlorobutadiene	ND		200
2-Hexanone	ND		10000
Isopropylbenzene	ND		100
4-Isopropyltoluene	ND		200
Methylene Chloride	ND		1000

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Client Sample ID: MW-DUP

Lab Sample ID: 720-17258-11 Date Sampled: 12/10/2008 1410
Client Matrix: Water Date Received: 12/10/2008 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-44905 Instrument ID: Varian 3900F
Preparation: 5030B Lab File ID: e:\200812\121208\SA-WA
Dilution: 200 Initial Weight/Volume: 40 mL
Date Analyzed: 12/12/2008 1324 Final Weight/Volume: 40 mL
Date Prepared: 12/12/2008 1324

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		10000
Naphthalene	ND		200
N-Propylbenzene	ND		200
Styrene	ND		100
1,1,1,2-Tetrachloroethane	ND		100
1,1,2,2-Tetrachloroethane	ND		100
Tetrachloroethene	15000		100
Toluene	ND		100
1,2,3-Trichlorobenzene	ND		200
1,2,4-Trichlorobenzene	ND		200
1,1,1-Trichloroethane	ND		100
1,1,2-Trichloroethane	ND		100
Trichloroethene	740		100
Trichlorofluoromethane	ND		200
1,2,3-Trichloropropane	ND		100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100
1,2,4-Trimethylbenzene	ND		100
1,3,5-Trimethylbenzene	ND		100
Vinyl acetate	ND		10000
Vinyl chloride	ND		100
Xylenes, Total	ND		200
2,2-Dichloropropane	ND		100

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 131
1,2-Dichloroethane-d4 (Surr)	103	76 - 132
Toluene-d8 (Surr)	103	82 - 120

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-44880					
LCS 720-44880/2	Lab Control Spike	T	Water	8260B	
LCSD 720-44880/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-44880/3	Method Blank	T	Water	8260B	
720-17258-1TB	TRIP BLANK	T	Water	8260B	
720-17258-2	MW-4	T	Water	8260B	
Analysis Batch:720-44905					
LCS 720-44905/2	Lab Control Spike	T	Water	8260B	
LCSD 720-44905/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-44905/3	Method Blank	T	Water	8260B	
720-17258-3	MW-5	T	Water	8260B	
720-17258-4	MW-7-PDB-S	T	Water	8260B	
720-17258-5	MW-7-PDB-D	T	Water	8260B	
720-17258-6	MW-6-PDB-S	T	Water	8260B	
720-17258-7	MW-6-PDB-D	T	Water	8260B	
720-17258-8	MW-1	T	Water	8260B	
720-17258-9	MW-3	T	Water	8260B	
720-17258-9MS	Matrix Spike	T	Water	8260B	
720-17258-9MSD	Matrix Spike Duplicate	T	Water	8260B	
720-17258-10	MW-2	T	Water	8260B	
720-17258-11	MW-DUP	T	Water	8260B	

Report Basis
T = Total

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Method Blank - Batch: 720-44880

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-44880/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2008 1035
Date Prepared: 12/11/2008 1035

Analysis Batch: 720-44880
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121108\MB-WA
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
2-Butanone (MEK)	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
2-Hexanone	ND		50

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

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Method Blank - Batch: 720-44880

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-44880/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2008 1035
Date Prepared: 12/11/2008 1035

Analysis Batch: 720-44880
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121108\MB-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	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	105	74 - 131
1,2-Dichloroethane-d4 (Surr)	97	76 - 132
Toluene-d8 (Surr)	104	82 - 120

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

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-44880

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-44880/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2008 0928
Date Prepared: 12/11/2008 0928

Analysis Batch: 720-44880
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121108\LS-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-44880/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2008 1001
Date Prepared: 12/11/2008 1001

Analysis Batch: 720-44880
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121108\LD-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	97	103	70 - 130	6	20		
Chlorobenzene	106	111	70 - 130	4	20		
1,1-Dichloroethene	91	98	70 - 130	7	20		
Toluene	100	100	70 - 130	0	20		
Trichloroethene	95	98	70 - 130	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	100	99	74 - 131
1,2-Dichloroethane-d4 (Surr)	94	95	76 - 132
Toluene-d8 (Surr)	101	98	82 - 120

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

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Method Blank - Batch: 720-44905

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-44905/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 1038
Date Prepared: 12/12/2008 1038

Analysis Batch: 720-44905
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121208\MB-WA
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
2-Butanone (MEK)	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
2-Hexanone	ND		50

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

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Method Blank - Batch: 720-44905

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-44905/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 1038
Date Prepared: 12/12/2008 1038

Analysis Batch: 720-44905
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121208\MB-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	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	104	74 - 131
1,2-Dichloroethane-d4 (Surr)	103	76 - 132
Toluene-d8 (Surr)	108	82 - 120

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

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-44905

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-44905/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 0932
Date Prepared: 12/12/2008 0932

Analysis Batch: 720-44905
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121208\LS-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-44905/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/12/2008 1005
Date Prepared: 12/12/2008 1005

Analysis Batch: 720-44905
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: e:\200812\121208\LD-WA
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	93	102	70 - 130	9	20		
Chlorobenzene	106	113	70 - 130	6	20		
1,1-Dichloroethene	90	97	70 - 130	8	20		
Toluene	98	105	70 - 130	7	20		
Trichloroethene	90	102	70 - 130	12	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	100	94	74 - 131
1,2-Dichloroethane-d4 (Surr)	95	94	76 - 132
Toluene-d8 (Surr)	101	97	82 - 120

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

Client: Geosyntec Consultants, Inc.. Job Number: 720-17258-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-44905

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-17258-9	Analysis Batch:	720-44905	Instrument ID:	Varian 3900F
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	e:\200812\121208\SA-WA
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	12/12/2008 1537			Final Weight/Volume:	40 mL
Date Prepared:	12/12/2008 1537				

MSD Lab Sample ID:	720-17258-9	Analysis Batch:	720-44905	Instrument ID:	Varian 3900F
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	e:\200812\121208\SA-WA
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	12/12/2008 1611			Final Weight/Volume:	40 mL
Date Prepared:	12/12/2008 1611				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	95	102	70 - 130	8	20		
Chlorobenzene	108	111	70 - 130	3	20		
1,1-Dichloroethene	99	106	70 - 130	6	20		
Toluene	95	101	70 - 130	6	20		
Trichloroethene	96	96	70 - 130	0	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	99	74 - 131
1,2-Dichloroethane-d4 (Surr)	102	101	76 - 132
Toluene-d8 (Surr)	101	96	82 - 120

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

720-17258

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756

Phone: (925) 484-1919 • Fax: (925) 600-3002

Email: sflogin@stl-inc.com

Reference #: 113727

Date Dec. 10, 2008 Page 1 of 2

Report To

Attn: Melissa Asher

Company: Geosyntec Consultants

Address: 475 - 14th St. Suite 400, Oakland 94612

Phone: (510) 836-3034 Email:

Bill To: same

Sampled By: ESS (J. Lee)

Attn: .

Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Pres.	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 ☐ Total (EPA 1664)	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Low Level Metals by EPA 200.8/6020 (ICP-MS): ___	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O) ☐ ☐	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4				N
1. Trip Blank	12/10/08	11:15	W	HCl						X																	
2. MW-4		12:05	WG	HCl						X																	2
3. MW-5		12:20	WG	HCl						X																	3
4. MW-7-PDB-S		13:00	WG	HCl						X																	3
5. MW-7-PDB-D		13:10	WG	HCl						X																	3
6. MW-6-PDB-S		13:25	WG	HCl						X																	3
7. MW-6-PDB-D		13:35	WG	HCl						X																	3
8. MW-1		13:45	WG	HCl						X																	3
9. MW-3		13:55	WG	HCl						X																	3
10. MW-2		14:05	WG	HCl						X																	3
										X																	2

Project Info.

Project Name: Hopyard

Project#: WR0574

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp: 3.0°C

Conforms to record:

TAT: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID ___

Special Instructions / Comments:

EDF Please

See Terms and Conditions on reverse

*TestAmerica SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{12}-C_{28}

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 15:00	Signature: Time:	Signature: Time:
Printed Name: Jacqueline Lee Date: 12/10/08	Printed Name: Date:	Printed Name: Date:
Company: Env. Sampling Services, LLC	Company:	Company:
1) Received by:	**2) Received by:**	**3) Received by:**
Signature: [signature] Time: 15:00	Signature: Time:	Signature: Time:
Printed Name: T Bullock Date: 12/10/08	Printed Name: Date:	Printed Name: Date:
Company: Test America	Company:	Company:

Rev 08/04

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720-17258

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THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002
Email: sflogin@stl-inc.com

Reference #: 113727

Date Dec. 10, 2008 Page 2 of 2

Report To

Attn: Melissa Asher
Company: GeoSyntec Consultants
Address: 475 - 14th St. Suite 400 Oakland, CA 94612
Phone: (510) 836-3034 Email:
Bill To: Same
Sampled By: ESS (J. Lee)
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	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) X 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 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Low Level Metals by EPA 200.8/6020 (ICP-MS):	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4			Temperature Check	N
MW-DUP	12/10/08	14:10	WG	HCl						X																1
Temp. Blank	—	—	W	None																						

9L 12/10/08

X

Project Info.

Project Name: Hopyard
Project#: WR0574
PO#:
Credit Card#:

TAT: 5 Day | 72h | 48h | 24h | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

EDF Please

See Terms and Conditions on reverse

*TestAmerica SF reports 8015M from C_6-C_{24} (industry norm). Default for 8015B is C_{12}-C_{24}

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	15:00		
Printed Name / Date	Jacqueline Lee 12/10/08		
Company	Env. Sampling Services, LLC		

	1) Received by:	2) Received by:	3) Received by:
Signature / Time	15:00		
Printed Name / Date	T Bulloch 12/10/08		
Company	TestAmerica		

Rev 06/04

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12/17/2008

Login Sample Receipt Check List

Client: Geosyntec Consultants, Inc..

Job Number: 720-17258-1

Login Number: 17258
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
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	

AN ENVIRONMENTAL ANALYTICAL LABORATORY

12/19/2008

Ms. Angela Liang
GeoSyntec Consultants
475 14th Street
Suite 400
Oakland CA 94612

Project Name: Hopyard Cleaners
Project #: WR0574

Dear Ms. Angela Liang

The following report includes the data for the above referenced project for sample(s) received on 12/6/2008 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for you air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori
Project Manager

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0812184

Work Order Summary

CLIENT:	Ms. Angela Liang GeoSyntec Consultants 475 14th Street Suite 400 Oakland, CA 94612	**BILL TO:**	Ms. Angela Liang GeoSyntec Consultants 475 14th Street Suite 400 Oakland, CA 94612
PHONE:	510-836-3034	**P.O. #**	WR0574
FAX:	510-836-3036	**PROJECT #**	WR0574 Hopyard Cleaners
DATE RECEIVED:	12/06/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	12/19/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE INFL	Modified TO-15	1.0 "Hg	15 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 12/19/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 0812184

One 1 Liter Summa Canister sample was received on December 06, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE INFL

Lab ID#: 0812184-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.4	1.4	6.9	7.2
Ethanol	5.6	8.2	10	15
Acetone	5.6	9.9	13	23
Carbon Disulfide	1.4	2.5	4.3	7.8
Methylene Chloride	1.4	1.4	4.8	4.9
2-Butanone (Methyl Ethyl Ketone)	1.4	2.5	4.1	7.5
Tetrahydrofuran	1.4	1.4	4.1	4.2
Benzene	1.4	4.5	4.4	14
Trichloroethene	1.4	12	7.5	64
Toluene	1.4	7.6	5.2	29
Tetrachloroethene	1.4	340	9.5	2300

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVE INFL

Lab ID#: 0812184-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5121711**	**Date of Collection: 12/5/08**	
Dil. Factor:	**2.79**	**Date of Analysis: 12/17/08 05:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.4	1.4	6.9	7.2
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	5.6	Not Detected	12	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	1.4	Not Detected	5.4	Not Detected
Chloroethane	1.4	Not Detected	3.7	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.6	8.2	10	15
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.6	9.9	13	23
2-Propanol	5.6	Not Detected	14	Not Detected
Carbon Disulfide	1.4	2.5	4.3	7.8
3-Chloropropene	5.6	Not Detected	17	Not Detected
Methylene Chloride	1.4	1.4	4.8	4.9
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	Not Detected	4.9	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.4	2.5	4.1	7.5
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	1.4	4.1	4.2
Chloroform	1.4	Not Detected	6.8	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.6	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.8	Not Detected
2,2,4-Trimethylpentane	1.4	Not Detected	6.5	Not Detected
Benzene	1.4	4.5	4.4	14
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.7	Not Detected
Trichloroethene	1.4	12	7.5	64
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.6	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.3	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.7	Not Detected
Toluene	1.4	7.6	5.2	29
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVE INFL

Lab ID#: 0812184-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5121711**	**Date of Collection: 12/5/08**	
Dil. Factor:	**2.79**	**Date of Analysis: 12/17/08 05:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.4	Not Detected	7.6	Not Detected
Tetrachloroethene	1.4	340	9.5	2300
2-Hexanone	5.6	Not Detected	23	Not Detected
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.6	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.4	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.4	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.2	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.4	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	41	Not Detected
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0812184-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5121705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/08 11:26 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0812184-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5121705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/08 11:26 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0812184-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5121702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/08 09:09 AM**	

Compound	%Recovery
Freon 12	114
Freon 114	111
Chloromethane	109
Vinyl Chloride	114
1,3-Butadiene	105
Bromomethane	125
Chloroethane	124
Freon 11	108
Ethanol	102
Freon 113	112
1,1-Dichloroethene	111
Acetone	109
2-Propanol	109
Carbon Disulfide	109
3-Chloropropene	107
Methylene Chloride	100
Methyl tert-butyl ether	124
trans-1,2-Dichloroethene	106
Hexane	119
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	122
cis-1,2-Dichloroethene	110
Tetrahydrofuran	110
Chloroform	103
1,1,1-Trichloroethane	110
Cyclohexane	111
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	112
Benzene	97
1,2-Dichloroethane	104
Heptane	108
Trichloroethene	105
1,2-Dichloropropane	106
1,4-Dioxane	101
Bromodichloromethane	111
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	110
Toluene	101
trans-1,3-Dichloropropene	112

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0812184-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5121702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/08 09:09 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	106
Tetrachloroethene	108
2-Hexanone	104
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	105
Chlorobenzene	102
Ethyl Benzene	104
m,p-Xylene	105
o-Xylene	103
Styrene	104
Bromoform	110
Cumene	102
1,1,2,2-Tetrachloroethane	100
Propylbenzene	108
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0812184-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5121703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/08 09:46 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	99
Chloromethane	95
Vinyl Chloride	102
1,3-Butadiene	95
Bromomethane	112
Chloroethane	112
Freon 11	102
Ethanol	113
Freon 113	113
1,1-Dichloroethene	116
Acetone	102
2-Propanol	107
Carbon Disulfide	104
3-Chloropropene	103
Methylene Chloride	106
Methyl tert-butyl ether	116
trans-1,2-Dichloroethene	103
Hexane	109
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	116
cis-1,2-Dichloroethene	106
Tetrahydrofuran	104
Chloroform	99
1,1,1-Trichloroethane	106
Cyclohexane	105
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	106
Benzene	97
1,2-Dichloroethane	105
Heptane	108
Trichloroethene	104
1,2-Dichloropropane	106
1,4-Dioxane	104
Bromodichloromethane	110
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	115
Toluene	107
trans-1,3-Dichloropropene	110

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0812184-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5121703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/17/08 09:46 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	106
Tetrachloroethene	107
2-Hexanone	108
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	100
Chlorobenzene	102
Ethyl Benzene	102
m,p-Xylene	104
o-Xylene	103
Styrene	105
Bromoform	110
Cumene	103
1,1,2,2-Tetrachloroethane	102
Propylbenzene	110
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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Project Manager Angela Liang

Collected by: (Print and Sign) Melissa Asher Melissa Asher

Company Geosyntec Consultants Email masher@geosyntec.com

Address 475 14th St Suite 400 City Oakland State CA Zip 94612

Phone 510-286-2700 Fax 510-286-2666

Project Info:
P.O. # WR0574
Project # WR0574
Project Name Hayward Cleaners

Turn Around Time:
[X] Normal
[ ] Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psig)
01A	SVE INFL	1352	12/5/08	11:15	TO-15	-30	-5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Melissa Asher	12/5/08 14:20	[illegible] AIR	12/6/08 935
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex	na	Cool		Yes No None	0812184

Form 1258 rev.11