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June 30, 2005

Jerry Wickham
Alameda County Health Care Services Agency
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Alameda, CA 94502-6577

Re: Additional Interim Remediation Report
Shell-branded Service Station
285 Hegenberger Road
Oakland, California
SAP Code 135691
Incident No. 98995749
ACHCSA Case # RO-0220

Alameda County
JUL 06 2005
Environmental Health

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Additional Interim Remediation Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Sr. Environmental Engineer

June 30, 2005

Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Additional Interim Remediation Report**
Shell-branded Service Station
285 Hegenberger Road
Oakland, California
Incident #98995749
Cambria Project # 247-0734-007

Alameda County
JUL 06 2005
Environmental Health



Dear Mr. Wickham:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) has prepared this *Additional Interim Remediation Report* for the subject site. This report was prepared to summarize the additional interim remedial activities proposed in Cambria's March 31, 2005 *Interim Remediation Report*.

Presented below is a summary of the site background and the interim remedial activities.

SITE BACKGROUND


Site Description: This operating Shell-branded service station is located at the Hegenberger Road and Leet Drive intersection in Oakland, California (Figures 1 and 2). The surrounding area is of mixed commercial and industrial use. Oakland International Airport is located approximately 1 mile west of the site. The property was purchased prior to 1960, and the service station was built between 1966 and 1967. Prior to 1966, no buildings existed on site. Aerial photographs prior to 1960 indicate that the area was reclaimed from a wetlands area starting in 1947.

Three underground storage tanks (USTs), two product dispenser islands, a station building, and a car wash are present on site. Eight groundwater monitoring wells are currently located on site, and three groundwater monitoring wells are located in the Hegenberger Road median, to the south of the site. One soil vapor well, three dual-completion soil vapor extraction/air sparge (SVE/AS) wells, and three co-axial SVE/AS wells are also located on site.

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The following sections summarize investigation and remediation activities. However, Cambria's files prior to 1993 are limited. Summaries of site activities prior to 1993 are from the November 5, 1993 *Site Investigation Report* by Pacific Environmental Group, Inc. (PEG) of Pasadena, California.



1989-1990 Site Investigations: Between 1989 and 1990, Converse Environmental West (CEW) supervised the installation of 10 groundwater monitoring wells (MW-1 through MW-10) and 13 soil borings (SB-1 through SB-13). Attachment A includes a figure which shows the boring locations. Table 1 summarizes available well data. The maximum gasoline concentrations were detected in boring SB-5 at a depth of 2 feet below grade (fbg) at a concentration of 31,000 parts per million (ppm). The boring was located east of the former USTs. The maximum benzene concentration was also detected in this boring at a concentration of 4.7 ppm.

1990 Site Investigation: During August and September 1990, CEW conducted an off-site soil investigation of the adjacent property (295 Hegenberger Road) occupied by Rollins Trucking. Soil borings SG-1 to SG-17 were advanced. A maximum concentration of 4,000 ppm total petroleum hydrocarbons as gasoline (TPHg) was found in soil from boring SG-2 at an approximate depth of 5.5 fbg.


1991 Soil Vapor Extraction (SVE) Pilot Test: During November 1991, CEW installed SVE well VEW-1 and soil vapor monitoring points VM-2 through VM-4. CEW conducted an SVE test on well VEW-1 and monitored vacuum influence in VM-2 through VM-4 and wells MW-1, MW-6 and MW-9. The SVE test results indicated a measurable radius of influence of 30 to 35 feet from well VEW-1. Using the average TPHg concentration of 49 mg/L observed during the pilot test and an average vapor extraction rate of 80 cubic feet per minute, the hydrocarbon removal rate was estimated to be approximately 14.5 pounds per hour.

1991 Soil Gas Survey: In July 1991, CEW conducted a soil gas survey along Hegenberger Road to investigate the presence of hydrocarbons in the City of Oakland utility trench (see Figure 3). Soil gas concentrations ranged from 32 to 62 ppm TPHg.

1992 Equipment Removal: On February 12, 1992, Gettler-Ryan Inc. of Dublin, California sampled the excavations of the former oil/water separator and the three former hydraulic lifts. Additional excavation was performed in April and May 1992. PEG collected closure samples which contained TPHg and oil and grease concentrations up to 1,800 and 6,800 ppm, respectively.

1993 Site Investigation: On June 8, 9, and 10, 1993, PEG supervised the installation of three groundwater monitoring wells (MW-11 through MW-13) and four dual-completion SVE/AS wells (VEW-2 through VEW-5). The monitoring well borings were advanced to a depth of 15.5 fbg. The SVE/AS well borings were advanced to depths ranging from 8.5 to 10 fbg. Soil

samples collected from groundwater monitoring well borings did not contain petroleum hydrocarbons except for the 5.5 fbg sample from MW-11, which contained 0.008 ppm toluene. The maximum TPHg concentration was detected in the 5 fbg sample collected from VEW-3 at a concentration of 1,900 ppm. The maximum benzene concentration was detected at a concentration of 6.4 ppm in the 5 fbg sample collected from well VEW-2. The maximum total petroleum hydrocarbons as diesel (TPHd) concentration was detected in well VEW-3 at a concentration of 560 ppm. PEG's November 5, 1993 *Site Investigation Report* presented investigation results.



SVE 1993-1995: SVE began on August 30, 1993, and was discontinued in February 1995 after influent TPHg and benzene concentrations reached asymptotic levels, corresponding to negligible hydrocarbon removal. A February 9, 1995 letter from PEG states that the SVE system was shut down due to low influent concentrations and high groundwater conditions. PEG's June 20, 1995 quarterly report states that the system would remain shut down until the groundwater elevations decreased to approximately 5 to 6 fbg.

1998 UST and Dispenser Upgrade: In July 1998, Paradiso Mechanical, Inc. (Paradiso) of San Leandro, California upgraded UST and dispenser equipment. On July 29, 1998, Cambria collected soil samples from native soil beneath dispenser #1 and dispenser #2 at depths of approximately 1.5 and 2.5 feet, respectively. Samples were not collected beneath dispenser #3 and dispenser #4 because only rocky fill material, and not native soil, was encountered at 3 fbg. The highest hydrocarbon concentration was 790 milligrams per kilogram (mg/kg) TPHg in sample D-1. The highest benzene concentration was 2.0 mg/kg in sample D-1. Cambria's October 13, 1998 *Dispenser Soil Sampling Report* presents results.

1999 Site Investigation, Utility Survey, and SVE Test: On March 18, 1999, Cambria supervised the advancement of three soil borings by means of a hand auger and Geoprobe®. Boring SB-1 was advanced to a depth of 11.5 fbg, with the first 9.5 feet advanced using a hand auger. Boring SB-2 was drilled to a total depth of 12.0 fbg. Boring SB-3 was advanced to a total depth of 17.0 fbg. The borings were located between the site and the 54-inch storm drain running along the westbound lanes of Hegenberger Road. The maximum TPHg concentration identified in soil during this investigation was 27.6 ppm in boring SB-3 from a depth of 9.0 fbg. The maximum TPHd concentration in soil of 35.8 ppm was detected in SB-3 at a depth of 10.5 fbg. No benzene or methyl tertiary butyl ether (MTBE) was detected in soil from any of the three borings. The maximum TPHg, TPHd and benzene concentrations identified in groundwater were detected in SB-3 at concentrations of 16,500 parts per billion (ppb), 5,080 ppb and 268 ppb, respectively. No TPHg, or benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in groundwater at SB-1.

City utility maps indicated that sanitary sewers run beneath the site, while a 54-inch storm drain runs parallel to the southeast property line under the southwest bound lanes of Hegenberger Road.

Cambria performed a site reconnaissance which revealed that the 8-inch sanitary sewer running from the open water channel (southwest of the site) is a pressurized pipeline that does not slope toward the channel as previously thought. Because of this discovery, the boring locations were revised, with the focus shifting to the area between the site and the 54-inch storm drain. No hydrocarbons were detected in backfill soil collected from boring SB-1 near the vault connecting two 8-inch sanitary sewer lines. Low diesel and MTBE levels were detected in groundwater collected from SB-1. However, it did not appear that this 8-inch sewer pipe serves as a conduit for contaminant transport to the water channel.



Soil boring and groundwater monitoring data suggested that either the storm drain intercepts and diverts groundwater flow or the plume has stabilized before it reached the down gradient monitoring wells. The mass transport of contaminants of concern within the utility corridors was estimated using a protocol established by the Regional Water Quality Control Board – San Francisco Bay Region for a similar situation at the San Francisco International Airport. The final discharge concentrations for benzene and MTBE were estimated at 23 and 13 ppb, respectively. These estimated concentrations are at or below the SFIA Order No. 95-136 saltwater ecological protection zone Tier 1 standard of 71 ppb for benzene, and the proposed guideline of 13 ppb for MTBE. The final discharge concentration for TPHg was estimated at 2,680 ppb, which exceeded the SFIA Order No. 95-136 saltwater ecological protection zone Tier 1 standard of 100 ppb for TPHg. However, Cambria anticipated the amount of TPHg that reaches the bay will be significantly less, in consideration of the dilution expected from upstream along the creek and the significant distance (over 1 mile) to the Bay.

On November 3, 1999, Cambria performed short-term SVE testing of four existing SVE wells for approximately 2 hours each, followed by a long-term test of wells VW-1 and VW-4 for approximately 5 days. Influent TPHg concentrations ranged from 259 to 1,410 parts per million by volume (ppmv). Benzene concentrations ranged from 2.3 to 32.3 ppmv. MTBE concentrations ranged from 26.4 to 44.2 ppmv as reported by EPA Method 8020. Vapor extraction flow rates ranged from 0 to 26 standard cubic feet per minute (scfm) per well based on applied vacuum ranging from 45 to 60 inches of water, resulting in a TPHg removal rate of 0.95 to 2.1 pounds per day (lbs/day) per well. During long-term testing, vapor extraction flow rates ranged from 18.0 to 22.7 scfm (combined extraction from wells VW-1 and VW-4). The TPHg removal rate during the long-term test ranged from 2.13 to 5.95 lbs/day. The total mass of TPHg removed during the test is estimated to be 18.66 pounds. The total mass of MTBE and benzene removed during the test is estimated to be 2.33 pounds and 0.97 pounds, respectively.

Cambria's May 12, 1999 *Subsurface Investigation and Vapor Extraction Test Report* presents results of these activities.

2000 SVE/AS Well Installation: On June 28, 2000, Cambria supervised the installation of three co-axial SVE/AS wells along the southeast side of the site (Figure 2) to facilitate remediation.

The 2-inch diameter inner air sparge (AS) casing extends to 15 fbg and is screened between 13 and 15 fbg. A sand filter pack surrounds the AS casing between 12 and 15 fbg, and a bentonite seal surrounds the inner pipe between 10 and 12 fbg. The 4-inch-diameter outer SVE casing extends to 10 fbg and is screened between 3 and 10 fbg. A sand filter pack surrounds the outer casing between 3 and 10 fbg, and a bentonite seal surrounds the outer pipe between 2 and 3 fbg. The maximum TPHg concentration identified during this investigation was 1,800 ppm in boring VEW-7/AS-3 from a depth of 6.5 fbg. The maximum MTBE concentration of 2.61 ppm was detected in VEW-7/AS-3 at a depth of 6.5 fbg. The maximum benzene concentration of 13.2 ppm was detected in VEW-6/AS-2 at a depth of 5.5 fbg. Cambria's September 12, 2000 *Soil Vapor and Air Sparge Well Installation Report* presents these results.



SVE/AS 2002-2003: SVE/AS began on March 25, 2002 and was discontinued on February 14, 2003 after influent TPHg, MTBE, and benzene concentrations reached asymptotic levels corresponding to negligible additional hydrocarbon removal. Vapor extraction flow rates ranged from 4.7 to 39.4 scfm. The TPHg removal rate ranged from 0.0 to 0.49 lbs/hour. The total mass of TPHg removed is estimated to be 99.26 pounds. The total mass of MTBE and benzene removed is estimated to be 0.18 pounds and 0.48 pounds, respectively.

2004 Well Survey: Cambria conducted a well survey in March 2004 at Shell's request. Review of the California State Department of Water Resources well logs and the California State Water Resources Control Board Geotracker system identified six water-producing wells within approximately a ½-mile radius of the site. Figure 1 shows the locations of the identified wells. Three wells were identified as agricultural/irrigation wells. One well was identified as an industrial well. The use of two wells could not be determined, and the locations of all the wells could not be verified in the field.

2004 Fuel System Upgrade and Over-Excavation: Paradiso upgraded fuel dispensers and piping in late June through early July 2004. Paradiso upgraded under-dispenser containment to the dispenser locations adjacent to product, vapor and vent lines. Paradiso removed and replaced all fuel and vent piping from the dispensers to the UST complex. Enhanced vapor recovery equipment on the UST fuel fill port sumps was installed.

On April 22, 2004, nine soil samples (P-1-5' through P-5-5' and D-1-5' through D-4-5') were collected at depths ranging from 4 to 5 fbg. Laboratory analytical results indicated the presence of hydrocarbons in soils in the piping trenches. Therefore, at Shell's direction, on July 6, 2004, Paradiso removed additional soil from the piping trenches, and Cambria collected seven additional soil samples (P-6-6.5' through P-12-6.5') from a depth of approximately 6.5 fbg.

TPHd was detected in all nine of the April 22, 2004 samples in concentrations ranging from 8 ppm in sample D-1-5' to 1,800 ppm in sample P-1-5'. However, the laboratory noted that the hydrocarbons reported as diesel were in the early diesel range and did not match the laboratory's

diesel standard. TPHg was detected in six of the nine samples at concentrations ranging from 120 ppm in sample P-4-5' to 7,200 ppm in sample P-1-5'. Benzene was detected in three of the nine samples at concentrations ranging from 0.51 ppm in sample P-3-5' to 3.3 ppm in sample P-5-5'. MTBE was detected in six of the nine samples at concentrations ranging from 0.0052 ppm in sample D-2-5' to 40 ppm in sample P-4-5'.

TPHd was detected in all seven of the July 6, 2004 samples in concentrations ranging from 12 ppm in sample P-11-6.5' to 170 ppm in sample P-8-6.5'. Again, the laboratory noted that the hydrocarbons reported as diesel were in the early diesel range and did not match the laboratory's diesel standard. TPHg was detected in six of the seven samples at concentrations ranging from 120 ppm in sample P-10-6.5' to 6,500 ppm in sample P-8-6.5'. Benzene was detected in four of the seven samples at concentrations ranging from 1.0 ppm in sample P-7-6.5' to 3.6 ppm in sample P-6-6.5'. MTBE was detected in six of the seven samples at concentrations ranging from 1.2 ppm in sample P-7-6.5' to 21 ppm in sample P-9-6.5'. Cambria's August 4, 2004 *Dispenser and Piping Upgrade Sampling Report* presented these results and activities.

November 2004 Interim Dual Phase Extraction (DPE): Between November 15 and November 24, 2004, interim DPE from wells MW-1, MW-9 and MW-10 was implemented. During 163.2 hours of DPE from well MW-10, a low average flow rate of approximately 6.6 scfm was obtained with a measured wellhead vacuum level ranging from 90.1 to 218.1 inches. The total vapor-phase TPHg, benzene and MTBE mass removed from well MW-10 is estimated at 93.6, 1.37, and 0.389 pounds, respectively. During 25.4 hours of DPE from well MW-9, a low average flow rate of approximately 2.4 scfm was obtained with a measured wellhead vacuum level ranging from 32.8 to 191.7 inches of water column gauge (WC). The total vapor-phase TPHg, benzene and MTBE mass removed from well MW-9 is estimated at 0.009, 0.0002 and 0.00003 pounds, respectively. During 24.4 hours of DPE from well MW-1, a low average flow rate of approximately 5.0 scfm was obtained at a measured wellhead vacuum level ranging from 26.5 to 199.1 inches WC. The total vapor-phase TPHg, benzene and MTBE mass removed from well MW-1 is estimated at 4.38, 0.068, and 0.004 pounds, respectively. Vacuum influence was monitored, but not detected, in surrounding wells. The groundwater yield during this test was low, totaling approximately 950 gallons over 213 hours of DPE. Cambria's March 31, 2005 *Interim Remediation Report* presented the results of interim DPE performed in November 2004.

SVE/AS Equipment Removal: On March 28, 2005, the remediation container and enclosed SVE/AS system components were removed from the site. The underground remediation piping remains and all conduits are capped above grade in the northern corner of the site.

Groundwater Monitoring 1989 - Present: Groundwater has been monitored on site since February 1989 in wells MW-1, MW-2, and MW-3. Since then, 10 more monitoring wells have been installed and monitored. Maximum historical chemical concentrations in groundwater are

140,000 ppb TPHg in well MW-7 (April 10, 1991), 29,000 ppb benzene in well MW-7 (October 8, 1991), and 32,000 ppb MTBE in well MW-1 (June 8, 1998). In the most recent groundwater monitoring event (April 13, 2005), monitoring well MW-10 contained the highest TPHg concentration (83,000 ppb), benzene concentration (22,000 ppb), and MTBE concentration (22,000 ppb). Attachment B presents historical groundwater monitoring data.

SITE CONDITIONS




Soil Lithology: The site is located on artificial fill near the East Bay Plain area of Alameda County, approximately 3 miles west of the Hayward Fault. The East Bay Plain area is characterized by Quaternary age Bay Mud composed of unconsolidated plastic clay and silty clay, rich in organic material with some lenses of silt and sand. Beneath the Bay Mud deposits lie unconsolidated younger and older alluvial deposits (Hickenbottom and Muir, 1988). According to the USGS map (*Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California*, R. W. Graymer, 2000), the site is located on artificial fill. Lithology consists primarily of gravelly sands of high estimated permeability to the approximate depth of 9 to 11 fbg. The sands are underlain by silty clay of low estimated permeability to approximately 14 fbg. A silty sand layer was encountered between 14 and 16 fbg. Attachment A presents all available boring logs for existing site wells.

Hydrogeology: The Older Alluvium is the dominant aquifer in the East Bay Plain area west of the Hayward Fault. Regional groundwater flow is to the west-southwest toward San Francisco Bay. The site elevation is approximately 10 feet above mean sea level. Because the site is located on artificial fill, shallow groundwater at the site is unlikely to be part of a recognized aquifer. Groundwater in the vicinity is located at depths between 4 and 8 fbg. Based on quarterly groundwater monitoring data, groundwater generally flows toward the southeast. The nearest natural drainage is San Leandro Creek, the artificial channel for which is located approximately 200 feet south of the site.

INTERIM REMEDIATION

As identified in prior investigations, the primary area of groundwater and soils impacted by petroleum hydrocarbons is immediately southeast of the dispenser islands and USTs. Operation of the SVE/AS system to its cost-effective limit has remediated this area to a large degree. Hydrocarbon concentrations in wells VEW-5 through VEW-7 remain low relative to concentrations prior to SVE/AS operation. The 2004 soil over-excavation activities following the

fuel system upgrade work were carried out to their practical limit and removed additional impacted soils. The over-excavation work reduced the potential for soils to further impact groundwater in this area.



Cambria implemented interim DPE in November 2004 to address residual hydrocarbon impact on the edges of the extent influence of the former SVE/AS system (wells MW-1, MW-9, and MW-10). The vapor concentration and mass removal data from MW-9 suggested that DPE was not effective as interim remediation there. Mass removal data from MW-1 suggested that DPE was only moderately effective as interim remediation there, and decreasing vapor concentrations throughout DPE suggested that the hydrocarbon mass remaining near this well is small. Mass removal data from MW-10 suggested that DPE was moderately effective as interim remediation, and increasing vapor concentrations throughout DPE suggested the presence of remaining residual hydrocarbon mass in saturated soils in the area. Cambria recommended and implemented additional DPE from well MW-10 between April 18 and April 24, 2005.

Health and Safety Plan: A site-specific Health and Safety Plan was prepared and maintained on site throughout the DPE activities.

Permitting: DPE was conducted under the authorization of an existing Bay Area Air Quality Management District (BAAQMD) permit to operate vapor abatement equipment at the subject site (BAAQMD Plant # 13359). The BAAQMD was notified of DPE activities on April 8, 2005. BAAQMD required no additional conditions.

SVE Equipment: A Solleco trailer-mounted liquid-ring pump with electric catalytic oxidizer (Solleco unit) was used as the extraction and vapor abatement device during DPE. A 150-kilowatt generator powered the Solleco unit. A throttle valve was used to control the applied vacuum and vapor extraction flow rate. The Solleco unit is equipped with an auto-dilution valve and a manual dilution valve to further control vacuum and flow, as well as to maintain the oxidizer temperatures within the specified range.

Field vapor concentrations were measured with a Horiba model MEXA554JU organic vapor analyzer. A Thomas Industries model 907CDC18F vacuum pump was used to collect vapor samples in one-liter Tedlar bags. Magnehelic differential pressure gauges were used to monitor vacuum induced in nearby wells and at the wellhead of the extraction point.

A down-well "stinger" installed through an air-tight well seal to within 1 foot from the bottom of the well allowed dewatering and SVE of saturated soils. The extracted groundwater was stored in a 500-gallon aboveground storage tank (AST) and an additional 55-gallon drum on site. The AST was emptied once during DPE and after the completion of DPE and transported to Shell's Refinery in Martinez, California for recycling, using vacuum trucks supplied by Onyx Industrial Services of Benicia, California.

Data Collection and Sampling: Data was collected on standard forms. Throughout DPE, Cambria measured the applied vacuum, air flow, volatile organic vapor concentration, and vacuum influence in nearby wells. Data was collected at 15 to 30 minute intervals for 3 to 4 hours per day, after which the equipment was set to operate overnight or over the weekend. Vapor samples for laboratory analysis were collected in 1-liter tedlar bags at the end of each weekday and at the conclusion of DPE.

Analyses: State-certified Severn Trent Laboratories of Pleasanton, California analyzed vapor samples by EPA Method 8260B to determine TPHg, BTEX, and MTBE concentrations and to verify field measurements.



DPE Results

Table 2 summarizes DPE mass removal data. Table 3 summarizes depth to water (DTW) and vacuum influence measurements. Field data sheets are presented as Attachment C. Laboratory analytical results are presented as Attachment D. Details of April 2005 interim remediation are presented below:

April 18, 2005: DPE from well MW-10 began at 11:53 on April 18. After the well was dewatered, Cambria adjusted the applied vacuum in order to determine the maximum air flow rate and the optimal operation settings.

Applied vacuum readings were measured at the wellhead. An average wellhead vacuum of 85.2 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 5 to 18.5 inches of mercury gauge (Hg). The maximum wellhead vacuum measured was 123.7 inches WC. The extraction flow rate ranged from 2.5 to 5.9 scfm and averaged 4.5 scfm. Vacuum influence was monitored, but not observed, in wells MW-4 and VEW-7. Vacuum influence was not monitored in well MW-3 because measured DTW indicated that the well screen was submerged (see Table 3).

Vapor samples were collected from the Solleco unit (undiluted influent stream) for laboratory analysis. A vapor sample collected at the end of the day (15:00) contained 33 ppmv TPHg, 1.1 ppmv benzene, and 1.2 ppmv MTBE. The Solleco unit was set to operate overnight to maximize the remedial effort.

April 19, 2005: DPE from well MW-10 continued throughout the day. An average wellhead vacuum of 227.5 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 18 to 24 inches Hg. The maximum wellhead vacuum measured was 233.0 inches WC. The extraction flow rate ranged from 3.5 to 11.1 scfm and averaged 6.4 scfm. Vacuum influence was monitored at 30 minute intervals throughout the day and was measured at 0.1 inches WC in MW-4 at 8:45 and 11:45, and in VEW-7 at 11:45. Vacuum influence was not monitored in well MW-3 because measured DTW indicated that the well screen was submerged.

A vapor sample collected at the end of the day (12:45) contained 45 ppmv TPHg, 2.1 ppmv benzene, and 4.3 ppmv MTBE. The Solleco unit was set to operate overnight to maximize the remedial effort.

April 20, 2005: DPE from well MW-10 continued throughout the day. An average wellhead vacuum of 164.6 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 19 to 23 inches Hg. The maximum wellhead vacuum measured was 213.6 inches WC. The extraction flow rate ranged from 2.4 to 9.5 scfm and averaged 5.6 scfm. Vacuum influence was monitored at 15 to 30 minute intervals throughout the day, and was measured at 0.1 inches WC in MW-4 at 9:45 and 10:15, and in VEW-7 at 12:30. Vacuum influence was not monitored in well MW-3 because measured DTW indicated that the well screen was submerged.

A vapor sample collected near the end of the day (12:45) contained 92 ppmv TPHg, 14 ppmv benzene, and 34 ppmv MTBE. The Solleco unit was set to operate overnight to maximize the remedial effort.

April 21, 2005: DPE from well MW-10 continued throughout the day. An average wellhead vacuum of 155.1 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 22 to 23.6 inches Hg. The maximum wellhead vacuum measured was 177.8 inches WC. The extraction flow rate ranged from 2.6 to 29.3 scfm and averaged 14.6 scfm. Vacuum influence was monitored, but not observed, in wells MW-4 and VEW-7. Vacuum influence was not monitored in well MW-3 because measured DTW indicated that the well screen was submerged.

A vapor sample collected at the end of the day (13:00) contained 58 ppmv TPHg, 7.8 ppmv benzene, and 21 ppmv MTBE. The Solleco unit was set to operate overnight to maximize the remedial effort.

April 22, 2005: DPE from well MW-10 continued throughout the day. An average wellhead vacuum of 160.6 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 22.5 to 26 inches Hg. The maximum wellhead vacuum measured was 191.0 inches WC. The extraction flow rate ranged from 9.3 to 21.5 scfm and averaged 17.0 scfm. Vacuum influence was monitored, but not observed, in wells MW-4 and VEW-7. Vacuum influence was not monitored in well MW-3 because measured DTW indicated that the well screen was submerged.

A vapor sample collected near the end of the day (12:45) contained <9.8 ppmv TPHg, <0.31 ppmv benzene, and 1.1 ppmv MTBE. The Solleco unit was set to operate overnight to maximize the remedial effort.

April 23, 2005: Cambria visited the site to make adjustments to the applied vacuum, to monitor system flow rate, concentrations, and vacuum at the wellhead, and to gauge the remaining water storage capacity. Accumulated groundwater was diverted from the Solleco unit knockout tank into a 55-gallon drum on site, and DPE from well MW-10 continued throughout the day. Between 8:00 and 8:20, an average wellhead vacuum of 151.8 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 23.5 to 23.7 inches Hg. The maximum wellhead vacuum measured was 163.5 inches WC. The extraction flow rate ranged from 29 to 29.5 scfm and averaged 29.3 scfm. The Solleco unit was set to operate overnight to maximize the remedial effort.



April 24, 2005: Cambria visited the site to make adjustments to the applied vacuum, to monitor system flow rate, concentrations, and vacuum at the wellhead, and to gauge the remaining water storage capacity. The remaining water storage capacity was insufficient to continue DPE overnight, and since volatile organic vapor concentrations remained low, Cambria collected a final vapor sample and discontinued DPE. Between 13:45 and 15:00, an average wellhead vacuum of 172.0 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 23.5 to 23.8 inches Hg. The maximum wellhead vacuum measured was 176.5 inches WC. The extraction flow rate ranged from 16.9 to 24.4 scfm and averaged 20.1 scfm. Vacuum influence was monitored, but not observed, in wells MW-4 and VEW-7. Vacuum influence was not monitored in well MW-3 because measured DTW indicated that the well screen was submerged.

A vapor sample collected just prior to discontinuing DPE (15:10) contained 120 ppmv TPHg, 8.9 ppmv benzene, and 21 ppmv MTBE.

CONCLUSIONS

Groundwater yield during DPE was low, but higher than the yield from MW-10 during the November 2004 interim DPE. A total of approximately 1,000 gallons of groundwater was extracted during 148.5 hours of DPE, for an average overall GWE rate of 0.11 gallons per minute (gpm). By comparison, a total of approximately 190 gallons of groundwater was extracted during 163.2 hours of DPE from well MW-10 in November 2004, for an average total extraction rate of 0.02 gpm. The increased groundwater yield during the second DPE test can be attributed to seasonal fluctuations in groundwater elevation beneath the site.

Vacuum influence was monitored in wells MW-3, MW-4, and VEW-7 during segments of the DPE test on well MW-10, but was either minimal or not detected. The lack of vacuum influence during the test may be attributed to the significant distance between the target well and the observation wells (approximately 30 to 65 feet) and to the fact that well screens in the monitored

wells were submerged or nearly submerged throughout DPE. The lack of drawdown in the observation wells indicates that the extent of the cone of depression around MW-10 was limited. Thus, the area of soils remediated by vapor extraction around MW-10 was likely limited.

The vapor concentration and mass removal data from well MW-10 suggest that DPE is not effective as interim remediation when shallow water level conditions exist beneath the site. A moderate average flow rate of approximately 11.9 scfm was obtained from well MW-10 with a measured wellhead vacuum level ranging from 6.5 to 233.0 inches WC. TPHg, BTEX and MTBE vapor concentrations remained low throughout the 148.5-hour DPE test. Based on operating parameters and vapor sample analytical results, the total vapor-phase TPHg, benzene and MTBE mass removed from well MW-10 is estimated at 2.19, 0.157 and 0.425 pounds, respectively (Table 2).




Compared to fourth quarter 2004, results of the first quarter 2005 groundwater monitoring event indicate a significant increase in TPHg, benzene and MTBE concentrations in wells MW-1 and MW-10, and an increase in TPHg concentration in MW-9. TPHg, benzene and MTBE were detected at concentrations of 9,100, 2,100 and 680 ppb, respectively, in samples collected from MW-1 on November 2, 2004, compared to 21,000 ppb TPHg, 2,700 ppb benzene and 1,000 ppb MTBE in samples collected on January 10, 2005. Similarly, TPHg, benzene and MTBE were detected at concentrations of 48,000, 16,000 and 3,100 ppb, respectively, in samples collected from MW-10 on November 2, 2004, compared to 120,000 ppb TPHg, 21,000 ppb benzene and 16,000 ppb MTBE in samples collected on January 10, 2005. TPHg, benzene and MTBE were detected at concentrations of 15,000, 9,300 and 70 ppb, respectively, in samples collected from MW-9 on November 2, 2004, compared to 28,000 ppb TPHg, 7,400 ppb benzene and <50 ppb MTBE in samples collected on January 10, 2005 (see Attachment B).

The results of the second quarter 2005 groundwater monitoring event, conducted on April 13, 2005 (prior to the second round of interim DPE), indicate differing trends in wells MW-1, MW-10 and MW-9. TPHg, benzene and MTBE concentrations in well MW-1 have declined relative to first quarter 2005 levels and are currently below fourth quarter 2004 levels, prior to interim DPE (8,800, 1,500 and 430 ppb, respectively). Second quarter 2005 results indicate that the TPHg concentration in MW-10 has declined relative to the first quarter 2005 result, but is still higher than the fourth quarter 2004 result, prior to interim DPE (83,000 ppb). Benzene and MTBE concentrations in well MW-10 continued to increase from first quarter 2005 levels. TPHg and benzene concentrations in MW-9 increased in the second quarter 2005, and the benzene level is now higher than during the fourth quarter 2004. MTBE in MW-9 remained non-detect at a detection level of 50 ppb (see Attachment B).

Elevated concentrations are often observed as a temporary after-effect of DPE because constituent mass remaining in the subsurface is pulled toward the extraction points. Seasonal concentration fluctuations, whereby elevated concentrations correlate to shallower groundwater

elevations, may also contribute to the observed concentration trends in wells MW-9 and MW-10. The recent over-excavation work may have helped to decrease hydrocarbon concentrations in well MW-1, but the effects of over-excavation may not have extended to wells MW-9 and MW-10.



Hydrocarbon mass removal during April 2005 interim DPE was minimal, although November 2004 interim DPE data suggested that hydrocarbon mass remained and that DPE was an effective means of remediation. It is not clear why soil vapor mass removal was so much lower in April 2005 than in November 2004, since the tests were performed using nearly identical equipment and procedures. The disparate results may be attributed, in part, to higher groundwater levels beneath the site. Compared to groundwater gauging results from November 2, 2004, groundwater levels collected from MW-10 and the surrounding wells (MW-3, MW-4 and VEW-7) were an average of 1.5 feet higher on April 13, 2005 (see Attachment B). The low air flow and high vacuum readings demonstrated during DPE were consistent with soil types (clay) observed during investigation activities. The results of DPE conducted in November 2004 and April 2005 indicate that the soils at the site are highly impermeable to both air and groundwater flow. While this makes remediation difficult, it also limits the rate at which soil vapors and groundwater migrate. This may explain, in part, why significant off-site groundwater plume migration has not been observed. Although residual hydrocarbons remain in the soil and groundwater at the site, primarily near wells MW-1, MW-9 and MW-10, the site characteristics and remediation history suggest that the impact is localized and does not pose a significant threat to potential receptors.

RECOMMENDATIONS

Cambria recommends preparing a site conceptual model (SCM). The SCM will be used to concisely present all relevant site data, identify any areas where additional data needs to be gathered, and inform decisions about the future course of action for this site.

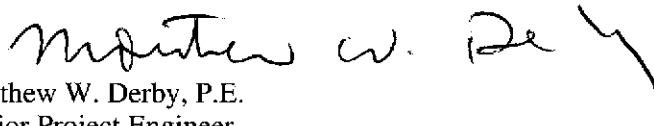
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If you have any questions regarding the contents of this document, please call Cynthia Vasko at (510) 420-3344.

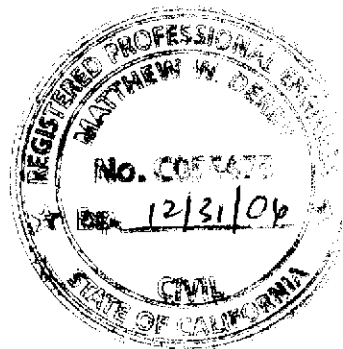
Sincerely,
Cambria Environmental Technology, Inc.



Cynthia Vasko
Project Engineer



Matthew W. Derby, P.E.
Senior Project Engineer



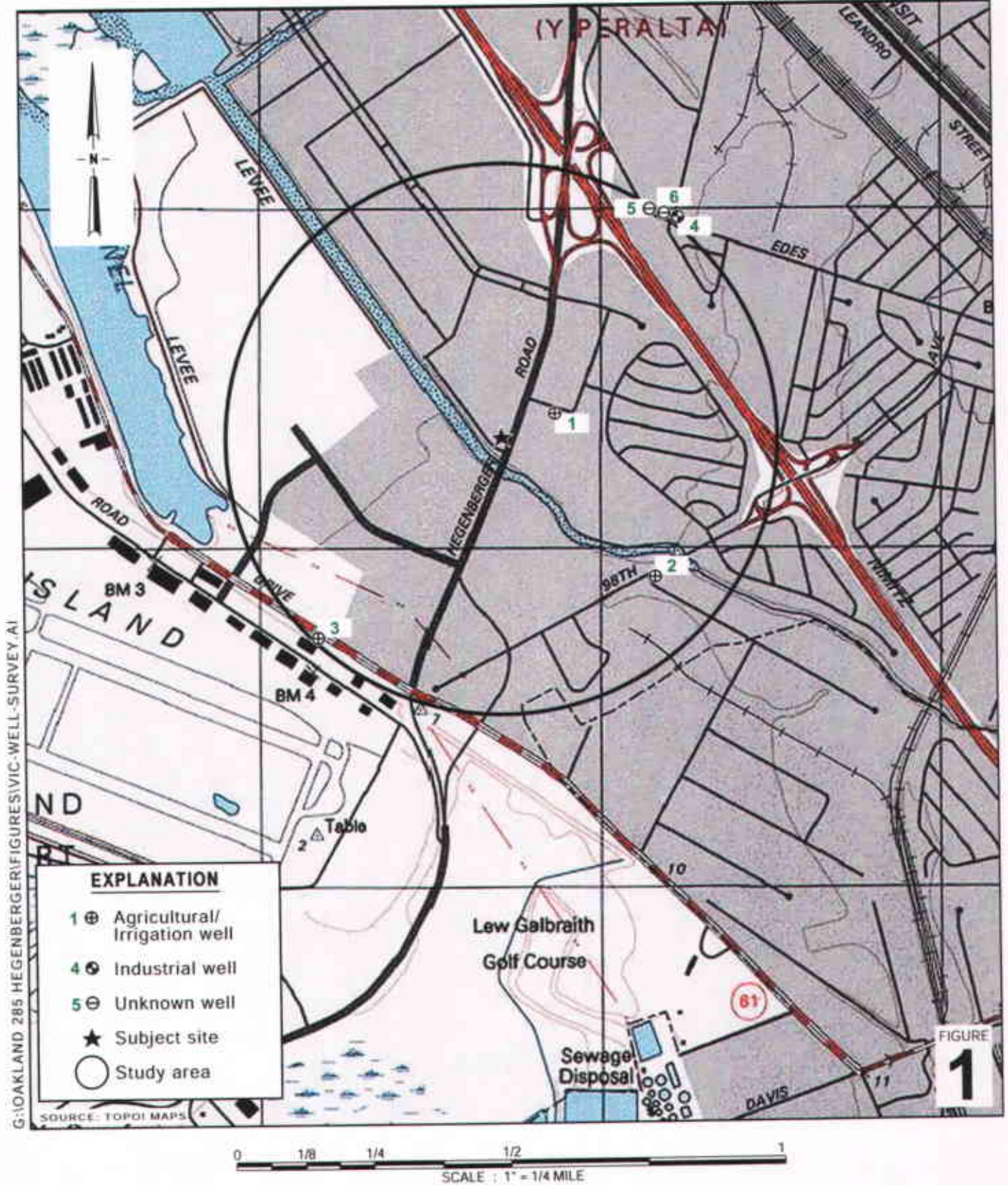
Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map
 3 - Co-Axial Vapor and Sparge Well and Underground Utility Location Map

Tables: 1 - Well Data
 2 - Dual-Phase Extraction – Mass Removal Data
 3 - DTW and Vacuum Influence Data

Attachments: A - Available Boring Logs
 B - Historical Groundwater Monitoring Data
 C - Field Data Sheets
 D - Certified Laboratory Analytical Reports

cc: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
 J.T., Elizabeth G., W.T., and Jeanette Watters, Tr., 600 Caldwell Road, Oakland, CA 94611

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- EXPLANATION**
- 1 ⊕ Agricultural/Irrigation well
 - 4 ⊕ Industrial well
 - 5 ⊕ Unknown well
 - ★ Subject site
 - Study area

SOURCE: TOPOI MAPS

0 1/8 1/4 1/2 1
SCALE : 1" = 1/4 MILE

Shell-branded Service Station
285 Hegenberger Road
Oakland, California
Incident #98995749



C A M B R I A

Vicinity/Area Well Survey Map
(1/2-Mile Radius)

FIGURE
1



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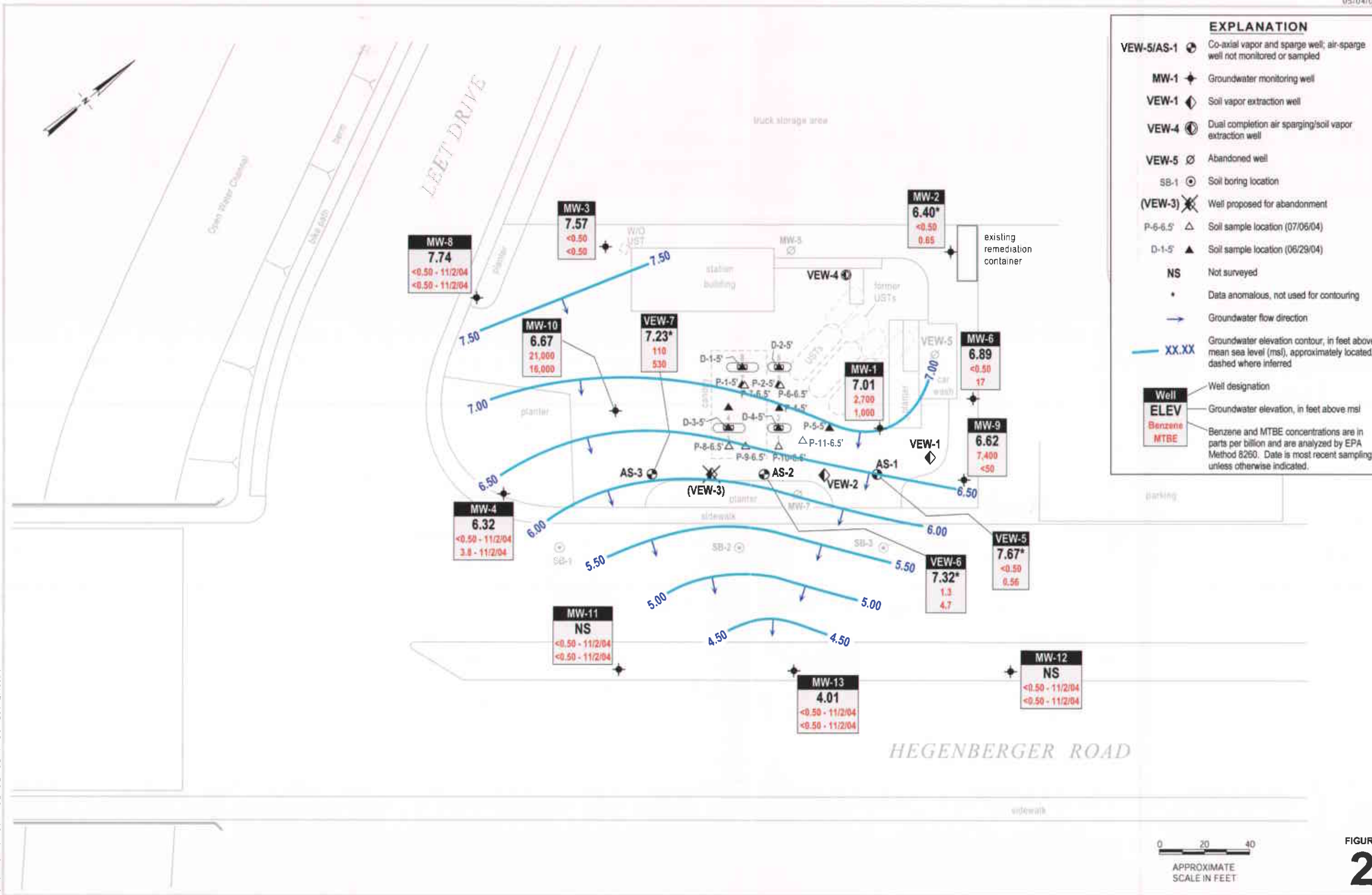
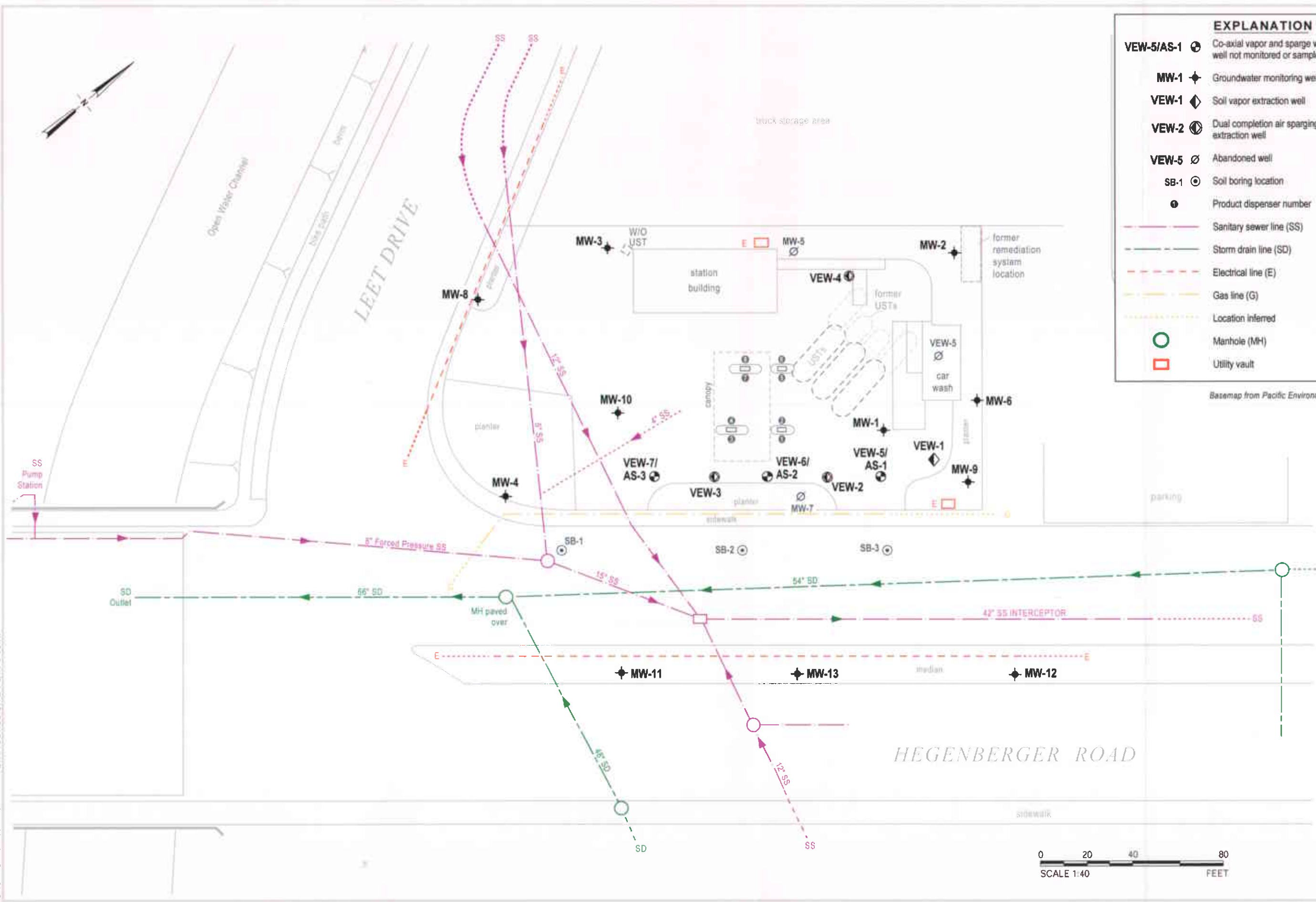


FIGURE 2

G:\OAKLAND 285 HEGENBERGER\FIGURES\SITE PLAN 6-05.A1



EXPLANATION	
VEW-5/AS-1	Co-axial vapor and sparge well; air-sparge well not monitored or sampled
MW-1	Groundwater monitoring well
VEW-1	Soil vapor extraction well
VEW-2	Dual completion air sparging/soil vapor extraction well
VEW-5	Abandoned well
SB-1	Soil boring location
●	Product dispenser number
— (red dashed)	Sanitary sewer line (SS)
— (green dashed)	Storm drain line (SD)
— (blue dashed)	Electrical line (E)
— (yellow dashed)	Gas line (G)
⋯ (dotted)	Location inferred
○	Manhole (MH)
□	Utility vault

Basemap from Pacific Environmental Group, Inc.

0 20 40 80
SCALE 1:40 FEET

FIGURE 3

Co-Axial Vapor and Sparge Well and Underground Utility Location Map



Shell-branded Service Station
 285 Hegenberger Road
 Oakland, California
 Incident No. 98995749

Table 1. Well Data, Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Name	Type/ Drilling Method	Date Installed	TOC (ft msl)	Total Depth (fbg)	Soil Sample Interval (ft)	First Encountered GW Depth (fbg)	Elev (ft msl)	Screen Diam. (In)	Screen Depth (fbg) Top	Bottom	Comments
MW-1	Monitoring Well/HSA	13-Feb-85	-	16.5	5	6.0	-	4	5.0	10.0	
MW-2	Monitoring Well/HSA	14-Feb-85	-	16.5	5	6.0	-	4	5.0	10.0	
MW-3	Monitoring Well/HSA	13-Feb-85	-	16.5	5	6.0	-	4	5.0	10.0	
MW-4	Monitoring Well/HSA	27-Apr-85	-	14.0	5	7.0	-	4	5.0	10.0	
MW-6	Monitoring Well/HSA	27-Apr-85	-	12.0	5	5.5	-	4	5.0	10.0	
MW-8	Monitoring Well/HSA	27-Apr-85	-	12.0	5	9.0	-	4	5.0	10.0	
MW-9	Monitoring Well/HSA	12-Jul-85	-	10.5	5	6.0	-	4	5.0	10.0	
MW-10	Monitoring Well/HSA	15-Nov-85	-	13.0	5	6.5	-	4	5.0	10.0	
MW-11	Monitoring Well/HSA	7-Jun-89	10.56	15.5	5	8.5	2.06	4	4.0	14.0	
MW-12	Monitoring Well/HSA	7-Jun-89	9.56	15.5	5	5.3	4.31	4	5.0	15.0	
MW-13	Monitoring Well/HSA	9-Jun-89	10.10	15.5	5	8.5	1.60	4	5.0	15.0	
VEW-1	Vapor Ext. Well/HA	20-Nov-87	-	7.0	5	6.0	-	4	3.0	7.0	
VEW-2	Vapor Ext. Well/HSA	8-Jun-89	-	6.5	5	4.5	-	2	3.5	6.5	
VEW-2	Sparge Well/HSA	8-Jun-89	-	8.5	5	4.5	-	2	7.5	8.5	
VEW-3	Vapor Ext. Well/HSA	8-Jun-89	-	6.5	5	4.5	-	2	3.5	6.5	
VEW-3	Sparge Well/HSA	8-Jun-89	-	8.5	5	4.5	-	2	7.5	8.5	
VEW-4	Vapor Ext. Well/HSA	8-Jun-89	-	6.5	5	4.5	-	2	3.5	6.5	
VEW-4	Sparge Well/HSA	8-Jun-89	-	9.0	5	4.5	-	2	8.0	9.0	
VEW-5/	Co-axial Well/HSA	28-Jun-00	-	10.0	5	5.0	-	4	3.0	10.0	
AS-1	Co-axial Well/HSA	28-Jun-00	-	15.0			-	2	13.0	15.0	
VEW-6/	Co-axial Well/HSA	28-Jun-00	-	10.0			-	4	3.0	10.0	
AS-2	Co-axial Well/HSA	28-Jun-00	-	15.0			-	2	13.0	15.0	
VEW-7/	Co-axial Well/HSA	28-Jun-00	-	10.0			-	4	3.0	10.0	
AS-3	Co-axial Well/HSA	28-Jun-00	-	15.0			-	2	13.0	15.0	

Table 1. Well Data, Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Name	Type/ Drilling Method	Date Installed	TOC (ft msl)	Total Depth (fbg)	Soil Sample Interval (ft)	First Encountered GW Depth (fbg)	Elev (ft msl)	Screen Diam. (In)	Screen Depth (fbg)		Comments
								Top	Bottom		
<u>Abbreviations:</u>											
HSA - Hollow stem auger											
TOC = Top of casing											
ft msl = Feet referenced to mean sea level.											
fbg = Feet below grade											
ft = Feet											
In = Inches											
GW = Groundwater											
Diam. = Diameter											

Table 2. Dual-phase Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Well Head				Hydrocarbon Concentrations			TPHg		Benzene		MTBE	
			Vacuum		Flow Rate		TPHg	Benzene	MTBE	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed
			Gauge(in WC)	Abs(in WC)	(ACFM)	(SCFM)	(Concentrations in ppmv)			(#/hour)	(#)	(#/hour)	(#)	(#/hour)	(#)
MW-10 DPE Test															
4/18/2005 11:53	3139.5	0.0	NM	283.1	NM	4.0	NM			0.0018	0.000	0.0001	0.0000	0.0001	0.00000
12:30	3140.1	0.6	123.7	283.1	5.8	4.0	684			0.0018	0.0011	0.0001	0.0000	0.0001	0.0000
13:00	3140.6	1.1	6.5	400.3	6.0	5.9	26			0.0026	0.0024	0.0001	0.0001	0.0001	0.0001
13:30	3141.2	1.7	14.5	392.3	5.0	4.8	16			0.0021	0.0036	0.0001	0.0001	0.0001	0.0001
13:45	3141.4	1.9	100.0	306.8	5.0	3.8	290			0.0017	0.0040	0.0001	0.0001	0.0001	0.0001
14:00	3141.7	2.2	113.4	293.4	3.5	2.5	206			0.0011	0.0043	0.0000	0.0001	0.0000	0.0002
14:15	3141.9	2.4	117.8	289.0	8.3	5.9	237			0.0026	0.0048	0.0001	0.0001	0.0001	0.0002
14:30	3142.2	2.7	120.4	286.4	6.7	4.7	242			0.0021	0.0055	0.0001	0.0002	0.0001	0.0002
15:00	3142.7	3.2	NM	286.4	NM	4.7	33	1.1	1.2	0.0021	0.0065	0.0001	0.0002	0.0001	0.0002
4/19/2005 8:45	3160.5	21.0	223.0	183.8	21.0	9.5	86			0.0057	0.1081	0.0002	0.0045	0.0006	0.0102
9:15	3161.0	21.5	227.7	179.1	25.3	11.1	71			0.0067	0.1114	0.0003	0.0046	0.0007	0.0105
9:45	3161.5	22.0	229.5	177.3	15.6	6.8	249			0.0041	0.1135	0.0002	0.0047	0.0004	0.0107
10:15	3162.0	22.5	232.8	174.0	13.9	5.9	270			0.0036	0.1153	0.0002	0.0048	0.0003	0.0109
10:45	3162.5	23.0	228.5	178.3	16.5	7.2	377			0.0044	0.1175	0.0002	0.0049	0.0004	0.0111
11:15	3163.1	23.6	228.8	178.0	11.8	5.2	403			0.0031	0.1193	0.0001	0.0050	0.0003	0.0113
11:45	3163.6	24.1	226.0	180.8	9.0	4.0	435			0.0024	0.1205	0.0001	0.0050	0.0002	0.0114
12:15	3164.1	24.6	233.0	173.8	8.1	3.5	427			0.0021	0.1216	0.0001	0.0051	0.0002	0.0115
12:45	3164.6	25.1	218.6	188.2	9.5	4.4	45	2.1	4.3	0.0026	0.1229	0.0001	0.0051	0.0003	0.0116
4/20/2005 9:45	3185.7	46.2	211.7	195.1	8.4	4.0	48			0.0050	0.2274	0.0007	0.0196	0.0019	0.0512
10:15	3186.3	46.8	213.4	193.4	7.5	3.6	46			0.0044	0.2301	0.0006	0.0199	0.0017	0.0521
10:45	3186.7	47.2	213.6	193.2	5.0	2.4	40			0.0029	0.2312	0.0004	0.0201	0.0011	0.0526
11:00	3187.0	47.5	150.4	256.4	15.1	9.5	53			0.0117	0.2347	0.0016	0.0206	0.0044	0.0539
11:30	3187.5	48.0	143.9	262.9	14.0	9.0	54			0.0111	0.2403	0.0015	0.0213	0.0042	0.0560
12:00	3188.0	48.5	134.0	272.8	10.9	7.3	36			0.0090	0.2448	0.0012	0.0219	0.0034	0.0577
12:30	3188.5	49.0	115.0	291.8	8.0	5.7	61			0.0071	0.2483	0.0010	0.0224	0.0027	0.0591
13:00	3189.0	49.5	135.0	271.8	5.0	3.3	92	14	34	0.0041	0.2504	0.0006	0.0227	0.0016	0.0598
4/21/2005 9:00	3209.1	69.6	124.0	282.8	3.8	2.6	55			0.0020	0.2915	0.0002	0.0277	0.0008	0.0751
9:30	3209.6	70.1	126.5	280.3	8.0	5.5	53			0.0043	0.2937	0.0005	0.0280	0.0016	0.0759
10:00	3210.1	70.6	163.7	243.1	19.3	11.5	151			0.0089	0.2982	0.0011	0.0285	0.0033	0.0775
10:30	3210.6	71.1	159.4	247.4	20.2	12.3	128			0.0095	0.3029	0.0012	0.0291	0.0035	0.0793
10:45	3210.8	71.3	176.3	230.5	9.1	5.2	441			0.0040	0.3037	0.0005	0.0292	0.0015	0.0796
11:00	3211.1	71.6	177.8	229.0	25.1	14.1	205			0.0110	0.3070	0.0013	0.0296	0.0041	0.0808
11:30	3211.6	72.1	177.4	229.4	24.5	13.8	256			0.0107	0.3124	0.0013	0.0303	0.0040	0.0828
12:00	3212.1	72.6	151.0	255.8	35.0	22.0	135			0.0171	0.3209	0.0021	0.0313	0.0063	0.0860
12:15	3212.3	72.8	152.4	254.4	46.8	29.3	130			0.0227	0.3254	0.0028	0.0319	0.0084	0.0876
12:30	3212.6	73.1	149.5	257.3	33.3	21.1	110			0.0163	0.3303	0.0020	0.0325	0.0061	0.0895
13:00	3213.1	73.6	148.2	258.6	37.0	23.5	58	7.8	21	0.0182	0.3394	0.0022	0.0336	0.0068	0.0928
4/22/2005 8:15	3232.6	93.1	134.6	272.2	25.0	16.7	700			0.0011	0.3608	0.0000	0.0342	0.0003	0.0977
8:45	3233.1	93.6	177.0	229.8	32.0	18.1	120			0.0012	0.3614	0.0000	0.0342	0.0003	0.0979
9:15	3233.6	94.1	173.0	233.8	31.5	18.1	6,000			0.0012	0.3620	0.0000	0.0342	0.0003	0.0980
9:45	3234.1	94.6	170.0	236.8	37.0	21.5	1,850			0.0014	0.3627	0.0000	0.0343	0.0003	0.0982
10:15	3234.6	95.1	191.0	215.8	NA	16.6	140			0.0011	0.3632	0.0000	0.0343	0.0002	0.0983
10:45	3235.1	95.6	190.0	216.8	NA	16.6	185			0.0011	0.3638	0.0000	0.0343	0.0002	0.0984
11:15	3235.6	96.1	191.0	215.8	18.5	9.8	160			0.0006	0.3641	0.0000	0.0343	0.0001	0.0985

Table 2. Dual-phase Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Well Head				Hydrocarbon Concentrations			TPHg		Benzene		MTBE	
			Vacuum		Flow Rate		TPHg	Benzene	MTBE	Removal Rate (#/hour)	Cumulative Removed (#)	Removal Rate (#/hour)	Cumulative Removed (#)	Removal Rate (#/hour)	Cumulative Removed (#)
			Gauge(in WC)	Abs(in WC)	(ACFM)	(SCFM)									
11:45	3236.1	96.6	112.0	294.8	25.8	18.7	55			0.0012	0.3647	0.0000	0.0343	0.0003	0.0986
12:15	3236.6	97.1	113.0	293.8	29.0	20.9	52			0.0014	0.3654	0.0000	0.0343	0.0003	0.0988
12:30	3236.9	97.4	NM	293.8	NM	20.9	<9.8	<0.31	1.1	0.0014	0.3658	0.0000	0.0343	0.0003	0.0989
12:45	3237.1	97.6	154.0	252.8	15.0	9.3	335			0.0150	0.3688	0.0010	0.0345	0.0027	0.0994
4/23/2005 8:00	3256.5	117.0	140.0	266.8	45.0	29.5	94			0.0473	1.2873	0.0032	0.0963	0.0085	0.2639
8:20	3256.8	117.3	163.5	243.3	48.5	29.0	284			0.0465	1.3012	0.0031	0.0973	0.0083	0.2664
4/24/2005 13:45	3286.5	147.0	176.5	230.3	31.1	17.6	210			0.0282	2.1401	0.0019	0.1537	0.0051	0.4166
14:15	3287	147.5	172.0	234.8	35.8	20.7	212			0.0331	2.1566	0.0022	0.1548	0.0059	0.4196
14:30	3287.3	147.8	170.1	236.7	41.9	24.4	234			0.0391	2.1684	0.0026	0.1556	0.0070	0.4217
14:45	3287.5	148.0	170.5	236.3	36.2	21.0	247			0.0337	2.1751	0.0023	0.1560	0.0060	0.4229
15:00	3287.8	148.3	170.7	236.1	29.1	16.9	195			0.0271	2.1832	0.0018	0.1566	0.0049	0.4243
15:10	3288.0	148.5	NM	236.1	NM	16.9	120	8.9	21	0.0271	2.1887	0.0018	0.1570	0.0049	0.4253
Total Pounds Removed:									TPHg = 2.19	Benzene = 0.157	MTBE = 0.425				

Abbreviations and Notes:

in WC = inches of water column
 ACFM = Actual cubic feet per minute
 SCFM = Standard cubic feet per minute.
 SCFM = (ACFM) (Applied Absolute Vacuum / Atmospheric Absolute Vacuum)
 ppmv = Parts per million by volume
 # = Pounds
 NM = Not measured
 NA = Not available
 TPHG, Benzene, and MTBE analyzed by EPA Method 8260 respectively from 1 liter tedlar bag samples
 (Rate = Laboratory analytical concentration (ppmv) x wellhead flow rate (scfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)
 Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total
 When constituents are not detected by laboratory analysis, half the detection limit is used in subsequent calculations
italicized TPHg Concentrations are field measured values.
italicized Vacuum and Flow Rate data is estimated. Readings were either not measured or not measurable with available monitoring equipment under set operating conditions.

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Table 3. DTW and Vacuum Influence Data, Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, O

Date/Time	MW-3	MW-4		VEW-7	
	DTW (ft. TOC)	DTW (ft. TOC)	Vacuum (in. WC)	DTW (ft. TOC)	Vacuum (in. WC)
4/18/2005 11:53	3.52	5.44	-	2.73	-
4/19/2005 8:45	3.72	5.24	0.1	2.94	0.0
9:15	-	-	0.0	-	0.0
9:45	-	-	0.0	-	0.0
10:15	-	-	0.0	-	0.0
10:45	-	-	0.0	-	0.0
11:15	-	-	0.0	-	0.0
11:45	-	-	0.1	-	0.1
12:15	-	-	0.0	-	0.0
12:45	3.71	5.17	-	2.87	-
4/20/2005 9:45	3.81	4.91	0.1	3.10	0.0
10:15	-	-	0.1	-	0.0
10:45	-	-	0.0	-	0.0
11:00	-	-	0.0	-	0.0
11:30	-	-	0.0	-	0.0
12:00	-	-	0.0	-	0.0
12:30	-	-	0.0	-	0.1
13:00	3.81	4.92	-	3.11	-
4/21/2005 9:00	3.85	4.91	0.0	3.09	0.0
10:00	-	-	0.0	-	0.0
10:30	-	-	0.0	-	0.0
10:45	-	-	0.0	-	0.0
11:30	-	-	0.0	-	0.0
12:30	-	-	0.0	-	0.0
4/22/2005 8:15	3.85	4.91	-	3.00	-
8:45	-	-	0.0	-	0.0
9:15	-	-	0.0	-	0.0
9:45	-	-	0.0	-	0.0
10:15	-	-	0.0	-	0.0
10:45	-	-	0.0	-	0.0
11:15	-	-	0.0	-	0.0
11:45	-	-	0.0	-	0.0
12:15	-	-	0.0	-	0.0

CAMBRIA

Table 3. DTW and Vacuum Influence Data, Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, O

Date/Time	MW-3	MW-4		VEW-7	
	DTW (ft. TOC)	DTW (ft. TOC)	Vacuum (in. WC)	DTW (ft. TOC)	Vacuum (in. WC)
12:30	-	-	0.0	-	0.0
12:45	3.84	4.89	-	2.97	-
4/24/2005 13:45	3.96	4.86	-	3.24	-
14:15	-	-	0.0	-	0.0
14:30	-	-	0.0	-	0.0
14:45	-	-	0.0	-	0.0
15:00	-	4.86	-	3.24	-

Abbreviations:

DTW = Depth to water

ft. TOC = Feet referenced to top of casing

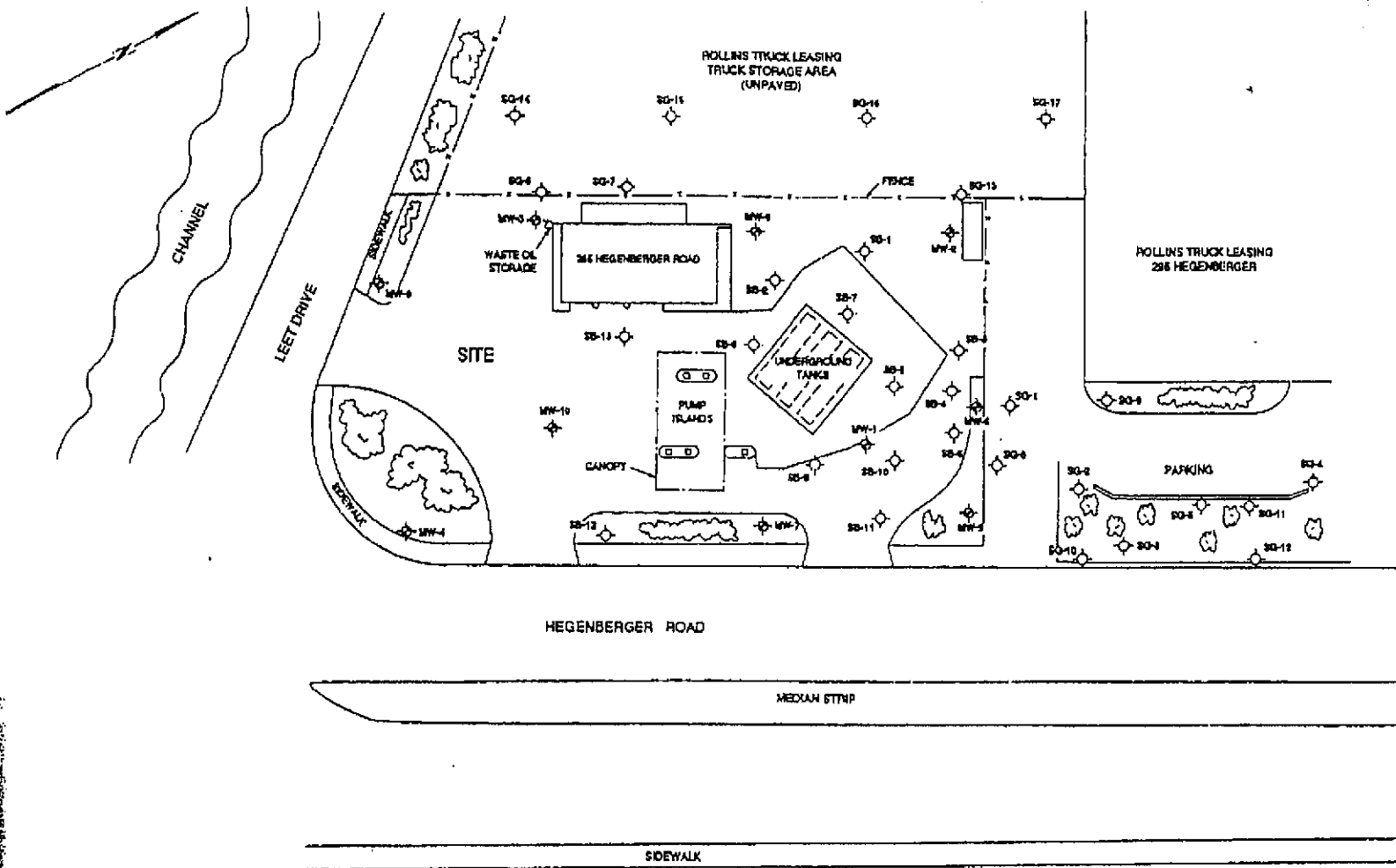
in. WC = Inches of water column

Note: Vacuum influence was not measured in MW-3 because the well screen was submerged throughout interim DPE.

Bold font indicates that the measured DTW is below the top of the well screen.

ATTACHMENT A

Available Boring Logs



LEGEND

- SB-1 SOIL BORING (location approximate)
- SQ-1 OFF SITE SOIL BORING (location approximate)
- MW-1 GROUNDWATER MONITORING WELL



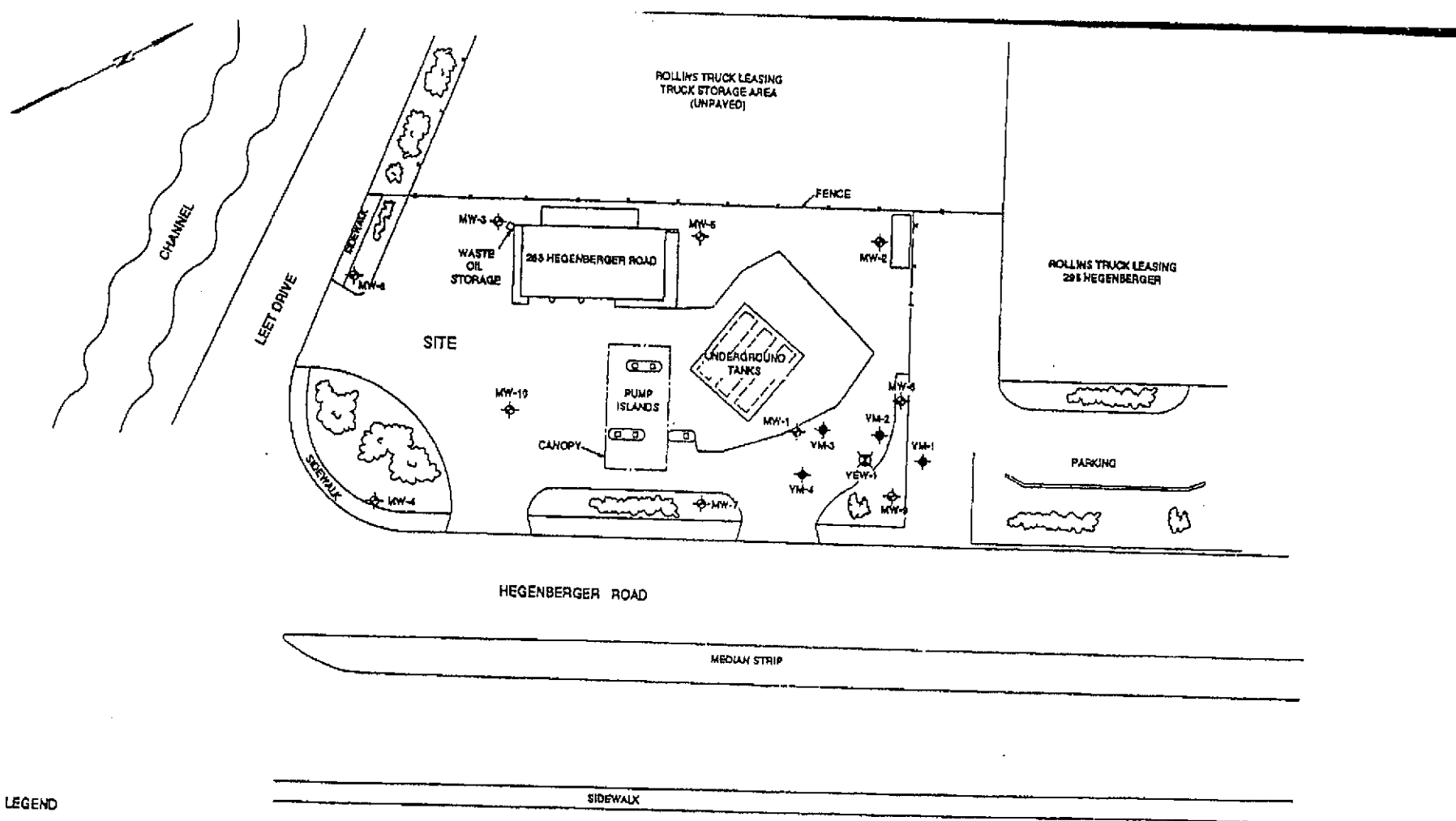
PLOT PLAN

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Scale	AS SHOWN	Project No.	88-44-350-20
Prepared by	CEH	Date	8/24/90
Checked by		Drawing No.	
Approved by	CRC		2

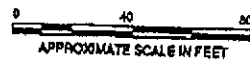


Converse Environmental West



LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- VM-3 VAPOR MONITORING POINT
- VEW-1 VAPOR EXTRACTION WELL



VAPOR EXTRACTION WELL & MONITORING POINT LOCATIONS

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Scale	Project No.
AS SHOWN	02-44-150-20
Prepared by	Date
THW	1/20/02
Checked by	Ordering No.
JFK	
Approved by	
PAF	2

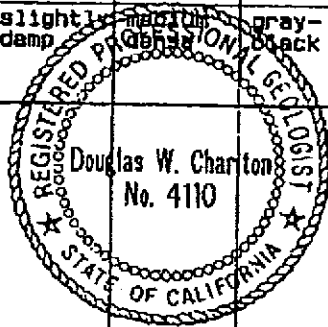


Converse Environmental West

LOG OF BORING NO. MW-1

DATE DRILLED: 2/14/89 ELEVATION: ML TAKEN: 2-14-89 EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS (mg/kg)	TESTS
			[Cross-hatched symbol]				0-2" ASPHALT, 2"-12" BASE ROCK	[Cross-hatched well construction symbol]		
			[Horizontal lines symbol]	dry	firm	brown to black	SANDY SILT CLAYEY SAND and GRAVEL (F11)	[Horizontal lines well construction symbol]		
			[Dotted symbol]	wet	loose	gray-black	CLAYEY fine SAND (Bay Mud) Some gasoline odor	[Dotted well construction symbol]		
5	D	[Water level arrow]	[Dotted symbol]					[Dotted well construction symbol]		
			[Diagonal lines symbol]	moist	soft to medium	gray-black	CLAY (Bay Mud) No gasoline odor	[Diagonal lines well construction symbol]		
10	D		[Diagonal lines symbol]					[Diagonal lines well construction symbol]		
			[Diagonal lines symbol]	slightly moist to damp	medium	gray-black	SANDY CLAY Trace of gravel	[Diagonal lines well construction symbol]		
15	D		[Diagonal lines symbol]					[Diagonal lines well construction symbol]		
							Bottom of Hole at 16.5 ft.			
20										



SHELL OIL COMPANY
 258 Hegenberger Road
 Oakland, California

Project No.
 88-44-359-01



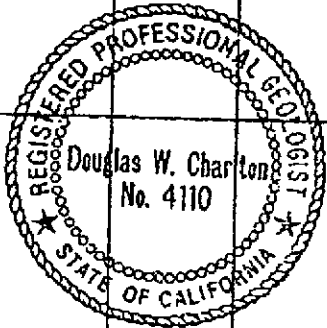
Converse Environmental Consultants California

Drawing No.
 A-3

LOG OF BORING NO. MW-2

DATE DRILLED: 2/15/89 ELEVATION: ML TAKEN: 2-15-89 EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS kg/kg	TESTS
			[Cross-hatched symbol]		hard		0-2" ASPHALT; 2-6" BASEROCK			
			[Vertical lines symbol]	dry	medium dense	brown	SILTY SAND and GRAVEL (F11)	SM/GM		
			[Diagonal lines symbol]	slightly damp	soft to medium	gray	SANDY CLAY (F11)	CL		
5	D	[Water level arrow]	[Dotted symbol]	wet	soft	dark gray	CLAYEY SAND (Bay Mud) Trace of gravel	SP/CL		
			[Diagonal lines symbol]				SANDY CLAY (Bay Mud)	CL		
10	D		[Diagonal lines symbol]	moist	soft, firmer with depth	gray	CLAY (Bay Mud)	CH		
15	D		[Diagonal lines symbol]				SANDY CLAY			
20							Bottom of Hole at 16.5 ft.			



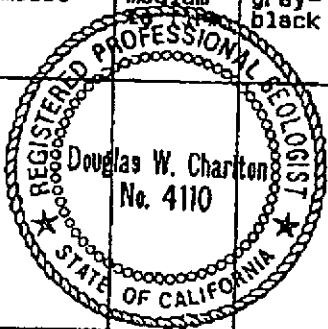
SHELL OIL COMPANY
 258 Hegenberger Road
 Oakland, California

Project No.
 88-44-359-01

LOG OF BORING NO. MW-3

DATE DRILLED: 2/14/89 ELEVATION: ML TAKEN: 2-14-89 EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS (mg/kg)	TESTS
			[Cross-hatched symbol]		hard		0-2" ASPHALT; 2-12" BASE ROCK	[Cross-hatched well construction symbol]		
			[Dotted symbol]	moist	medium dense	brown to black	CLAYEY SAND and GRAVEL (F111)	[Dotted well construction symbol]		
			[Diagonal lines symbol]					[Diagonal lines well construction symbol]		
5	D	[Water level arrow]	[Dotted symbol]	moist	soft	brown	SILTY SAND and GRAVEL (F111)	[Dotted well construction symbol]		
			[Diagonal lines symbol]	wet	soft	black	CLAYEY SAND (F111)	[Diagonal lines well construction symbol]		
			[Diagonal lines symbol]				SILTY CLAY (Bay Mud) Some fine sand	[Diagonal lines well construction symbol]		
10	D		[Diagonal lines symbol]	sat.	soft, firmer with depth		CLAY (Bay Mud)	[Diagonal lines well construction symbol]		
			[Diagonal lines symbol]					[Diagonal lines well construction symbol]		
15	D		[Diagonal lines symbol]	moist	medium	gray-black		[Diagonal lines well construction symbol]		
			[Diagonal lines symbol]					[Diagonal lines well construction symbol]		
							Bottom of Hole at 16.5 ft.			
20										



SHELL OIL COMPANY
 258 Hegenberger Road
 Oakland, California

Project No.
 88-44-359-01



Converse Environmental Consultants California

Drawing No.
 A-5

LOG OF BORING NO. MW-4

DATE DRILLED: 4/28/89 ELEVATION: ML TAKEN: 4-28-89 EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLDS/FT.	T.P.H Mg/Kg	TESTS
				moist	medium	brown	Import Top Soil				
				moist	medium	brown	CLAYEY SAND and rock fragment (Fill) SC				
0				moist	medium	brown-gray	Mix SILTS and SANDS Trace dry Bay Mud ML-SH		7		
5				very moist			Lenses and pockets silts, sand, clayey silt, trace organics		12		
0				wat	loose		Lenses and layers of silts, fine sands		3		
0				very moist	soft	light gray	BAY MUD CH		1		
10						dark gray					
0					medium		Calcareous, trace vertical organics		8		
0					stiff				20		
0						gray	Calcareous SILTY CLAY CL				
15							Bottom of Hole at 14 ft.				



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-01



Converse Environmental Consultants California

Drawing No.
A-1

LOG OF BORING NO. MW-6

DATE DRILLED: 4/28/89 ELEVATION: N/A ML TAKEN: 4-28-89 EQUIPMENT: Hollow Stem Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLDG/FT.	I.P.H Hg/Kg	TESTS
				moist	loose	brown	Import Top Soil				
				moist	loose	yellow-brown	CLAYEY SAND and rock fragments Trace cobble size fragments	SC			
5	D						Sandy clay, trace rock fragment				
				very moist	soft	gray	CLAYEY SILTS	ML	23		
							Layer pea gravel possible floating product				
							Fine to medium sand		8		
							Layer coarse sand, pea gravel				
							Fine to medium SAND	SP-ML	7		
10	D			wet			Clayey silt, trace fine sands		1		
							Fine sandy silts				
							Bay Mud, trace organics	CH	4		
15							Bottom of Hole at 12 ft.		10		



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-01



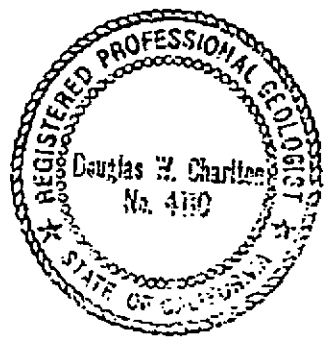
Converse Environmental Consultants California

Drawing No.
A-3

LOG OF BORING NO. MW-8

DATE DRILLED: 4/28/89 ELEVATION: ML TAKEN: 4-29-89 EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	CL	SC	ML	SM	CH	WELL CONSTRUCTION	BLOWS/FT.	T.P.H. Mg/Kg	TESTS
				moist	medium	brown	Import Top Soil Silt and Clay with fine Sand	CL								
				moist	medium dense	yellow-brown	CLAYEY SAND With rock fragments (Fill)		SC							
						brown	SANDY CLAY With rock fragments (Fill)									
5				moist	medium dense	gray	CLAYEY SILT Pockets and lenses of silts, fine sands, and clayey silts			ML				11		
10				wet	loose	dk. gray	SILTY Fine SAND				SM			5		
				wet	soft	gray	BAY MUD Trace organics					CH		5		
						dark gray								5		
15							Bottom of Hole at 12 ft.									



SHELL OIL COMPANY
 258 Hegenberger Road
 Oakland, California


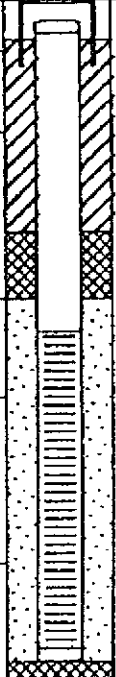







Project No.
 88-44-359-01

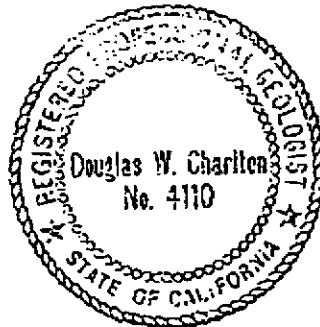


Converse Environmental Consultants California

Drawing No.
 A-5

LOG OF BORING NO. MW-9

DATE DRILLED: 7-13-89		ELEVATION:		ML TAKEN: 7-13-89		EQUIPMENT: 6-1/4" x 10" Hollow Auger				
DEPTH (ft)	SAMPLE	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOKS/FT.	O.V.N. (ppm)	T.P.H. (ppm)
			slightly moist to moist	medium	brown	Crush ROCK 2" Plastic, (topsoil)				
			moist	stiff	gray	Silty CLAY Clayey SILT ML/CL (topsoil)				
1			s. moist	medium	light gray	Clayey SILT		ML	7	320
5			moist			Strong odor			8	450
2			wet		gray	Fine Sandy SILT	ML			
						Silty SAND				
3			wet		mottled gray	Bay Mud (tidial zone)	CH/OH	6	112	
10						Trace calcareous with depth		5	40	
						Bottom of Hole at 10.5 ft.				
15										
20										



SHELL OIL COMPANY
 285 Hegenberger Road
 Oakland, California

Project No.
 88-44-359-01



Converse Environmental Consultants California

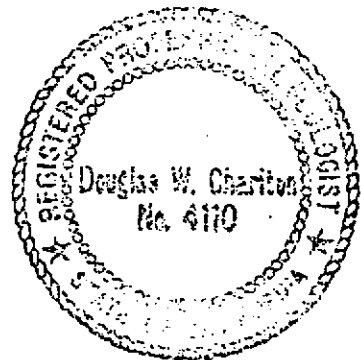
Drawing No.
 A-7

LOG OF BORING NO. MW-10

DATE DRILLED: 11-16-89 ELEVATION: WL TAKEN: n/a EQUIPMENT: 3 3/4" x 8" Hollow-Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOCKS/FT.	O.V.M. (ppm)	T.P.H. (ppm)	
5	1	14	[Symbol]	sl moist	m dense	gray	GRAVEL sub-base. (Fill) GM	[Well Construction Diagram]	0	35		
			[Symbol]	moist		yellow brown	Silty SAND. (Fill) ML					
			[Symbol]			medium	green					Sandy CLAY, trace Gravel. SC
			[Symbol]				black					Silty CLAY, trace Gravel. (Fill) CL
			[Symbol]									Odor.
			[Symbol]									
			[Symbol]	very moist	medium dense	dark gray	Silty SAND, trace Clay. SM					
			[Symbol]									
			[Symbol]	wet	soft	gray	Silty CLAY, wet Sandy SP lenses. Green staining. Odor. CL					
			[Symbol]		soft	black	Silty CLAY, trace organincs. Bay Mud. CH					
[Symbol]			black mottled gray									
10												
15												
20												

Total Depth of Boring: 13 ft Below Ground Surface.



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California


Project No.
88-44-359-01

LOG OF BORING NO. VEW

Start: 11/21/91
 Completion: 11/21/91
 Water Measure: N/A

Geologist: P. A. Fuller
 Assistant Geol.: N/A
 Drilling Co.: Kvilhaug

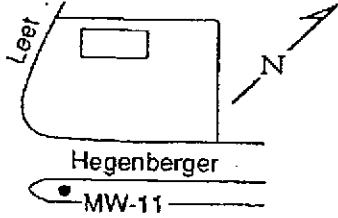
Driller/Helper:
 Drilling Method: Hand Auger
 Auger/Bit Dia.:

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
			[Symbol: Solid black]	[Symbol: Hatched]	Asphalt and Base					
			[Symbol: Diagonal lines /]	[Symbol: Hatched]	Silty Clay	CL	slightly moist	gray/black		
			[Symbol: Diagonal lines \]	[Symbol: Hatched]	Sandy Clay	CL	moist	gray/black		
5		[Symbol: Triangle]	[Symbol: Dotted]	[Symbol: Hatched]	Clayey pebbly Sand	SC	very moist	black		
10					Total Depth of Boring: 7 ft. Casing: Blank 4" ID Sch. 40 PVC Screen: Slotted 4" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
15										
20										

SHELL OIL COMPANY
 285 Hegenberger Road
 Oakland, California

Project No.
 88-44-359-20

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP INC.

WELL NO. MW-11
PAGE 1 OF 1

PROJECT NO. 305-79.01
 LOGGED BY: CM
 DRILLER: GREGG
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12

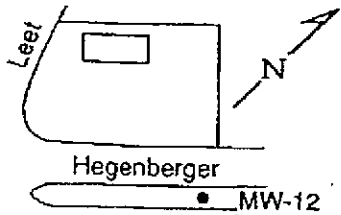
CLIENT: SHELL
 DATE DRILLED: 6-8-93
 LOCATION: 285 Hegenberger Rd.
 HOLE DIAMETER: 10"
 HOLE DEPTH: 15.5'
 WELL DIAMETER: 4"
 WELL DEPTH: 14'
 CASING STICKUP: NA

NORTHING EASTING ELEVATION
 847.72 998.93 10.56 TOC

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
				1			SM	SILTY SAND	
				2			GM	SANDY GRAVEL - FILL: strong brown; angular large chunks of brick and rock; some rusted metal.	
				3					
		Mst	2	13 25	4			SM	SILTY SAND: dark brown; 25-30% silt; fine to medium sand; no product odor.
					5			SC	CLAYEY SAND: dark brown; 20-25% clay; fine sand.
					6			CH	CLAY: black; high plasticity; mottled with grey patches; very stiff; no product odor.
					7				
					8				
		Sat	2	2 5	9				
					10				@10': grey to black; high plasticity; large 3-5 mm open rootholes and cracks filled with water; iron oxide stain along fractures; reeds and roots; firm; no product odor.
					11				
					12				
		Sat	0	3 11	13				
					14				@14': dark grey; high plasticity; water filled rootholes; roots; stiff; no product odor.
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

BOTTOM OF BORING AT 15.5'

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-12
PAGE 1 OF 1

PROJECT NO. 305-79.01
 LOGGED BY: CM
 DRILLER: GREGG
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12

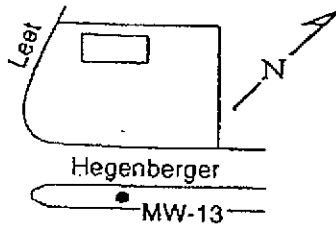
CLIENT: SHELL
 DATE DRILLED: 6-8-93
 LOCATION: 285 Hegenberger Rd.
 HOLE DIAMETER: 10"
 HOLE DEPTH: 15.5'
 WELL DIAMETER: 4"
 WELL DEPTH: 15'
 CASING STICKUP: NA

NORTHING EASTING ELEVATION
 995.66 1088.10 9.56TOC

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT SAND BENTONITE ▼				1	█			SM	SILTY SAND
		Dp		2	█		○	GM	SANDY GRAVEL - FILL: large angular chunks of iron oxide stained chert.
				3	█		○		
		Mst	3	4	█		○	ML	CLAYEY SILT: sandy; dark greyish brown; 20-25% clay; 15-20% very fine sand; iron oxide staining along tiny roots; no product odor.
				5	█		○		
				6	█		○		
				7	█		○		
		Sat	4	8	█		○	CH	CLAY: black; high plasticity; roots; rootholes; rootholes filled with water; soft; no product odor.
				9	█		○		
				10	█		○		
				11	█		○		
				12	█		○		
				13	█		○		
		Sat	0	14	█		○		@12.5': greenish grey; high plasticity; 0-5% silt; calcite nodules; roots and water filled rootholes; stiff; no product odor.
				15	█		○		
			16	█		○			
			17	█		○			
			18	█		○			
			19	█		○			
			20	█		○			
			21	█		○			
			22	█		○			

BOTTOM OF BORING AT 15.5'

LOCATION MAP



ACIFIC ENVIRONMENTAL GROL, INC.

WELL NO. MW-13
PAGE 1 OF 1

PROJECT NO. 305-79.01
 LOGGED BY: CM
 DRILLER: GREGG
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12

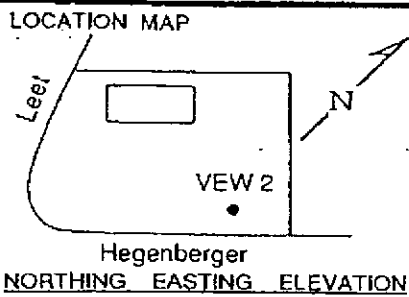
CLIENT: SHELL
 DATE DRILLED: 6-10-93
 LOCATION: 285 Hegenberger Rd.
 HOLE DIAMETER: 10"
 HOLE DEPTH: 15.5'
 WELL DIAMETER: 4"
 WELL DEPTH: 15'
 CASING STICKUP: NA

NORTHING EASTING ELEVATION
 914.88 1039.19 10.10 TOC

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
GROUT SAND BENTONITE SAND				1			SM	SILTY SAND	
				2			GW	SANDY GRAVEL - FILL: large angular chunks of iron oxide stained chert; no product odor.	
				3					
				4			SC	CLAYEY SAND: silty; olive brown; 30-35% clay; 20-25% silt; very fine sand; roots; loose; no product odor.	
		Mst	0	8	4				
					5				
					6				
					7				
					8				
		Mst	0	3	3			CL	CLAY: dark greyish brown; moderate plasticity; 10-15% silt; iron oxide stain along roots; no product odor.
					9				
					10			CH	CLAY: black; high plasticity; roots; odor of decaying organics; firm; no product odor.
					11				
					12				
					13				
	Mst	0	8	6					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					

CLAY: dark greenish grey; high plasticity; calcite nodules and caliche; roots; stiff; no product odor.

BOTTOM OF BORING AT 15.5'



CIFIC ENVIRONMENTAL GROU NC.

WELL NO. VEW 2
PAGE 1 OF 1

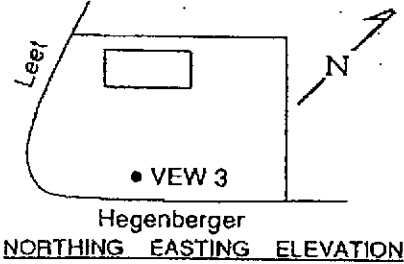
PROJECT NO. 305-79.01
 LOGGED BY: CM
 DRILLER: GREGG
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12

CLIENT: SHELL
 DATE DRILLED: 6-9-93
 LOCATION: 285 Hegenberger Rd
 HOLE DIAMETER: 10"
 HOLE DEPTH: 8.5'
 WELL DIAMETER: 2"
 WELL DEPTH: 8.5' and 6.5'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
	Dp			1			SC	ASPHALT 2" CLAYEY SAND - FILL: gravelly; strong brown; 20-25% clay; fine to coarse sand; 15-20% angular gravel.	
	Mst			2			CL	CLAY: dark greenish grey to black; moderate plasticity; moderate product odor becoming strong product odor at 3 feet; roots.	
	Wet	100	5	3			SM	SILTY SAND: dark grey; 30-35% silt; very fine sand; roots; loose; strong product odor.	
	Mst		4	4			CH	CLAY: black; high plasticity; roots; strong product odor.	
	Sal	80	1	5			ML	CLAYEY SILT: with sand lenses; dark grey to black; moderate plasticity; horizontal laminae; roots; sand lenses of fine to medium sand up to 2 inches thick; soft; strong product odor.	
			4	6			CL	CLAY: dark grey; moderate plasticity; moderate product odor.	
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BOTTOM OF BORING AT 8.5'

LOCATION MAP



ACIFIC ENVIRONMENTAL GRO, INC.

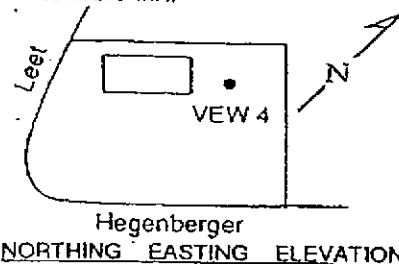
WELL NO. VEW 3
PAGE 1 OF 1

PROJECT NO. 305-79.01
 LOGGED BY: CM
 DRILLER: GREGG
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12

CLIENT: SHELL
 DATE DRILLED: 6-10-93
 LOCATION: 285 Hegenberger Road
 HOLE DIAMETER: 10"
 HOLE DEPTH: 10'
 WELL DIAMETER: 2"
 WELL DEPTH: 8.5' and 6'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
	Mst			1			GW	ASPHALT 2" SANDY GRAVEL - FILL: strong brown.
				2			CL	SILTY CLAY: black; moderate plasticity; 20-25% silt; roots; no product odor.
				3			CH	
				4			CH	CLAY: black; high plasticity; roots; stiff; strong product odor.
	Mst	120	8	5			SM	
				6			CH	
	Sal	80	2	7			SM	SILTY SAND: dark blue grey; 5-10% clay; 15-20% silt; very fine sand; roots; separate phase hydrocarbon sheen along roots; soft; strong product odor.
				8			CH	
	Mst	15	2	9			CH	CLAY: dark greenish grey to black; high plasticity; abundant roots; at 9.5'; 3-4" thick peat horizon; soft; moderate product odor.
				10			CH	
			11					BOTTOM OF BORING AT 10'
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			21					
			22					

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP INC.

WELL NO. VEW 4
PAGE 1 OF 1

PROJECT NO. 305-79.01
 LOGGED BY: CM
 DRILLER: GREGG
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12

CLIENT: SHELL
 DATE DRILLED: 6-9-93
 LOCATION: 285 Hegenberger Rd.
 HOLE DIAMETER: 10"
 HOLE DEPTH: 9.5"
 WELL DIAMETER: 2"
 WELL DEPTH: 9' and 6.5'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
				1			SC	ASPHALT 2" CLAYEY SAND - FILL: gravelly; strong brown; 25-30% clay; fine to medium sand; 15-20% gravel; no product odor.	
				2			CL	CLAY: dark grey to black; moderate plasticity; faint product odor.	
				3			CL/SW	SILTY SAND with CLAY: (interbedded); silty sand: dark grey; 15-20% silt; fine to medium sand; faint product odor; clay: dark grey; moderate plasticity; some rootlets; very stiff; faint product odor.	
		Wet	14	12	4			CL/SW	
				12	5			CL/SW	
					6			CL/SW	
		Sat	7	7	7			CL/SW	@7.5': firm; faint product odor.
				4	8			CL/SW	
		Sat	0	8	9			SM	SILTY SAND: dark grey; 15-20% silt; very fine sand; faint to no product odor.
				4	10			ML	CLAYEY SILT: dark grey; 25-30% clay; 10-15% very fine sand; firm; faint to no product odor.
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BOTTOM OF BORING AT 9.5'

ATTACHMENT B

Historical Groundwater Monitoring Data

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

May 9, 2005

Denis Brown
Shell Oil Products US
20945 South Wilmington Ave.
Carson, CA 90810

Second Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Monitoring performed on April 13, 2005

Groundwater Monitoring Report **050413-MD-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/cl

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	2/16/1989	99,000	NA	NA	20,000	23,000	5,700	2,300	NA	NA	NA	NA	NA	NA	6.64	3.83	2.81	NA
MW-1	5/23/1989	48,000	11,000	NA	4,200	5,200	1,200	7,700	NA	NA	NA	NA	NA	NA	6.64	3.59	3.05	NA
MW-1	8/3/1989	63,000	11,000	NA	5,500	5,500	3,200	9,500	NA	NA	NA	NA	NA	NA	6.64	4.04	2.60	NA
MW-1	12/15/1989	30,000	11,000	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	6.64	4.22	2.42	NA
MW-1	2/7/1990	93,000	10,000	NA	13,000	9,600	2,400	14,000	NA	NA	NA	NA	NA	NA	6.64	4.60	2.04	NA
MW-1	4/18/1990	55,000	8,700	NA	14,000	8,400	3,200	13,000	NA	NA	NA	NA	NA	NA	6.64	4.02	2.62	NA
MW-1	7/23/1990	73,000	3,600	NA	16,000	7,400	2,800	15,000	NA	NA	NA	NA	NA	NA	6.64	4.17	2.47	NA
MW-1	9/27/1990	45,000	1,700	NA	8,000	4,300	2,000	11,000	NA	NA	NA	NA	NA	NA	6.64	4.60	2.04	NA
MW-1	1/3/1991	43,000	3,100	NA	10,000	3,400	1,900	11,000	NA	NA	NA	NA	NA	NA	6.64	4.88	1.76	NA
MW-1	4/10/1991	67,000	1,800	NA	20,000	9,600	3,500	16,000	NA	NA	NA	NA	NA	NA	6.64	3.55	3.09	NA
MW-1	7/12/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.64	3.97	2.67	NA
MW-1	10/8/1991	55,000	7,400	NA	18,000	3,500	2,300	8,600	NA	NA	NA	NA	NA	NA	6.64	4.26	2.38	NA
MW-1	2/6/1992	48,000	15,000 a	NA	12,000	2,800	1,900	7,400	NA	NA	NA	NA	NA	NA	6.64	4.94	1.70	NA
MW-1	5/4/1992	71,000	10,000 a	NA	16,000	6,000	3,100	14,000	NA	NA	NA	NA	NA	NA	6.64	3.58	3.06	NA
MW-1	7/28/1992	68,000	18,000 a	NA	21,000	5,500	3,400	15,000	NA	NA	NA	NA	NA	NA	6.64	3.91	2.73	NA
MW-1 (D)	7/28/1992	70,000	19,000 a	NA	17,000	5,000	2,700	13,000	NA	NA	NA	NA	NA	NA	6.64	3.91	2.73	NA
MW-1	10/27/1992	53,000	1,300	NA	18,000	3,700	3,400	11,000	NA	NA	NA	NA	NA	NA	6.64	4.79	1.85	NA
MW-1 (D)	10/27/1992	48,000	2,500 a	NA	17,000	3,600	3,100	9,900	NA	NA	NA	NA	NA	NA	6.64	4.79	1.85	NA
MW-1	1/14/1993	84,000	2,200 a	NA	17,000	5,400	3,000	13,000	NA	NA	NA	NA	NA	NA	6.64	3.39	3.25	NA
MW-1	4/23/1993	100,000	2,300 a	NA	18,000	7,800	4,700	20,000	NA	NA	NA	NA	NA	NA	6.64	2.67	3.97	NA
MW-1	7/20/1993	41a	3,100 a	NA	12,000	870	1,500	4,400	NA	NA	NA	NA	NA	NA	9.50	3.48	6.02	NA
MW-1	10/18/1993	33,000	8,100 a	NA	14,000	1,200	2,000	4,900	NA	NA	NA	NA	NA	NA	9.50	4.20	5.30	NA
MW-1 (D)	10/18/1993	44,000	3,700 a	NA	14,000	1,200	2,000	4,900	NA	NA	NA	NA	NA	NA	9.50	4.20	5.30	NA
MW-1	1/6/1994	71,000	9,000 a	NA	9,000	870	1,600	5,100	NA	NA	NA	NA	NA	NA	9.50	4.13	5.37	NA
MW-1	4/12/1994	42,000	5,900	NA	6,600	170	2,300	4,700	NA	NA	NA	NA	NA	NA	9.50	2.42	7.08	NA
MW-1 (D)	4/12/1994	40,000	4,700	NA	6,300	180	2,000	4,400	NA	NA	NA	NA	NA	NA	9.50	2.42	7.08	NA
MW-1	7/25/1994	13,000	7,000 a	NA	4,400	110	460	1,400	NA	NA	NA	NA	NA	NA	9.50	3.37	6.13	NA
MW-1	10/25/1994	19,000	3,900	NA	5,500	210	880	2,000	NA	NA	NA	NA	NA	NA	9.50	4.07	5.43	NA
MW-1	1/9/1995	37,000	8,600 a	NA	6,700	800	2,800	8,900	NA	NA	NA	NA	NA	NA	9.50	2.65	6.85	NA
MW-1	4/11/1995	26,000	5,500	NA	4,700	270	1,800	3,400	NA	NA	NA	NA	NA	NA	9.50	2.38	7.12	NA
MW-1	7/18/1995	57,000	7,000	NA	7,500	880	4,100	11,000	NA	NA	NA	NA	NA	NA	9.50	3.49	6.01	NA
MW-1 (D)	7/19/1995	46,000	6,600	NA	6,000	670	3,200	7,500	NA	NA	NA	NA	NA	NA	9.50	3.49	6.01	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	10/18/1995b	37,000	3,200	NA	5,400	450	2,600	7,400	10,000	NA	NA	NA	NA	NA	9.50	NA	NA	NA
MW-1	1/9/1996	32,000	NA	NA	3,000	240	1,900	3,500	6,100	NA	NA	NA	NA	NA	9.50	2.95	6.55	NA
MW-1	4/2/1996	30,000	NA	NA	3,100	260	2.0	3,900	8.0	NA	NA	NA	NA	NA	9.50	2.00	7.50	NA
MW-1	10/3/1996	18,000	2,800	NA	3,000	120	1,200	1,700	7,500	NA	NA	NA	NA	NA	9.50	3.21	6.29	2.2
MW-1	4/3/1997	29,000	3,000	NA	2,300	170	2,300	2,900	4,300	NA	NA	NA	NA	NA	9.50	2.84	6.66	2.2
MW-1	10/8/1997	22,000	3,600	NA	920	71	2,400	2,200	820	NA	NA	NA	NA	NA	9.50	2.58	6.92	1.5
MW-1	6/10/1998	13,000	2,900	NA	860	<100	1,300	500	29,000	32,000	NA	NA	NA	NA	9.50	2.67	6.83	0.5/0.5
MW-1 (D)	6/10/1998	9,400	2,100	NA	870	<50	1,300	520	28,000	NA	NA	NA	NA	NA	9.50	2.67	6.83	0.5/0.5
MW-1	12/30/1998	6,930	1,540	NA	714	52.7	243	<25.0	9,000	NA	NA	NA	NA	NA	9.50	4.68	4.82	1.6/1.4
MW-1 *	6/25/1999	12,600	NA	NA	1,110	44.7	1,340	710	6,080	NA	NA	NA	NA	NA	9.50	2.86	6.64	1.2/2.1
MW-1	12/28/1999	3,260	1,170	NA	527	14.0	50.7	40.3	5,430	7,060b	NA	NA	NA	NA	9.50	3.23	6.27	1.4/1.8
MW-1	5/31/2000	6,820	2,050	NA	1,620	<50.0	116	<50.0	6,070	4,710	NA	NA	NA	NA	9.50	2.39	7.11	0.98/2.27
MW-1	10/17/2000	2,530	995 a	NA	388	<10.0	16.4	22.1	917	NA	NA	NA	NA	NA	9.50	2.05	7.45	4.0/3.1
MW-1	5/1/2001	12,300	1,510	NA	1,480	19.5	205	111	4,160	NA	NA	NA	NA	NA	9.50	3.55	5.95	1.6/1.3
MW-1	11/5/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.85 e	4.43	5.42	0.4
MW-1	11/7/2001	3,000	<1,000	NA	290	6.0	11	15	NA	870	NA	NA	NA	NA	9.85	4.00	5.85	2.1/1.4
MW-1	5/1/2002	11,000	<2,000	NA	2,100	29	180	68	NA	1,500	NA	NA	NA	NA	9.85	3.14	6.71	3.4/2.3
MW-1	7/16/2002	7,400	<1,500	NA	1,200	22	37	24	NA	1,900	NA	NA	NA	NA	9.85	3.69	6.16	0.9/0.8
MW-1	10/17/2002	4,600	<2,000	NA	810	16	68	31	NA	1,600	NA	NA	NA	NA	9.44	4.76	4.68	0.8/1.2
MW-1	1/21/2003	11,000	<7,000	NA	1,100	28	210	53	NA	1,100	NA	NA	NA	NA	9.44	3.50	5.94	0.3/0.7
MW-1	5/1/2003	13,000	4,900 a	NA	1,500	33	260	68	NA	1,700	NA	NA	NA	NA	9.44	3.04	6.40	NA
MW-1	7/17/2003	10,000	3,200 a.f	NA	2,400	<50	250	<100	NA	3,100	NA	NA	NA	NA	9.44	3.92	5.52	NA
MW-1	10/2/2003	Well Inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.44	NA	NA	NA
MW-1	10/16/2003	8,500	3,700 a	NA	1,100	26	140	41	NA	1,700	NA	NA	NA	NA	9.44	4.65	4.79	NA
MW-1	1/5/2004	11,000	4,300 a	NA	1,600	29	200	45	NA	1,400	NA	NA	NA	NA	9.44	2.39	7.05	NA
MW-1	4/1/2004	10,000	3,700 a	NA	1,500	28	330	59	NA	630	NA	NA	NA	NA	9.44	3.06	6.38	NA
MW-1	8/2/2004	9,100	4,600 a	<1,000	1,700	17	200	24	NA	1,700	<40	<40	<40	2,900	9.44	4.50	4.94	NA
MW-1	11/2/2004	9,100	3,100 g	<500	2,100	50	140	70	NA	680	NA	NA	NA	NA	9.44	3.08	6.36	NA
MW-1	1/10/2005	21,000	3,600 g	<500	2,700	31	1,000	880	NA	1,000	NA	NA	NA	NA	9.44	2.43	7.01	NA
MW-1	4/13/2005	8,800	2,500 a	740	1,500	20	180	130	NA	430	NA	NA	NA	NA	9.44	2.44	7.00	NA
MW-2	2/16/1989	20,000	NA	NA	200	900	2,700	9,600	NA	NA	NA	NA	NA	NA	7.68	5.33	2.35	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	5/23/1989	1,500	1,600	NA	4.3	2.9	11	150	NA	NA	NA	NA	NA	NA	7.68	5.23	2.45	NA
MW-2	8/3/1989	15,000	7,400	NA	75	120	850	2,200	NA	NA	NA	NA	NA	NA	7.68	6.03	1.65	NA
MW-2	12/15/1989	5,000	2,600	NA	52	13	4.1	290	NA	NA	NA	NA	NA	NA	7.68	6.43	1.25	NA
MW-2	2/7/1990	13,000	4,800	NA	32	34	230	640	NA	NA	NA	NA	NA	NA	7.68	5.82	1.86	NA
MW-2	4/18/1990	9,800	3,200	NA	33	19	460	1,700	NA	NA	NA	NA	NA	NA	7.68	5.88	1.80	NA
MW-2	7/23/1990	9,600	2,700	NA	41	27	540	940	NA	NA	NA	NA	NA	NA	7.68	6.05	1.63	NA
MW-2	10/1/1990	390	1,600	NA	3.4	15	8.5	25	NA	NA	NA	NA	NA	NA	7.68	NA	NA	NA
MW-2	1/3/1991	1,800	830	NA	56	4.4	4.8	92	NA	NA	NA	NA	NA	NA	7.68	6.82	0.86	NA
MW-2	4/10/1991	1,900	280	NA	ND	28	140	490	NA	NA	NA	NA	NA	NA	7.68	4.80	2.88	NA
MW-2	7/12/1991	8,100	1,100	NA	89	66	350	930	NA	NA	NA	NA	NA	NA	7.68	5.70	1.98	NA
MW-2	10/8/1991	1,400	2,600	NA	5.1	1.5	36	270	NA	NA	NA	NA	NA	NA	7.68	6.40	1.28	NA
MW-2	2/6/1992	2,000	5,400 a	NA	7.8	2.5	130	210	NA	NA	NA	NA	NA	NA	7.68	6.40	1.28	NA
MW-2	5/4/1992	21	1,000	NA	ND	ND	300	960	NA	NA	NA	NA	NA	NA	7.68	4.68	3.00	NA
MW-2	7/28/1992	2,100	830 a	NA	7.7	3.3	130	310	NA	NA	NA	NA	NA	NA	7.68	5.86	1.82	NA
MW-2	10/27/1992	1,100	530	NA	16	3.1	4.5	25	NA	NA	NA	NA	NA	NA	7.68	6.96	0.72	NA
MW-2	1/14/1993	290	170 a	NA	5.2	3.1	8.4	21	NA	NA	NA	NA	NA	NA	7.68	4.12	3.56	NA
MW-2	4/23/1993	2,400	1,200 a	NA	ND	ND	210	610	NA	NA	NA	NA	NA	NA	7.68	3.84	3.84	NA
MW-2	7/20/1993	440	130	NA	1.7	1.7	15	38	NA	NA	NA	NA	NA	NA	10.55	5.17	5.38	NA
MW-2	10/18/1993	2,100	1,600 a	NA	ND	ND	90	110	NA	NA	NA	NA	NA	NA	10.55	6.20	4.35	NA
MW-2	1/6/1994	1.9a	130	NA	ND	6.7	7.1	12	NA	NA	NA	NA	NA	NA	10.55	5.39	5.16	NA
MW-2	4/12/1994	120	130	NA	ND	ND	3.4	4.3	NA	NA	NA	NA	NA	NA	10.55	4.72	5.83	NA
MW-2	7/25/1994	0.18a	280 a	NA	5.3	ND	6.2	8.2	NA	NA	NA	NA	NA	NA	10.55	5.44	5.11	NA
MW-2	10/25/1994	170	400	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.55	6.73	3.82	NA
MW-2	1/9/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.55	4.34	6.21	NA
MW-2	4/11/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.55	3.72	6.83	NA
MW-2	7/18/1995	250	160	NA	2.8	0.5	12	13	NA	NA	NA	NA	NA	NA	10.55	4.91	5.64	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	5.88	4.67	NA
MW-2	1/9/1996	790	130	NA	5.1	1.5	2.4	4.6	1,400	NA	NA	NA	NA	NA	10.55	4.75	5.80	NA
MW-2	4/2/1996	260	NA	NA	<2	<2	13	6.9	540	NA	NA	NA	NA	NA	10.55	3.25	7.30	NA
MW-2	10/3/1996	<2,000	620	NA	<20	<20	<20	<20	13,000	NA	NA	NA	NA	NA	10.55	5.27	5.28	2.3
MW-2	4/3/1997	<1,000	190	NA	<10	<10	<10	<10	2,800	NA	NA	NA	NA	NA	10.55	3.99	6.56	2.2
MW-2	10/8/1997	<5,000	1,100	NA	<50	<50	<50	<50	d	NA	NA	NA	NA	NA	10.55	5.03	5.52	1.6

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	6/10/1998	120	310	NA	1.7	<1.0	<1.0	<1.0	3,800	NA	NA	NA	NA	NA	10.55	4.11	6.44	0.7/0.6
MW-2	12/30/1998	<5,000	1,050	NA	<50.0	<50.0	<50.0	<50.0	12,100	15,300	NA	NA	NA	NA	10.55	4.76	5.79	1.3/1.2
MW-2 *	6/25/1999	<1,000	NA	NA	<10.0	<10.0	<10.0	<10.0	7,570	NA	NA	NA	NA	NA	10.55	4.63	5.92	2.3/2.5
MW-2	12/28/1999	228	446	NA	4.54	<0.500	<0.500	<0.500	4,260	NA	NA	NA	NA	NA	10.55	4.95	5.60	2.1/2.4
MW-2	5/31/2000	597	187	NA	19.3	<0.500	0.860	<0.500	2,480	NA	NA	NA	NA	NA	10.55	4.06	6.49	1.8/2.7
MW-2	10/17/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	NA	NA	NA
MW-2	5/1/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	NA	NA	NA
MW-2	11/5/2001	<500	610	NA	<5.0	<5.0	<5.0	<5.0	NA	1,800	NA	NA	NA	NA	10.55	6.12	4.43	0.6/1.1
MW-2	5/1/2002	440	<50	NA	<2.5	<2.5	<2.5	<2.5	NA	1,300	NA	NA	NA	NA	10.55	3.85	6.70	6.2/0.9
MW-2	7/16/2002	<500	250	NA	<5.0	<5.0	<5.0	<5.0	NA	2,100	NA	NA	NA	NA	10.55	4.56	5.99	0.9/1.3
MW-2	10/17/2002	280	240	NA	<1.0	<1.0	<1.0	<1.0	NA	270	NA	NA	NA	NA	10.10	5.90	4.20	0.6/2.2
MW-2	1/21/2003	160	72	NA	<0.50	<0.50	<0.50	<0.50	NA	380	NA	NA	NA	NA	10.10	4.11	5.99	0.5/1.0
MW-2	5/1/2003	350	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	110	NA	NA	NA	NA	10.10	4.18	5.92	NA
MW-2	7/17/2003	120	61 a, f	NA	<0.50	<0.50	<0.50	<1.0	NA	14	NA	NA	NA	NA	10.10	4.72	5.38	NA
MW-2	10/2/2003	190	200 a	NA	1.6	<0.50	<0.50	<1.0	NA	17	NA	NA	NA	NA	10.10	5.76	4.34	NA
MW-2	1/5/2004	77	<50	NA	<0.50	0.86	<0.50	<1.0	NA	1.3	NA	NA	NA	NA	10.10	3.28	6.82	NA
MW-2	4/1/2004	450 a	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.6	NA	NA	NA	NA	10.10	3.71	6.39	NA
MW-2	8/2/2004	110	130 a	<500	<0.50	<0.50	<0.50	<1.0	NA	3.9	<2.0	<2.0	<2.0	150	10.10	5.50	4.60	NA
MW-2	11/2/2004	130	55 a	<500	<0.50	<0.50	<0.50	<1.0	NA	1.7	NA	NA	NA	NA	10.10	4.37	5.73	NA
MW-2	1/10/2005	81	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	0.65	NA	NA	NA	NA	10.10	3.70	6.40	NA
MW-2	4/13/2005	500	<50 j, k	<500 j, k	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.10	3.13	6.97	NA
MW-3	2/16/1989	60,000	NA	NA	5,500	ND	3,200	5,200	NA	NA	NA	NA	NA	NA	7.81	5.17	2.64	NA
MW-3	5/23/1989	ND	1,500	NA	ND	200	ND	ND	NA	NA	NA	NA	NA	NA	7.81	5.09	2.72	NA
MW-3	8/3/1989	2,000	1,200	NA	120	ND	ND	86	NA	NA	NA	NA	NA	NA	7.81	5.34	2.47	NA
MW-3	12/15/1989	5,200	1,700	NA	380	12	17	410	NA	NA	NA	NA	NA	NA	7.81	6.02	1.79	NA
MW-3	2/7/1990	260	230	NA	17	47	5.4	2.5	NA	NA	NA	NA	NA	NA	7.81	4.95	2.86	NA
MW-3	4/18/1990	260	ND	NA	ND	ND	ND	9.4	NA	NA	NA	NA	NA	NA	7.81	5.55	2.26	NA
MW-3	7/23/1990	510	210	NA	46	ND	ND	9.3	NA	NA	NA	NA	NA	NA	7.81	5.81	2.00	NA
MW-3	9/27/1990	460	350	NA	6.3	1.2	ND	15	NA	NA	NA	NA	NA	NA	7.81	6.86	0.95	NA
MW-3	1/3/1991	4,800	630	NA	920	1.7	ND	190	NA	NA	NA	NA	NA	NA	7.81	6.84	0.97	NA
MW-3	4/10/1991	120	60	NA	1.2	8.8	3.5	21	NA	NA	NA	NA	NA	NA	7.81	4.93	2.88	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-3	7/12/1991	430	ND	NA	12	0.8	ND	7.7	NA	NA	NA	NA	NA	NA	7.81	5.56	2.25	NA
MW-3	10/8/1991	770	560	NA	140	ND	ND	53	NA	NA	NA	NA	NA	NA	7.81	6.62	1.19	NA
MW-3	2/6/1992	500	340 a	NA	74	0.7	5.2	5.3	NA	NA	NA	NA	NA	NA	7.81	6.28	1.53	NA
MW-3	5/4/1992	310	290 a	NA	47	0.9	17	16	NA	NA	NA	NA	NA	NA	7.81	4.65	3.16	NA
MW-3	7/28/1992	780	100 a	NA	130	ND	13	4.2	NA	NA	NA	NA	NA	NA	7.81	5.56	2.25	NA
MW-3	10/27/1992	740	69a	NA	92	ND	7.8	9.6	NA	NA	NA	NA	NA	NA	7.81	6.65	1.16	NA
MW-3	1/14/1993	ND	ND	NA	2.4	2.8	ND	ND	NA	NA	NA	NA	NA	NA	7.81	3.88	3.93	NA
MW-3	04/23/1993b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.81	NA	NA	NA
MW-3	07/20/1993b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	NA	NA	NA
MW-3	10/18/1993b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	NA	NA	NA
MW-3	1/6/1994	130	64	NA	1.7	ND	ND	0.93	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.54	NA	NA
MW-3	4/12/1994	ND	75	NA	0.82	ND	ND	0.7	NA	NA	NA	NA	NA	NA	11.25 (TOB)	4.82	NA	NA
MW-3	7/25/1994	0.06a	ND	NA	2.8	ND	ND	0.7	NA	NA	NA	NA	NA	NA	11.25 (TOB)	6.03 (TOB)	5.22	NA
MW-3	10/25/1994	70	100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	6.48	NA	NA
MW-3	1/9/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	4.86 (TOB)	6.39	NA
MW-3	4/11/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	4.22 (TOB)	7.03	NA
MW-3	7/18/1995	ND	90	NA	2.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.44 (TOB)	5.81	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.72	NA	NA
MW-3	1/9/1996	90	90	NA	1.7	ND	<0.5	<0.5	61	NA	NA	NA	NA	NA	11.25 (TOB)	4.96	NA	NA
MW-3	4/2/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	24	NA	NA	NA	NA	NA	11.25 (TOB)	3.43	NA	NA
MW-3	10/3/1996	<500	180	NA	<5	<5	<5	<5	1,200	NA	NA	NA	NA	NA	11.25 (TOB)	5.39	NA	2.4
MW-3	4/3/1997	150	83	NA	3.2	<0.50	<0.50	0.81	280	NA	NA	NA	NA	NA	11.25 (TOB)	4.20	NA	2.0
MW-3	10/8/1997	180	120	NA	7.3	0.68	0.54	3.9	1,700	NA	NA	NA	NA	NA	11.25 (TOB)	5.51(TOB)	5.74	2.1
MW-3	6/10/1998	130	120	NA	12	0.85	<0.50	2.1	600	NA	NA	NA	NA	NA	11.25 (TOB)	3.91(TOB)	7.34	0.8/0.9
MW-3	12/30/1998	<250	108	NA	<2.50	<2.50	<2.50	<2.50	1,010	NA	NA	NA	NA	NA	11.25 (TOB)	5.76 (TOB)	5.49	1.3/1.4
MW-3 *	6/25/1999	269	NA	NA	4.24	<2.50	<2.50	<2.50	1,180	NA	NA	NA	NA	NA	11.25 (TOB)	4.73	NA	1.4/1.9
MW-3	12/28/1999	333	122	NA	41.4	6.48	6.57	21.3	2,680	NA	NA	NA	NA	NA	11.25 (TOB)	5.75 (TOB)	5.50	1.3/1.5
MW-3	5/31/2000	1,180	89.2	NA	19.1	1.92	3.26	<1.00	2,130	NA	NA	NA	NA	NA	11.25 (TOB)	4.96 (TOB)	6.29	1.2/2.2
MW-3	10/17/2000	156	183 a	NA	5.22	0.819	<0.500	1.53	2,250	NA	NA	NA	NA	NA	11.25 (TOB)	5.70 (TOB)	5.55	2.0/2.1
MW-3	5/1/2001	286	95.9	NA	<2.50	<2.50	<2.50	<2.50	1,470	NA	NA	NA	NA	NA	11.25 (TOB)	4.88 (TOB)	6.37	1.9/2.7
MW-3	5/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.25 (TOB)	6.00	3.0/1.9
MW-3	11/5/2001	<500	<50	NA	<5.0	<5.0	<5.0	<5.0	NA	2,100	NA	NA	NA	NA	11.25 (TOB)	6.25 (TOB)	5.00	0.5/1.9

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-3	5/1/2002	<100	80	NA	<1.0	<1.0	<1.0	<1.0	NA	430	NA	NA	NA	NA	11.25 (TOB)	4.77 (TOB)	6.48	4.1/0.7
MW-3	7/16/2002	410	340	NA	12	2.0	<2.0	3.5	NA	530	NA	NA	NA	NA	11.25 (TOB)	5.44 (TOB)	5.81	0.3/1.7
MW-3	10/17/2002	220	82	NA	2.5	<2.0	<2.0	2.3	NA	25	NA	NA	NA	NA	10.58	6.03	4.55	0.8/2.4
MW-3	1/21/2003	<50	150	NA	<0.50	<0.50	<0.50	<0.50	NA	28	NA	NA	NA	NA	10.58	4.30	6.28	1.2/1.0
MW-3	5/1/2003	60	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	10.58	4.30	6.28	NA
MW-3	7/17/2003	120	<50	NA	1.2	<0.50	<0.50	<1.0	NA	11	NA	NA	NA	NA	10.58	5.36	5.22	NA
MW-3	10/2/2003	160	56 a	NA	3.1	1.1	<0.50	2.1	NA	8.2	NA	NA	NA	NA	10.58	6.00	4.58	NA
MW-3	1/5/2004	54	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	10.58	4.44	6.14	NA
MW-3	4/1/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	4.2	NA	NA	NA	NA	10.58	4.29	6.29	NA
MW-3	8/2/2004	300	<50	<500	<2.5	<2.5	<2.5	<5.0	NA	17	<10	<10	<10	1,900	10.58	5.80	4.78	NA
MW-3	11/2/2004	72	<50	<500	0.51	<0.50	<0.50	<1.0	NA	3.0	NA	NA	NA	NA	10.58	5.00	5.58	NA
MW-3	1/10/2005	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.58	3.01	7.57	NA
MW-3	4/13/2005	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	0.69	NA	NA	NA	NA	10.58	2.89	7.69	NA

MW-4	5/23/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	5.60	1.78	NA
MW-4	8/3/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.37	1.01	NA
MW-4	12/15/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.91	0.47	NA
MW-4	3/8/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.06	1.32	NA
MW-4	4/18/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	5.84	1.54	NA
MW-4	7/23/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.92	0.46	NA
MW-4	9/27/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	8.03	0.65	NA
MW-4	1/3/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	7.54	-0.16	NA
MW-4	4/10/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	5.06	2.32	NA
MW-4	7/12/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.86	0.52	NA
MW-4	10/8/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	7.44	-0.06	NA
MW-4	2/6/1992	120	2,500 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	7.29	0.09	NA
MW-4	5/4/1992	ND	53	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	5.33	2.05	NA
MW-4	7/28/1992	ND	60	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.95	0.43	NA
MW-4	10/27/1992	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	7.65	-0.27	NA
MW-4	1/14/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	4.84	2.54	NA
MW-4	4/23/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	4.84	2.54	NA
MW-4	7/20/1993	ND	ND	NA	2.2	ND	1.1	7.7	NA	NA	NA	NA	NA	NA	10.28	6.47	3.81	NA

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Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-4	10/18/1993	ND	ND	NA	ND	1.2	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.35	2.93	NA
MW-4	1/6/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.64	2.64	NA
MW-4	4/12/1994	ND	76	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	6.39	3.89	NA
MW-4	7/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.00	3.28	NA
MW-4	10/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.53	2.75	NA
MW-4	1/9/1995	ND	70 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	4.90	5.38	NA
MW-4	4/11/1995	ND	140	NA	1.5	ND	0.6	3.4	NA	NA	NA	NA	NA	NA	10.28	5.04	5.24	NA
MW-4	7/18/1995	ND	160	NA	13	3.4	ND	ND	NA	NA	NA	NA	NA	NA	10.28	6.18	4.10	NA
MW-4	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	6.63	3.65	NA
MW-4	1/9/1996	<50	ND	NA	<0.5	ND	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.28	3.82	6.46	NA
MW-4	4/2/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.28	3.97	6.31	NA
MW-4	10/3/1996	<50	81	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.28	3.74	6.54	NA
MW-4	4/3/1997	<50	69	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.28	3.74	6.54	1.8
MW-4	10/8/1997	<50	75	NA	<0.50	<0.50	<0.50	<0.50	13	NA	NA	NA	NA	NA	10.28	4.89	5.39	2.0
MW-4 (D)	10/8/1997	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.28	4.89	5.39	2.0
MW-4	6/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.39	5.89	NA
MW-4	12/30/1998	<50.0	94.1	NA	<0.500	<0.500	<0.500	0.580	7.33	NA	NA	NA	NA	NA	10.28	5.58	4.70	1.7/1.6
MW-4	6/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.17	6.11	NA
MW-4	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.28	4.54	5.74	1.4/1.5
MW-4	5/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	3.85	6.43	NA
MW-4	10/17/2000	<50.0	274a	NA	<0.500	<0.500	<0.500	<0.500	9.40	NA	NA	NA	NA	NA	10.28	3.50	6.78	3.8/4.0
MW-4	5/1/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.10	6.18	NA
MW-4	11/5/2001	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	8.4	NA	NA	NA	NA	10.28	5.21	5.07	1.3/1.5
MW-4	5/1/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.28	4.28	6.00	2.6/1.1
MW-4	7/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	3.87	6.41	NA
MW-4	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	9.83	4.66	5.17	1.4/2.4
MW-4	1/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	3.87	5.96	NA
MW-4	5/1/2003	<50	57 a	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	9.83	4.49	5.34	NA
MW-4	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	5.46	4.37	NA
MW-4	10/2/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	5.9	NA	NA	NA	NA	9.83	5.51	4.32	NA
MW-4	1/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	3.83	6.00	NA
MW-4	4/1/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	3.0	NA	NA	NA	NA	9.83	4.43	5.40	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-4	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	5.05	4.78	NA
MW-4	11/2/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	3.8	NA	NA	NA	NA	9.83	4.31	5.52	NA
MW-4	1/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	3.51	6.32	NA
MW-4	4/13/2005	<50	83 a, j, k	<500 j, k	<0.50	<0.50	<0.50	<1.0	NA	5.1	NA	NA	NA	NA	9.83	3.77	6.06	NA
MW-5	5/23/1989	26,000	7,000	NA	1,500	280	ND	8,100	NA	NA	NA	NA	NA	NA	8.18	5.47	2.71	NA
MW-5	8/3/1989	12,000	8,700	NA	860	94	ND	2,600	NA	NA	NA	NA	NA	NA	8.18	5.94	2.24	NA
MW-5	12/15/1989	1,000	710	NA	22	35	18	44	NA	NA	NA	NA	NA	NA	8.18	6.75	1.43	NA
MW-5	2/7/1990	ND	620	NA	0.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	8.18	6.03	2.15	NA
MW-5	4/18/1990	19,000	5,000	NA	4,500	850	97	8,000	NA	NA	NA	NA	NA	NA	8.18	5.80	2.38	NA
MW-5	7/23/1990	23,000	2,700	NA	3,600	400	160	6,500	NA	NA	NA	NA	NA	NA	8.18	6.00	2.18	NA
MW-5	9/23/1990	5,400	550	NA	1,400	28	13	1,300	NA	NA	NA	NA	NA	NA	8.18	7.18	1.00	NA
MW-5	1/3/1991	860	560	NA	280	2.8	0.8	45	NA	NA	NA	NA	NA	NA	8.18	7.17	1.01	NA
MW-5	4/10/1991	12,000	1,800	NA	710	130	500	2,400	NA	NA	NA	NA	NA	NA	8.18	5.25	2.93	NA
MW-5	7/12/1991	24,000	1,700	NA	2,200	280	430	5,700	NA	NA	NA	NA	NA	NA	8.18	5.70	2.48	NA
MW-5	10/8/1991	2,800	1,400	NA	860	13	ND	580	NA	NA	NA	NA	NA	NA	8.18	6.50	1.68	NA
MW-5	2/6/1992	1,000	1,200	NA	300	ND	14	62	NA	NA	NA	NA	NA	NA	8.18	6.35	1.83	NA
MW-5	5/4/1992	10,000	4,100 a	NA	1,500	350	710	2,300	NA	NA	NA	NA	NA	NA	8.18	4.87	3.31	NA
MW-5	7/28/1992	12,000	3,800 a	NA	2,200	63	1,400	3,500	NA	NA	NA	NA	NA	NA	8.18	5.73	2.45	NA
MW-5	10/27/1992	7,500	480 a	NA	1,100	59	230	900	NA	NA	NA	NA	NA	NA	8.18	6.98	1.20	NA
MW-5	1/14/1993	7,700	1,100 a	NA	420	49	570	840	NA	NA	NA	NA	NA	NA	8.18	4.70	3.48	NA
MW-5	4/23/1993	110,000	1,600 a	NA	2,900	2,500	3,400	12,000	NA	NA	NA	NA	NA	NA	8.18	4.19	3.99	NA
MW-5	7/20/1993	18a	1,200 a	NA	1,400	84	1,500	3,200	NA	NA	NA	NA	NA	NA	10.87	5.10	5.77	NA
MW-5	10/18/1993	14,000	5,800 a	NA	2,000	100	2,300	5,100	NA	NA	NA	NA	NA	NA	10.87	5.79	5.08	NA
MW-5	1/6/1994	81,000	1,100 a	NA	11,000	9,300	3,600	12,000	NA	NA	NA	NA	NA	NA	10.87	5.56	5.31	NA
MW-5	4/12/1994	17,000	4,100	NA	2,900	380	430	1,300	NA	NA	NA	NA	NA	NA	10.87	4.90	5.97	NA
MW-5	7/25/1994	5,900	5,400 a	NA	1,500	42	34	170	NA	NA	NA	NA	NA	NA	10.87	5.38	5.49	NA
MW-5	10/25/1994	2,300	1,900 a	NA	35	3	ND	8	NA	NA	NA	NA	NA	NA	10.87	6.16	4.71	NA
MW-5	1/9/1995	8,300	3,700 a	NA	1,500	95	330	1,900	NA	NA	NA	NA	NA	NA	10.87	4.60	6.27	NA
MW-5	4/11/1995	7,300	9,800	NA	1,200	230	600	550	NA	NA	NA	NA	NA	NA	10.87	3.74	7.13	NA
MW-5	7/18/1995	17,000	5,100	NA	2,300	730	770	2,500	NA	NA	NA	NA	NA	NA	10.87	4.97	5.90	NA
MW-5	10/18/1995	Well abandoned		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.87	5.67	5.20	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-6	5/23/1989	22,000	7,000	NA	16	6.5	7	3,400	NA	NA	NA	NA	NA	NA	8.21	5.47	2.74	NA
MW-6	8/3/1989	28,000	8,800	NA	1,200	130	2,100	2,800	NA	NA	NA	NA	NA	NA	8.21	5.91	2.30	NA
MW-6	12/15/1989	16,000	5,500	NA	370	92	200	180	NA	NA	NA	NA	NA	NA	8.21	5.98	2.23	NA
MW-6	2/7/1990	22,000	2,600	NA	520	85	630	770	NA	NA	NA	NA	NA	NA	8.21	5.47	2.74	NA
MW-6	4/18/1990	21,000	5,700	NA	900	77	2,700	2,700	NA	NA	NA	NA	NA	NA	8.21	5.80	2.41	NA
MW-6	7/23/1990	24,000	3,000	NA	1,000	94	3,400	2,700	NA	NA	NA	NA	NA	NA	8.21	5.85	2.36	NA
MW-6	9/27/1990	22,000	ND	NA	700	93	2,500	2,400	NA	NA	NA	NA	NA	NA	8.21	6.42	1.79	NA
MW-6	1/3/1991	25,000	960	NA	1,000	88	2,600	3,700	NA	NA	NA	NA	NA	NA	8.21	6.73	1.48	NA
MW-6	4/10/1991	18,000	920	NA	560	190	480	830	NA	NA	NA	NA	NA	NA	8.21	5.24	2.97	NA
MW-6	7/12/1991	9,500	1,900	NA	670	51	1,100	920	NA	NA	NA	NA	NA	NA	8.21	5.78	2.43	NA
MW-6	10/8/1991	11,000	5,100	NA	1,000	43	ND	ND	NA	NA	NA	NA	NA	NA	8.21	6.36	1.85	NA
MW-6	2/6/1992	7,200	1,500 a	NA	560	8	720	160	NA	NA	NA	NA	NA	NA	8.21	6.15	2.06	NA
MW-6	5/4/1992	7,900	2,900 a	NA	610	ND	1,500	240	NA	NA	NA	NA	NA	NA	8.21	5.07	3.14	NA
MW-6	7/28/1992	17,000	3,200 a	NA	1,200	ND	3,000	610	NA	NA	NA	NA	NA	NA	8.21	5.85	2.36	NA
MW-6	10/27/1992	15,000	1,300 a	NA	1,300	130	1,700	490	NA	NA	NA	NA	NA	NA	8.21	6.69	1.52	NA
MW-6	1/14/1993	4,900	1,600 a	NA	80	31	330	37	NA	NA	NA	NA	NA	NA	8.21	4.52	3.69	NA
MW-6	4/23/1993	4,800	1,800 a	NA	120	ND	780	73	NA	NA	NA	NA	NA	NA	8.21	4.32	3.89	NA
MW-6	7/20/1993	19a	910 a	NA	570	18	1,100	130	NA	NA	NA	NA	NA	NA	11.04	5.39	5.65	NA
MW-6	10/18/1993	24,000	2,500 a	NA	770	440	1,600	830	NA	NA	NA	NA	NA	NA	11.04	6.67	4.37	NA
MW-6	1/6/1994	20 a	2,300 a	NA	450	30	530	52	NA	NA	NA	NA	NA	NA	11.04	5.66	5.38	NA
MW-6	4/12/1994	3,600	1,600	NA	150	ND	340	21	NA	NA	NA	NA	NA	NA	11.04	4.91	6.13	NA
MW-6	7/25/1994	1,600	2,200 a	NA	160	ND	ND	10	NA	NA	NA	NA	NA	NA	11.04	5.55	5.49	NA
MW-6 (D)	7/25/1994	1,000	2,400 a	NA	160	ND	ND	18	NA	NA	NA	NA	NA	NA	11.04	5.55	5.49	NA
MW-6	10/25/1994	9,800	3,000 a	NA	390	22	300	57	NA	NA	NA	NA	NA	NA	11.04	6.24	4.80	NA
MW-6	1/9/1995	2,200	800 a	NA	74	12	400	39	NA	NA	NA	NA	NA	NA	11.04	4.58	6.46	NA
MW-6	4/11/1995	5,000	7,700	NA	330	15	760	85	NA	NA	NA	NA	NA	NA	11.04	4.04	7.00	NA
MW-6	7/18/1995	4,200	1,700	NA	320	11	490	22	NA	NA	NA	NA	NA	NA	11.04	5.01	6.03	NA
MW-6	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.04	5.86	5.18	NA
MW-6	1/9/1996	5,600	790	NA	59	<5	180	12	14,000	NA	NA	NA	NA	NA	11.04	4.75	6.29	NA
MW-6	4/2/1996	1,500	NA	NA	12	<5	170	9	1,900	NA	NA	NA	NA	NA	11.04	3.82	7.22	NA
MW-6	10/3/1996	2,600	1,800	NA	110	<25	<25	<25	11,000	NA	NA	NA	NA	NA	11.04	5.27	5.77	2.2

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-6	4/3/1997	<2,500	650	NA	30	<25	32	<25	10,000	NA	NA	NA	NA	NA	11.04	4.42	6.62	2.0
MW-6	10/8/1997	1,900	1,100	NA	31	<5.0	6.1	<5.0	2,600	NA	NA	NA	NA	NA	11.04	4.70	6.34	1.0
MW-6	6/10/1998	<1,000	1,500	NA	17	12	14	88	14,000	NA	NA	NA	NA	NA	11.04	4.36	6.68	0.4/0.4
MW-6	12/30/1998	260	528	NA	<2.50	<2.50	<2.50	<2.50	909	NA	NA	NA	NA	NA	11.04	4.98	6.06	2.1/1.6
MW-6 *	6/25/1999	<2,500	NA	NA	<25.0	<25.0	<25.0	<25.0	8,850	7,630	NA	NA	NA	NA	11.04	4.81	6.23	1.4/3.6
MW-6	12/28/1999	526	416	NA	7.60	<1.00	<1.00	<1.00	1,510	NA	NA	NA	NA	NA	11.04	5.17	5.87	1.8/2.0
MW-6	5/31/2000	2,870	998	NA	45.7	4.70	8.61	<2.50	3,780	NA	NA	NA	NA	NA	11.04	4.58	6.46	0.92/2.30
MW-6	10/17/2000	2,370	944a	NA	49.8	5.36	<5.00	<5.00	746	NA	NA	NA	NA	NA	11.04	4.80	6.24	2.5/2.1
MW-6	5/1/2001	3,000	706	NA	2.72	<2.50	4.46	<2.50	473	NA	NA	NA	NA	NA	11.04	4.75	6.29	2.2/1.6
MW-6	5/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.04	4.86	6.18	2.0/1.3
MW-6	11/5/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.04	5.73	5.31	0.6
MW-6	11/7/2001	1,700	180	NA	1.3	1.2	1.3	1.1	NA	430	NA	NA	NA	NA	11.04	5.75	5.29	2.4/1.8
MW-6	5/1/2002	1,400	<300	NA	2.0	0.61	4.3	0.68	NA	220	NA	NA	NA	NA	11.04	4.47	6.57	2.5/2.0
MW-6	7/16/2002	3,500	<600	NA	31	1.5	5.7	1.2	NA	220	NA	NA	NA	NA	11.04	5.05	5.99	0.6/0.6
MW-6	10/17/2002	3,000	<700	NA	27	1.7	2.9	1.8	NA	340	NA	NA	NA	NA	10.59	5.80	4.79	1.2/1.1
MW-6	1/21/2003	900	<200	NA	1.5	<0.50	1.4	<0.50	NA	73	NA	NA	NA	NA	10.59	4.39	6.20	0.8/0.6
MW-6	5/1/2003	700 a	160 a	NA	0.58	<0.50	0.82	<1.0	NA	71	NA	NA	NA	NA	10.59	4.19	6.40	NA
MW-6	7/17/2003	<1,200	220 a,f	NA	<12	<12	<12	<25	NA	840	NA	NA	NA	NA	10.59	5.22	5.37	NA
MW-6	10/2/2003	<1,000	300 a	NA	<10	<10	<10	<20	NA	1,500	NA	NA	NA	NA	10.59	5.86	4.73	NA
MW-6	1/5/2004	520	140 a	NA	<0.50	0.72	<0.50	<1.0	NA	30	NA	NA	NA	NA	10.59	3.79	6.80	NA
MW-6	4/1/2004	650	220 a	NA	<0.50	<0.50	0.54	<1.0	NA	130	NA	NA	NA	NA	10.59	4.28	6.31	NA
MW-6	8/2/2004	1,600	500 a	<500	<2.5	<2.5	<2.5	<5.0	NA	480	<10	<10	<10	900	10.59	5.78	4.81	NA
MW-6	11/2/2004	580	150 g	<500	<0.50	<0.50	<0.50	<1.0	NA	55	NA	NA	NA	NA	10.59	4.73	5.86	NA
MW-6	1/10/2005	620	230 g	<500	<0.50	<0.50	0.50	<1.0	NA	17	NA	NA	NA	NA	10.59	3.70	6.89	NA
MW-6	4/13/2005	2,000	570 a, j, k	520 j, k	0.98	1.7	1.2	1.2	NA	190	NA	NA	NA	NA	10.59	3.75	6.84	NA
MW-7	5/23/1989	47,000	11,000	NA	3,500	5,000	1,500	7,800	NA	NA	NA	NA	NA	NA	7.44	5.48	1.96	NA
MW-7	8/3/1989	68,000	22,000	NA	6,200	6,600	3,600	8,800	NA	NA	NA	NA	NA	NA	7.44	4.22	3.22	NA
MW-7	12/15/1989	100,000	12,000	NA	4,500	5,300	1,300	5,300	NA	NA	NA	NA	NA	NA	7.44	4.58	2.86	NA
MW-7	2/7/1990	96,000	8,100	NA	15,000	15,000	2,500	14,000	NA	NA	NA	NA	NA	NA	7.44	5.34	2.10	NA
MW-7	4/18/1990	94,000	10,000	NA	25,000	13,000	3,300	13,000	NA	NA	NA	NA	NA	NA	7.44	4.92	2.52	NA
MW-7	7/23/1990	84,000	12,000	NA	3,800	26,000	13,000	3,000	NA	NA	NA	NA	NA	NA	7.44	4.99	2.45	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-7	9/27/1990	43,000	ND	NA	25,000	6,100	2,400	9,000	NA	NA	NA	NA	NA	NA	7.44	6.16	1.28	NA
MW-7	1/3/1991	78,000	3,100	NA	26,000	16,000	3,000	14,000	NA	NA	NA	NA	NA	NA	7.44	4.96	2.48	NA
MW-7	4/10/1991	140,000	1,800	NA	26,000	16,000	2,200	14,000	NA	NA	NA	NA	NA	NA	7.44	4.13	3.31	NA
MW-7	7/12/1991	79,000	1,100	NA	7,700	7,200	2,300	10,000	NA	NA	NA	NA	NA	NA	7.44	4.98	2.46	NA
MW-7	10/8/1991	55,000	390 a	NA	29,000	7,500	1,800	9,300	NA	NA	NA	NA	NA	NA	7.44	5.48	1.96	NA
MW-7	2/6/1992	63,000	9,600 a	NA	16,000	8,700	1,600	7,400	NA	NA	NA	NA	NA	NA	7.44	5.05	2.39	NA
MW-7	5/4/1992	67,000	9,800 a	NA	22,000	13,000	1,800	9,400	NA	NA	NA	NA	NA	NA	7.44	4.43	3.01	NA
MW-7	7/28/1992	85,000	13,000 a	NA	26,000	17,000	2,900	15,000	NA	NA	NA	NA	NA	NA	7.44	4.88	2.56	NA
MW-7	10/27/1992	63,000	1,900 a	NA	21,000	11,000	3,000	11,000	NA	NA	NA	NA	NA	NA	7.44	5.39	2.05	NA
MW-7	1/14/1993	120,000	2,300 a	NA	28,000	21,000	1,600	15,000	NA	NA	NA	NA	NA	NA	7.44	4.26	3.18	NA
MW-7	4/23/1993	60,000	12,000 a	NA	17,000	3,700	2,200	11,000	NA	NA	NA	NA	NA	NA	7.44	4.04	3.40	NA
MW-7 (D)	4/23/1993	50,000	14,000 a	NA	17,000	4,200	2,200	11,000	NA	NA	NA	NA	NA	NA	7.44	4.04	3.40	NA
MW-7	7/20/1993	47,000	13,000	NA	23,000	9,900	2,200	12,000	NA	NA	NA	NA	NA	NA	10.28	4.36	5.92	NA
MW-7	10/18/1993	44,000	10,000 a	NA	22,000	3,800	2,600	10,000	NA	NA	NA	NA	NA	NA	10.28	5.14	5.14	NA
MW-7	1/6/1994	65,000	5,200 a	NA	16,000	4,900	1,900	8,500	NA	NA	NA	NA	NA	NA	10.28	4.83	5.45	NA
MW-7	4/12/1994	68,000	3,400	NA	12,000	2,000	580	6,400	NA	NA	NA	NA	NA	NA	10.28	4.24	6.04	NA
MW-7	7/25/1994	63,000	4,200 a	NA	16,000	5,800	300	8,300	NA	NA	NA	NA	NA	NA	10.28	4.58	5.70	NA
MW-7	10/25/1994	46,000	3,800 a	NA	16,000	3,700	1,200	7,300	NA	NA	NA	NA	NA	NA	10.28	5.07	5.21	NA
MW-7	1/9/1995	62,000	3,300 a	NA	24,000	8,500	1,100	9,400	NA	NA	NA	NA	NA	NA	10.28	3.38	6.90	NA
MW-7 (D)	1/11/1995	57,000	3,200 a	NA	9,500	7,900	620	8,000	NA	NA	NA	NA	NA	NA	10.28	3.38	6.90	NA
MW-7	4/11/1995	53,000	7,000	NA	13,000	4,200	1,500	7,700	NA	NA	NA	NA	NA	NA	10.28	3.52	6.76	NA
MW-7 (D)	4/12/1995	55,000	7,600	NA	11,000	3,700	1,300	6,400	NA	NA	NA	NA	NA	NA	10.28	3.52	6.76	NA
MW-7	7/18/1995	95,000	2,700	NA	24,000	8,000	2,100	12,000	NA	NA	NA	NA	NA	NA	10.28	4.70	5.58	NA
MW-7	10/18/1995	Well abandoned		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	5.25	5.03	NA
MW-8	5/23/1989	ND	100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.62	1.17	NA
MW-8	8/3/1989	ND	75	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.62	1.17	NA
MW-8	12/15/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.71	1.08	NA
MW-8	3/8/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	4.95	2.84	NA
MW-8	4/18/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.79	6.40	1.89	NA
MW-8	7/23/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.62	1.17	NA
MW-8	9/27/1990	ND	1,100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.98	0.81	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-8	1/3/1991	ND	ND	NA	1.3	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	7.03	0.76	NA
MW-8	4/10/1991	50	ND	NA	0.7	1.1	0.8	1	NA	NA	NA	NA	NA	NA	7.79	4.40	3.39	NA
MW-8	7/12/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.80	0.99	NA
MW-8	10/8/1991	ND	ND	NA	1.4	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	7.56	0.23	NA
MW-8	2/6/1992	ND	60 a	NA	ND	0.7	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.94	0.85	NA
MW-8	5/4/1992	ND	210 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	5.86	1.93	NA
MW-8	7/28/1992	51	ND	NA	ND	ND	1	0.6	NA	NA	NA	NA	NA	NA	7.79	6.94	0.85	NA
MW-8	10/27/1992	ND	ND	NA	ND	6.6	ND	ND	NA	NA	NA	NA	NA	NA	7.79	7.83	-0.04	NA
MW-8	1/14/1993	ND	64a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	3.60	4.19	NA
MW-8 (D)	1/14/1993	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	3.60	4.19	NA
MW-8	4/23/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	4.12	3.67	NA
MW-8	7/20/1993	ND	ND	NA	0.7	0.7	0.8	4.1	NA	NA	NA	NA	NA	NA	10.61	6.38	4.23	NA
MW-8	10/18/1993	ND	ND	NA	ND	800	ND	ND	NA	NA	NA	NA	NA	NA	10.61	7.47	3.14	NA
MW-8	1/6/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	7.20	3.41	NA
MW-8	4/12/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	6.16	4.45	NA
MW-8	7/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	6.94	3.67	NA
MW-8	10/25/1994	ND	ND	NA	ND	1	ND	ND	NA	NA	NA	NA	NA	NA	10.61	7.43	3.18	NA
MW-8	1/9/1995	ND	70 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	3.98	6.63	NA
MW-8	4/11/1995	ND	78	NA	0.63	1.3	ND	0.75	NA	NA	NA	NA	NA	NA	10.61	4.12	6.49	NA
MW-8	7/18/1995	ND	130	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	5.21	5.40	NA
MW-8	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	5.58	5.03	NA
MW-8	1/9/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.61	5.09	5.52	NA
MW-8	4/2/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.61	3.42	7.19	NA
MW-8	10/3/1996	<50	<69	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.61	4.30	6.31	NA
MW-8	4/3/1997	<50	62	NA	<0.50	<0.50	<0.50	0.91	<2.5	NA	NA	NA	NA	NA	10.61	4.58	6.03	2.6
MW-8	10/8/1997	<50	57	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.61	3.00	7.61	3.6
MW-8	6/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	2.88	7.73	NA
MW-8	12/30/1998	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	10.61	5.38	5.23	0.8/0.9
MW-8	6/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	4.53	6.08	NA
MW-8	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.61	4.93	5.68	1.0/0.9
MW-8	5/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	4.02	6.59	NA
MW-8	10/17/2000	<50.0	143a	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	10.61	3.10	7.51	4.0/4.1

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-8	5/1/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	4.12	6.49	NA
MW-8	11/5/2001	<50	<50	NA	<0.50	0.99	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.61	5.00	5.61	0.6/1.3
MW-8	5/1/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.61	3.25	7.36	0.6/3.6
MW-8	7/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	3.64	6.97	NA
MW-8	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.18	4.53	5.65	3.3/2.2
MW-8	1/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	3.98	6.20	NA
MW-8	5/1/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	10.18	4.00	6.18	NA
MW-8	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	4.37	5.81	NA
MW-8	10/2/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	4.56	5.62	NA
MW-8	1/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	2.90	7.28	NA
MW-8	4/1/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	3.83	6.35	NA
MW-8	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	5.35	4.83	NA
MW-8	11/2/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	4.28	5.90	NA
MW-8	1/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	2.44	7.74	NA
MW-8	4/13/2005	<50 l	120 h	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	2.75	7.43	NA

MW-9	8/3/1989	47,000	12,000	NA	5,600	6,600	1,500	8,500	NA	NA	NA	NA	NA	NA	7.63	5.78	1.85	NA
MW-9	12/15/1989	88,000	9,200	NA	4,300	5,400	140	5,600	NA	NA	NA	NA	NA	NA	7.63	5.24	2.39	NA
MW-9	2/7/1990	50,000	7,400	NA	1,800	1,400	3,200	1,800	NA	NA	NA	NA	NA	NA	7.63	5.23	2.40	NA
MW-9	4/18/1990	50,000	7,500	NA	14,000	11,000	730	10,000	NA	NA	NA	NA	NA	NA	7.63	5.34	2.29	NA
MW-9	7/23/1990	62,000	3,200	NA	19,000	16,000	950	15,000	NA	NA	NA	NA	NA	NA	7.63	5.65	1.98	NA
MW-9	9/27/1990	30,000	2,700	NA	16,000	6,500	980	11,000	NA	NA	NA	NA	NA	NA	7.63	5.96	1.67	NA
MW-9	1/3/1991	34,000	2,500	NA	9,200	3,200	770	7,000	NA	NA	NA	NA	NA	NA	7.63	6.23	1.40	NA
MW-9	4/10/1991	66,000	2,200	NA	17,000	13,000	1,400	14,000	NA	NA	NA	NA	NA	NA	7.63	4.65	2.98	NA
MW-9	7/12/1991	40,000	2,000	NA	7,700	3,200	1,100	9,400	NA	NA	NA	NA	NA	NA	7.63	5.65	1.98	NA
MW-9	10/8/1991	20,000	4,700 a	NA	11,000	640	240	6,000	NA	NA	NA	NA	NA	NA	7.63	6.08	1.55	NA
MW-9	2/6/1992	36,000	6,600 a	NA	11,000	490	1,100	6,700	NA	NA	NA	NA	NA	NA	7.63	5.92	1.71	NA
MW-9	5/4/1992	31,000	5,800 a	NA	11,000	1,700	1,200	8,700	NA	NA	NA	NA	NA	NA	7.63	4.80	2.83	NA
MW-9	7/28/1992	50,000	14,000	NA	17,000	1,200	1,500	12,000	NA	NA	NA	NA	NA	NA	7.63	5.61	2.02	NA
MW-9	10/27/1992	43,000	880 a	NA	15,000	680	1,700	8,100	NA	NA	NA	NA	NA	NA	7.63	6.24	1.39	NA
MW-9	1/14/1993	52,000	730 a	NA	9,600	1,100	1,100	7,000	NA	NA	NA	NA	NA	NA	7.63	4.95	2.68	NA
MW-9	4/23/1993	45,000	8,000 a	NA	11,000	1,400	1,500	10,000	NA	NA	NA	NA	NA	NA	7.63	4.54	3.09	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-9	7/20/1993	25,000	5,100	NA	10,000	320	1,100	7,100	NA	NA	NA	NA	NA	NA	10.48	5.25	5.23	NA
MW-9	10/18/1993	32,000	4,900 a	NA	14,000	530	2,000	10,000	NA	NA	NA	NA	NA	NA	10.48	6.00	4.48	NA
MW-9	1/6/1994	41,000	7,700 a	NA	15,000	810	1,400	9,000	NA	NA	NA	NA	NA	NA	10.48	5.62	4.86	NA
MW-9 (D)	1/6/1994	43,000	8,300 a	NA	15,000	920	1,300	8,000	NA	NA	NA	NA	NA	NA	10.48	5.62	4.86	NA
MW-9	4/12/1994	39,000	2,000	NA	8,300	ND	ND	4,000	NA	NA	NA	NA	NA	NA	10.48	4.31	6.17	NA
MW-9	7/25/1994	22,000	3,600 a	NA	7,500	150	ND	4,100	NA	NA	NA	NA	NA	NA	10.48	5.43	5.05	NA
MW-9	10/25/1994	31,000	3,200 a	NA	13,000	240	1,000	8,500	NA	NA	NA	NA	NA	NA	10.48	6.00	4.48	NA
MW-9 (D)	10/26/1994	31,000	3,500 a	NA	13,000	220	1,100	8,300	NA	NA	NA	NA	NA	NA	10.48	6.00	4.48	NA
MW-9	1/9/1995	4,800	2,300 a	NA	1,200	510	42	1,400	NA	NA	NA	NA	NA	NA	10.48	4.26	6.22	NA
MW-9	4/11/1995	20,000	3,400	NA	5,100	460	400	3,400	NA	NA	NA	NA	NA	NA	10.48	4.08	6.40	NA
MW-9	7/18/1995	43,000	2,900	NA	12,000	1,800	960	9,100	NA	NA	NA	NA	NA	NA	10.48	5.07	5.41	NA
MW-9	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.48	5.82	4.66	NA
MW-9	1/9/1996	64,000	2,800	NA	12,000	5,400	1,800	10,000	2100	NA	NA	NA	NA	NA	10.48	4.36	6.12	NA
MW-9	4/2/1996	39,000	NA	NA	10,000	100	520	4,100	<500	NA	NA	NA	NA	NA	10.48	3.86	6.62	NA
MW-9	10/3/1996	46,000	3,100	NA	12,000	180	1,400	6,700	2,300	NA	NA	NA	NA	NA	10.48	4.90	5.58	1.4
MW-9	4/3/1997	36,000	2,300	NA	9,700	140	580	3,900	<500	NA	NA	NA	NA	NA	10.48	3.98	6.50	1.8
MW-9	10/8/1997	34,000	3,500	NA	6,900	<100	830	4,500	<125	NA	NA	NA	NA	NA	10.48	4.17	6.31	0.8
MW-9	6/10/1998	20,000	2,500	NA	9,900	250	3,100	170	460	NA	NA	NA	NA	NA	10.48	3.84	6.64	0.3/0.4
MW-9	12/30/1998	30,100	1,900	NA	8,500	166	603	3,340	<100	NA	NA	NA	NA	NA	10.48	4.72	5.76	1.1/1.2
MW-9 *	6/25/1999	26,300	NA	NA	8,090	73.5	409	2,730	<100	NA	NA	NA	NA	NA	10.48	4.47	6.01	1.2/2.4
MW-9	12/28/1999	4,130	839	NA	1,260	57.9	103	213	1,470	NA	NA	NA	NA	NA	10.48	4.82	5.66	1.0/1.1
MW-9	5/31/2000	8,210	1,300	NA	9,290	62.3	141	908	565	NA	NA	NA	NA	NA	10.48	3.87	6.61	2.8/c
MW-9	10/17/2000	19,000	1,510 a	NA	5,420	54.5	479	2,680	<250	NA	NA	NA	NA	NA	10.48	3.87	6.61	3.0/3.5
MW-9	5/1/2001	24,300	976	NA	11,200	52.9	159	1,610	<250	NA	NA	NA	NA	NA	10.48	4.44	6.04	1.6/1.0
MW-9	5/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.48	3.99	6.49	1.9/1.5
MW-9	11/5/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.48	5.41	5.07	0.7
MW-9	11/7/2001	25,000	<1,000	NA	7,300	85	630	4,100	NA	<250	NA	NA	NA	NA	10.48	5.60	4.88	1.4/1.1
MW-9	5/1/2002	27,000	<700	NA	11,000	79	260	1,300	NA	<500	NA	NA	NA	NA	10.48	3.38	7.10	2.9/1.1
MW-9	7/16/2002	29,000	<700	NA	12,000	<50	74	810	NA	<500	NA	NA	NA	NA	10.48	4.04	6.44	0.7/0.4
MW-9	10/17/2002	15,000	<800	NA	10,000	31	36	490	NA	53	NA	NA	NA	NA	10.07	4.92	5.15	1.0/1.2
MW-9	1/21/2003	8,500	<400	NA	3,100	39	190	590	NA	<200	NA	NA	NA	NA	10.07	4.52	5.55	0.4/0.8
MW-9	5/1/2003	16,000 a	1,600 a	NA	4,900	<100	<100	1,500	NA	<1,000	NA	NA	NA	NA	10.07	4.05	6.02	NA

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Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-9	7/17/2003	14,000	1,300 a,f	NA	9,900	130	<120	2,300	NA	<120	NA	NA	NA	NA	10.07	4.82	5.25	NA
MW-9	10/2/2003	13,000	3,100 a	NA	8,500	190	770	5,100	NA	<100	NA	NA	NA	NA	10.07	5.17	4.90	NA
MW-9	1/5/2004	37,000	1,500 a	NA	15,000	250	750	3,800	NA	<100	NA	NA	NA	NA	10.07	3.94	6.13	NA
MW-9	4/1/2004	14,000	1,800 a	NA	6,800	80	230	1,800	NA	<50	NA	NA	NA	NA	10.07	4.24	5.83	NA
MW-9	8/2/2004	12,000	710 g	<500	8,200	<50	66	650	NA	<50	<200	<200	<200	<500	10.07	5.10	4.97	NA
MW-9	11/2/2004	15,000	1,500 g	<500	9,300	73	240	1,400	NA	70	NA	NA	NA	NA	10.07	4.21	5.86	NA
MW-9	1/10/2005	28,000	1,700 g	<500	7,400	1,100	1,400	5,400	NA	<50	NA	NA	NA	NA	10.07	3.45	6.62	NA
MW-9	4/13/2005	55,000	5,100 g	690	15,000	3,300	2,800	12,000	NA	<50	NA	NA	NA	NA	10.07	3.53	6.54	NA
MW-10	12/15/1989	ND	3,100	NA	1,500	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.45	6.33	0.82	NA
MW-10	3/8/1990	25,000	1,800	NA	17,000	330	2,100	1,400	NA	NA	NA	NA	NA	NA	7.45	5.41	2.00	NA
MW-10	4/18/1990	23,000	3,600	NA	15,000	1,200	190	3,300	NA	NA	NA	NA	NA	NA	7.45	5.60	1.85	NA
MW-10	7/23/1990	18,000	1,900	NA	12,000	380	ND	1,400	NA	NA	NA	NA	NA	NA	7.45	5.81	1.64	NA
MW-10	9/27/1990	9,500	430	NA	13,000	100	1,800	230	NA	NA	NA	NA	NA	NA	7.45	6.64	0.81	NA
MW-10	1/3/1991	4,300	630	NA	3,700	10	ND	110	NA	NA	NA	NA	NA	NA	7.45	6.96	0.49	NA
MW-10	4/10/1991	45,000	1,400	NA	16,000	4,600	3,000	6,900	NA	NA	NA	NA	NA	NA	7.45	4.70	2.75	NA
MW-10	7/12/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.45	5.90	1.55	NA
MW-10	10/8/1991	3,800	1,500 a	NA	13,000	82	9	500	NA	NA	NA	NA	NA	NA	7.45	6.68	0.77	NA
MW-10	2/6/1992	22,000	1,600 a	NA	12,000	ND	600	170	NA	NA	NA	NA	NA	NA	7.45	7.04	0.41	NA
MW-10	5/4/1992	39,000	8,000 a	NA	14,000	5,000	1,800	5,000	NA	NA	NA	NA	NA	NA	7.45	4.69	2.76	NA
MW-10	7/28/1992	38,000	8,700 a	NA	17,000	2,800	1,500	4,000	NA	NA	NA	NA	NA	NA	7.45	6.00	1.45	NA
MW-10	10/27/1992b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.45	NA	NA	NA
MW-10	1/14/1993	26,000	950 a	NA	10,000	ND	ND	160	NA	NA	NA	NA	NA	NA	7.45	6.07	1.38	NA
MW-10	4/23/1993	80,000	1,900 a	NA	21,000	13,000	3,400	12,000	NA	NA	NA	NA	NA	NA	7.45	4.14	3.31	NA
MW-10	7/20/1993	31,000	4,800	NA	14,000	4,200	1,700	5,500	NA	NA	NA	NA	NA	NA	10.61	5.62	4.99	NA
MW-10	10/18/1993	13,000	1,200 a	NA	8,600	220	ND	450	NA	NA	NA	NA	NA	NA	10.61	6.43	4.18	NA
MW-10	1/6/1994	16,000	670 a	NA	9,700	<125	<125	210	NA	NA	NA	NA	NA	NA	10.61	6.74	3.87	NA
MW-10	4/12/1994	16,000	860	NA	5,600	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	5.98	4.63	NA
MW-10	7/25/1994	2,300	2,100 a	NA	1,400	26	25	51	NA	NA	NA	NA	NA	NA	10.61	6.31	4.30	NA
MW-10	10/25/1994	1,400	1,000 a	NA	290	5	2	38	NA	NA	NA	NA	NA	NA	10.61	6.64	3.97	NA
MW-10	1/9/1995	16,000	2,300 a	NA	7,500	1,400	230	1,500	NA	NA	NA	NA	NA	NA	10.61	5.70	4.91	NA
MW-10	4/11/1995	54,000	5,000	NA	13,000	4,500	1,500	4,500	NA	NA	NA	NA	NA	NA	10.61	5.82	4.79	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-10	7/18/1995	72,000	2,600	NA	20,000	7,200	2,800	9,000	NA	NA	NA	NA	NA	NA	10.61	6.79	3.82	NA
MW-10	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	5.31	5.30	NA
MW-10	1/9/1996	32,000	2,100	NA	8,000	1,600	880	3,200	12,000	NA	NA	NA	NA	NA	10.61	5.92	4.69	NA
MW-10	4/2/1996	68,000	NA	NA	9,100	2,300	1,100	3,700	3,300	NA	NA	NA	NA	NA	10.61	5.43	5.18	NA
MW-10	10/3/1996	33,000	2,900	NA	11,000	1,300	830	2,400	7,300	NA	NA	NA	NA	NA	10.61	6.07	4.54	1.7
MW-10 (D)	10/3/1996	40,000	3,300	NA	12,000	1,700	1,100	3,100	6,500	NA	NA	NA	NA	NA	10.61	6.07	4.54	1.7
MW-10	4/3/1997	36,000	3,400	NA	12,000	2,300	1,400	4,500	2,300	NA	NA	NA	NA	NA	10.61	3.45	7.16	1.8
MW-10 (D)	4/3/1997	52,000	3,000	NA	12,000	2,300	1,400	4,500	2,100	NA	NA	NA	NA	NA	10.61	3.45	7.16	1.8
MW-10	10/8/1997	20,000	3,100	NA	7,500	420	470	1,300	1,500	NA	NA	NA	NA	NA	10.61	3.72	6.89	1.2
MW-10	6/10/1998	48,000	2,500	NA	14,000	2,600	1,500	4,800	1,800	NA	NA	NA	NA	NA	10.61	4.00	6.61	0.7/0.5
MW-10	12/30/1998	17,800	2,820	NA	6,000	136	344	639	1,250	NA	NA	NA	NA	NA	10.61	5.26	5.35	1.0/0.7
MW-10 *	6/25/1999	17,600	NA	NA	6,150	212	287	687	1,740	NA	NA	NA	NA	NA	10.61	4.49	6.12	0.9/2.5
MW-10	12/28/1999	10,800	1,400	NA	3,370	155	321	626	3,740	NA	NA	NA	NA	NA	10.61	4.87	5.74	1.2/1.4
MW-10	5/31/2000	3,020	2,270	NA	1,080	34.3	118	251	775	NA	NA	NA	NA	NA	10.61	3.48	7.13	2.8/3.9
MW-10	10/17/2000	15,500	1,750 a	NA	7,450	54.7	387	308	3,840	4,300	NA	NA	NA	NA	10.61	4.25	6.36	2.3/3.0
MW-10	5/1/2001	27,900	2,260	NA	9,920	1,050	1,020	2,370	2,180	NA	NA	NA	NA	NA	10.61	5.40	5.21	2.0/1.1
MW-10	5/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	3.74	6.87	3.70/1.8
MW-10	11/5/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	6.08	4.53	0.6
MW-10	11/7/2001	14,000	360	NA	5,300	260	430	810	NA	1,700	NA	NA	NA	NA	10.61	5.45	5.16	1.8/1.0
MW-10	5/1/2002	79,000	<1,500	NA	16,000	4,400	3,300	8,800	NA	890	NA	NA	NA	NA	10.61	4.62	5.99	4.0/0.5
MW-10	7/16/2002	21,000	<1,000	NA	6,500	350	460	1,000	NA	1,200	NA	NA	NA	NA	10.61	5.80	4.81	0.5/1.5
MW-10	10/17/2002	17,000	<1,800	NA	5,800	290	520	1,100	NA	980	NA	NA	NA	NA	9.81	5.27	4.54	0.8/1.2
MW-10	1/21/2003	52,000	<2,000	NA	13,000	2,000	2,100	4,800	NA	<1,000	NA	NA	NA	NA	9.81	5.72	4.09	0.3/0.6
MW-10	5/1/2003	40,000	3,800 a	NA	13,000	1,700	2,200	5,000	NA	2,900	NA	NA	NA	NA	9.81	4.29	5.52	NA
MW-10	7/17/2003	13,000	1,700 a,f	NA	7,200	250	740	1,500	NA	2,400	NA	NA	NA	NA	9.81	5.05	4.76	NA
MW-10	10/2/2003	<5,000	1,400 a	NA	2,700	<50	56	<100	NA	2,800	NA	NA	NA	NA	9.81	5.46	4.35	NA
MW-10	1/5/2004	77,000	2,300 a	NA	21,000	4,200	3,900	8,500	NA	1,900	NA	NA	NA	NA	9.81	3.52	6.29	NA
MW-10	4/1/2004	33,000	3,100 a	NA	11,000	1,000	1,600	3,600	NA	5,200	NA	NA	NA	NA	9.81	4.12	5.69	NA
MW-10	8/2/2004	9,900	1,100 a	570	4,100	140	500	700	NA	3,800	<100	<100	<100	710	9.81	5.35	4.46	NA
MW-10	11/2/2004	48,000	3,500 g	<500	16,000	1,400	3,100	6,000	NA	3,100	NA	NA	NA	NA	9.81	5.06	4.75	NA
MW-10	1/10/2005	120,000	4,200 g	<500	21,000	20,000	5,400	22,000	NA	16,000	NA	NA	NA	NA	9.81	3.14	6.67	NA
MW-10	4/13/2005	83,000	9,100 g	<1,000	22,000	13,000	5,500	18,000	NA	22,000	NA	NA	NA	NA	9.81	3.12	6.69	NA

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Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-11	7/20/1993	50	ND	NA	2.5	1.9	3.9	18	NA	NA	NA	NA	NA	NA	10.56	8.08	2.48	NA
MW-11	10/18/1993	ND	65	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.24	2.32	NA
MW-11	1/6/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.47	2.09	NA
MW-11	4/12/1994	ND	ND	NA	1.1	0.87	ND	1.5	NA	NA	NA	NA	NA	NA	10.56	8.44	2.12	NA
MW-11	7/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.20	2.36	NA
MW-11	10/25/1994	ND	100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.67	1.89	NA
MW-11	1/9/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	7.63	2.93	NA
MW-11	4/11/1995	ND	140	NA	ND	0.7	ND	0.5	NA	NA	NA	NA	NA	NA	10.56	8.06	2.50	NA
MW-11	7/18/1995	ND	50	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	9.31	1.25	NA
MW-11	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.34	2.22	NA
MW-11	1/9/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.56	8.22	2.34	NA
MW-11	4/2/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.56	7.97	2.59	NA
MW-11	10/3/1996	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.56	8.37	2.19	3.6
MW-11	4/3/1997	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.56	8.31	2.25	2.2
MW-11	10/8/1997	<50	54	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.56	8.58	2.00	1.2
MW-11	6/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.85	2.71	NA
MW-11	12/30/1998	<50.0	66.2	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	10.56	8.51	2.05	0.7/0.6
MW-11	6/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.01	2.55	NA
MW-11	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.56	8.39	2.17	0.8/1.0
MW-11	5/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.38	3.18	NA
MW-11	10/17/2000	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	10.56	8.35	2.21	4.1/4.0
MW-11	5/1/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.15	2.41	NA
MW-11	11/5/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	NA	NA	NA
MW-11	5/1/2002	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	NA	NA	NA
MW-11	5/8/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.56	7.82	2.74	1.0/1.1
MW-11	7/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.64	2.92	NA
MW-11	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	7.95	NA	1.3/1.0
MW-11	1/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.57	NA	NA
MW-11	5/1/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	7.62	NA	NA
MW-11	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.93	NA	NA
MW-11	10/2/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.56	NA	NA

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Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-11	1/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.03	NA	NA
MW-11	4/1/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.55	NA	NA
MW-11	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.50	NA	NA
MW-11	11/2/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.41	NA	NA
MW-11	1/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.45	NA	NA
MW-11	4/13/2005	<50	84 a	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.35	NA	NA
MW-12	7/20/1993	ND	1,500	NA	2.8	1.9	3.2	ND	NA	NA	NA	NA	NA	NA	9.56	6.76	2.80	NA
MW-12	10/18/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	7.12	2.44	NA
MW-12	1/6/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	7.15	2.41	NA
MW-12	4/12/1994	ND	ND	NA	0.61	ND	ND	1.1	NA	NA	NA	NA	NA	NA	9.56	6.68	2.88	NA
MW-12	7/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	6.83	2.73	NA
MW-12	10/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	7.34	2.22	NA
MW-12	1/9/1995	ND	80 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	5.02	4.54	NA
MW-12	4/11/1995	ND	200	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	7.38	2.18	NA
MW-12	7/18/1995	ND	90	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	8.50	1.06	NA
MW-12	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	6.63	2.93	NA
MW-12	1/9/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	9.56	6.32	3.24	NA
MW-12	4/2/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	9.56	5.60	3.96	NA
MW-12	10/3/1996	<50	72	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	9.56	3.30	6.26	2.5
MW-12	4/3/1997	<50	74	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	9.56	6.13	3.43	2.2
MW-12	10/8/1997	<50	73	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	9.56	6.49	3.07	3.0
MW-12	6/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	5.85	3.71	NA
MW-12	12/30/1998	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	9.56	8.42	1.14	1.3/0.9
MW-12	6/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	7.89	1.67	NA
MW-12	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	9.56	8.26	1.30	1.0/1.2
MW-12	5/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	7.21	2.35	NA
MW-12	10/17/2000	<50.0	82.9 a	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	9.56	6.80	2.76	5.1/3.0
MW-12	5/1/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	5.95	3.61	NA
MW-12	11/5/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	NA	NA	NA
MW-12	5/1/2002	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	NA	NA	NA
MW-12	5/8/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	9.56	4.75	4.81	1.2/0.9

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285 Hegenberger Road
Oakland, CA

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MW-12	7/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	4.88	4.68	NA
MW-12	10/17/2002	<50	81	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	5.11	NA	1.8/1.5
MW-12	1/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.76	NA	NA
MW-12	5/11/2003	<50	95 a	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	5.00	NA	NA
MW-12	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.85	NA	NA
MW-12	10/2/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	5.02	NA	NA
MW-12	1/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.95	NA	NA
MW-12	4/1/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	5.04	NA	NA
MW-12	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.42	NA	NA
MW-12	11/2/2004	<50	150 h	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	4.55	NA	NA
MW-12	1/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.81	NA	NA
MW-12	4/13/2005	<50	120 a	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	4.01	NA	NA
MW-13	7/20/1993	ND	1,500	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.32	1.78	NA
MW-13 (D)	7/21/1993	ND	1,000	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.32	1.78	NA
MW-13	10/18/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.66	1.44	NA
MW-13	1/6/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.70	1.40	NA
MW-13	4/12/1994	ND	100	NA	1.7	1.2	0.59	2.4	NA	NA	NA	NA	NA	NA	10.10	8.20	1.90	NA
MW-13	7/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.39	1.71	NA
MW-13	10/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.70	1.40	NA
MW-13	1/9/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	7.35	2.75	NA
MW-13	4/11/1995	ND	320	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	5.50	4.60	NA
MW-13	7/18/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	6.63	3.47	NA
MW-13	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.12	1.98	NA
MW-13	1/9/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.10	7.74	2.36	NA
MW-13	4/2/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.10	6.30	3.80	NA
MW-13	10/3/1996	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.10	6.50	3.60	3.0
MW-13	4/3/1997	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.10	7.58	2.52	2.0
MW-13	10/8/1997	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.10	8.17	1.93	1.0
MW-13	6/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	7.54	2.56	NA
MW-13	12/30/1998	<50.0	69.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	10.10	6.91	3.19	1.1/0.8
MW-13	6/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	6.31	3.79	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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MW-13	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.10	6.65	3.45	0.8/1.0
MW-13	5/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	5.94	4.16	NA
MW-13	10/17/2000	<50.0	121 a	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	10.10	8.38	1.72	2.5/2.8
MW-13	5/1/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	7.65	2.45	NA
MW-13	11/5/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	NA	NA	NA
MW-13	5/1/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.10	6.80	3.30	3.5/3.5
MW-13	7/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	6.84	3.26	NA
MW-13	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	9.64	6.73	2.91	1.4/0.9
MW-13	1/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	6.99	2.65	NA
MW-13	5/1/2003	<50	<50	NA	3.4	0.75	1.1	2.7	NA	<5.0	NA	NA	NA	NA	9.64	6.62	3.02	NA
MW-13	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.99	3.65	NA
MW-13	10/2/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	9.64	6.81	2.83	NA
MW-13	1/5/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.98	3.66	NA
MW-13	4/1/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	9.64	5.09	4.55	NA
MW-13	8/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.49	4.15	NA
MW-13	11/2/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	9.64	5.99	3.65	NA
MW-13	1/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.63	4.01	NA
MW-13	4/13/2005	<50	72 a	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	9.64	6.00	3.64	NA
VEW-5	9/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.91	NA	NA
VEW-5	10/17/2000	74,800	4,180 a	NA	9,090	14,600	2,630	14,500	632	NA	NA	NA	NA	NA	NA	2.65	NA	3.0/3.1
VEW-5	5/1/2001	94,800	5,350	NA	11,300	12,900	4,520	22,200	419	NA	NA	NA	NA	NA	NA	2.86	NA	0.4/0.6
VEW-5	11/5/2001	82,000	<1,600	NA	14,000	7,400	2,900	15,000	NA	740	NA	NA	NA	NA	NA	4.11	NA	0.6/c
VEW-5	5/1/2002	16,000	<3,000	NA	610	320	7.9	3,600	NA	310	NA	NA	NA	NA	NA	2.63	NA	4.7/2.9
VEW-5	7/16/2002	45,000	<3,000	NA	7,900	2,700	1,000	4,600	NA	920	NA	NA	NA	NA	NA	2.96	NA	0.4/0.3
VEW-5	10/17/2002	<50	200	NA	<0.50	<0.50	<0.50	<0.50	NA	46	NA	NA	NA	NA	8.81	3.55	5.26	1.1/1.0
VEW-5	1/21/2003	740	1,200	NA	53	22	17	70	NA	17	NA	NA	NA	NA	8.81	2.06	6.75	1.6/0.5
VEW-5	5/1/2003	1,500	1,000 a	NA	140	92	120	290	NA	11	NA	NA	NA	NA	8.81	2.34	6.47	NA
VEW-5	7/17/2003	4,200	1,400 a,f	NA	630	1,300	360	1,400	NA	38	NA	NA	NA	NA	8.81	3.36	5.45	NA
VEW-5	10/2/2003	10,000	3,500 a	NA	690	1,200	420	1,800	NA	54	NA	NA	NA	NA	8.81	3.65	5.16	NA
VEW-5	1/5/2004	180	530 a	NA	5.0	0.73	6.5	11	NA	1.9	NA	NA	NA	NA	8.81	2.02	6.79	NA
VEW-5	4/1/2004	2,800	2,500 a	NA	520	23	260	290	NA	55	NA	NA	NA	NA	8.81	2.77	6.04	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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VEW-5	8/2/2004	8,900	3,800 a	550	790	74	600	1,600	NA	62	<40	<40	<40	<100	8.81	3.55	5.26	NA
VEW-5	11/2/2004	1,200	830 g	<500	72	5.8	83	100	NA	11	NA	NA	NA	NA	8.81	2.89	5.92	NA
VEW-5	1/10/2005	<50	320 a	700	<0.50	<0.50	<0.50	2.0	NA	0.56	NA	NA	NA	NA	8.81	1.14	7.67	NA
VEW-5	4/13/2005	270	540 a	1,100	23	1.4	11	15	NA	2.0	NA	NA	NA	NA	8.81	2.17	6.64	NA
VEW-6	9/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.94	NA	NA
VEW-6	10/17/2000	63,800	4,820 a	NA	6,940	2,750	2,760	18,700	3,700	NA	NA	NA	NA	NA	NA	3.13	NA	2.0/2.1
VEW-6	5/1/2001	57,000	3,460	NA	6,280	697	2,640	15,800	6,240	NA	NA	NA	NA	NA	NA	3.25	NA	0.8/1.2
VEW-6	5/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.17	NA	3.0/1.7
VEW-6	11/5/2001	39,000	<1,300	NA	6,800	380	1,900	7,900	NA	8,800	NA	NA	NA	NA	NA	4.35	NA	0.8/1.3
VEW-6	5/1/2002	24,000	<4,500	NA	1,800	270	470	3,700	NA	3,100	NA	NA	NA	NA	NA	2.73	NA	0.2/0.4
VEW-6	7/16/2002	19,000	<2,700	NA	1,900	250	140	3,500	NA	2,900	NA	NA	NA	NA	NA	3.59	NA	0.3/0.2
VEW-6	10/17/2002	<50	110	NA	<0.50	<0.50	<0.50	<0.50	NA	13	NA	NA	NA	NA	9.33	4.33	5.00	0.9/1.3
VEW-6	1/21/2003	900	<500	NA	30	1.1	20	61	NA	110	NA	NA	NA	NA	9.33	3.08	6.25	4.6/5.6
VEW-6	5/1/2003	1,100 a	290 a	NA	41	<5.0	58	66	NA	89	NA	NA	NA	NA	9.33	2.79	6.54	NA
VEW-6	7/17/2003	3,100	1,400 a,f	NA	400	30	280	820	NA	1,400	NA	NA	NA	NA	9.33	3.80	5.53	NA
VEW-6	10/2/2003	2,100	1,200 a	NA	310	37	200	420	NA	1,500	NA	NA	NA	NA	9.33	4.10	5.23	NA
VEW-6	1/5/2004	320	170 a	NA	4.9	0.54	3.3	18	NA	68	NA	NA	NA	NA	9.33	2.31	7.02	NA
VEW-6	4/1/2004	450	270 a	NA	44	1.6	23	24	NA	180	NA	NA	NA	NA	9.33	2.87	6.46	NA
VEW-6	8/2/2004	Well Inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.33	NA	NA	NA
VEW-6	11/2/2004	910	210 g	<500	35	1.4	39	79	NA	74	NA	NA	NA	NA	9.33	3.26	6.07	NA
VEW-6	1/10/2005	110	150 a	<500	1.3	<0.50	1.3	3.3	NA	4.7	NA	NA	NA	NA	9.33	2.01	7.32	NA
VEW-6	4/13/2005	98	330 a, j, k	1,000 j, k	10	<0.50	2.4	2.6	NA	77	NA	NA	NA	NA	9.33	2.05	7.28	NA
VEW-7	9/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.59	NA	NA
VEW-7	10/17/2000	74,300	3,990 a	NA	11,900	12,500	1,640	15,500	36,600	NA	NA	NA	NA	NA	NA	3.72	NA	3.5/4.1
VEW-7	5/1/2001	46,000	1,930	NA	7,250	5,300	1,960	9,820	15,600	16,900	NA	NA	NA	NA	NA	3.40	NA	0.8/0.8
VEW-7	5/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.54	NA	2.5/1.4
VEW-7	11/5/2001	38,000	<900	NA	9,300	610	1,700	6,000	NA	21,000	NA	NA	NA	NA	NA	4.85	NA	3.52/c
VEW-7	5/1/2002	590	<600	NA	6.3	7.2	<2.5	81	NA	1,100	NA	NA	NA	NA	NA	2.62	NA	2.9/3.3
VEW-7	7/16/2002	95	54	NA	1.5	<0.50	1.5	6.1	NA	100	NA	NA	NA	NA	NA	3.84	NA	3.6/2.5
VEW-7	10/17/2002	<50	110	NA	1.4	<0.50	<0.50	<0.50	NA	34	NA	NA	NA	NA	9.49	4.93	4.56	3.0/1.9

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

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VEW-7	1/21/2003	<50	180	NA	0.88	<0.50	<0.50	4.2	NA	19	NA	NA	NA	NA	9.49	3.27	6.22	0.3/0.8
VEW-7	5/1/2003	2,200	1,000 a	NA	62	8.0	230	80	NA	360	NA	NA	NA	NA	9.49	2.95	6.54	NA
VEW-7	7/17/2003	<1,200	590 a,f	NA	97	19	150	110	NA	830	NA	NA	NA	NA	9.49	3.94	5.55	NA
VEW-7	10/2/2003	800	1,300 a	NA	78	11	170	49	NA	1,200	NA	NA	NA	NA	9.49	5.00	4.49	NA
VEW-7	1/5/2004	2,500	970 a	NA	120	13	86	300	NA	660	NA	NA	NA	NA	9.49	2.82	6.67	NA
VEW-7	4/1/2004	4,700	1,500 a	NA	100	42	240	680	NA	830	NA	NA	NA	NA	9.49	2.99	6.50	NA
VEW-7	8/2/2004	1,100	830 a	<500	60	6.5	30	120	NA	920	<20	<20	<20	430	9.49	4.45	5.04	NA
VEW-7	11/2/2004	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.49	NA	NA	NA
VEW-7	11/4/2004	7,900	2,700 g	<500	410	26	280	1,100	NA	2,100	NA	NA	NA	NA	9.49	3.57	5.92	NA
VEW-7	1/10/2005	1,200	690 g	<500	110	<5.0	49	73	NA	530	NA	NA	NA	NA	9.49	2.26	7.23	NA
VEW-7	4/13/2005	760	280 a	530	18	3.3	28	84	NA	120	NA	NA	NA	NA	9.49	2.28	7.21	NA

AS-1	9/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.67	NA	NA
AS-1	10/17/2000	13,400	3,280 a	NA	1,600	82.8	<20.0	2,600	498	NA	NA	NA	NA	NA	NA	5.50	NA	2.0/2.5
AS-1	5/1/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AS-1	11/5/2001	5,300	<900	NA	85	26	46	120	NA	190	NA	NA	NA	NA	NA	6.11	NA	0.4/0.5
AS-1	5/1/2002	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.73	NA	NA
AS-1	7/16/2002	210	<150	NA	8.2	<0.50	7.9	3.5	NA	25	NA	NA	NA	NA	NA	5.59	NA	4.6/2.8
AS-1	10/17/2002	Well dry		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.23	NA	NA	NA
AS-1	1/21/2003	<50	220	NA	0.62	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	8.23	9.51	-1.28	2.2/2.5
AS-1	5/1/2003	79	96 a	NA	2.2	0.99	5.1	4.8	NA	<5.0	NA	NA	NA	NA	8.23	5.75	2.48	NA
AS-1	7/17/2003	<50	79 a,f	NA	1.2	0.60	0.95	1.7	NA	3.6	NA	NA	NA	NA	8.23	5.90	2.33	NA
AS-1	10/2/2003	440	99 a	NA	12	49	22	94	NA	3.5	NA	NA	NA	NA	8.23	5.90	2.33	NA
AS-1	1/5/2004	<50	76 a	NA	0.75	<0.50	0.70	<1.0	NA	2.4	NA	NA	NA	NA	8.23	5.64	2.59	NA
AS-1	4/1/2004	<50	<50	NA	0.79	<0.50	<0.50	<1.0	NA	3.2	NA	NA	NA	NA	8.23	5.86	2.37	NA

AS-2	9/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.38	NA	NA
AS-2	10/17/2000	4,380	1,380 a	NA	167	<10.0	225	680	315	NA	NA	NA	NA	NA	NA	5.50	NA	3.1/3.0
AS-2	5/1/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AS-2	11/5/2001	2,200	<300	NA	100	0.99	91	21	NA	220	NA	NA	NA	NA	NA	5.99	NA	0.8/0.6
AS-2	5/1/2002	880	<300	NA	19	<0.50	31	22	NA	57	NA	NA	NA	NA	NA	5.25	NA	1.0/0.8
AS-2	7/16/2002	910	<200	NA	40	4.1	39	43	NA	78	NA	NA	NA	NA	NA	5.53	NA	0.7/0.9

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
AS-2	10/17/2002	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.65	NA	NA	NA
AS-2	1/21/2003	<50	140	NA	1.4	<0.50	2.0	0.94	NA	19	NA	NA	NA	NA	8.65	9.32	-0.67	1.4/1.6
AS-2	5/1/2003	56	120 a	NA	2.1	<0.50	4.7	<1.0	NA	12	NA	NA	NA	NA	8.65	6.74	1.91	NA
AS-2	7/17/2003	180	80 a,f	NA	11	0.56	34	13	NA	23	NA	NA	NA	NA	8.65	6.40	2.25	NA
AS-2	10/2/2003	320	190 a	NA	8.5	6.3	24	25	NA	21	NA	NA	NA	NA	8.65	6.20	2.45	NA
AS-2	1/5/2004	210	160 a	NA	1.4	<0.50	21	1.6	NA	15	NA	NA	NA	NA	8.65	6.32	2.33	NA
AS-2	4/1/2004	200	130 a	NA	0.87	<0.50	17	<1.0	NA	18	NA	NA	NA	NA	8.65	6.15	2.50	NA
AS-3	9/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.75	NA	NA
AS-3	10/17/2000	3,520	942 a	NA	588	521	41.2	566	1,740	NA	NA	NA	NA	NA	NA	6.18	NA	3.1/3.0
AS-3	5/1/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AS-3	11/5/2001	1,600	110	NA	41	4.9	8.2	30	NA	240	NA	NA	NA	NA	NA	6.41	NA	1.1/3.2
AS-3	5/1/2002	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.90	NA	NA
AS-3	7/16/2002	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AS-3	10/17/2002	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.84	14.78	-5.94	NA
AS-3	1/21/2003	<50	320	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	8.84	11.59	-2.75	2.2/1.1
AS-3	5/1/2003	57	150 a	NA	0.53	<0.50	4.7	2.7	NA	<5.0	NA	NA	NA	NA	8.84	6.44	2.40	NA
AS-3	7/17/2003	<50	110 a,f	NA	0.83	2.1	2.4	5.4	NA	2.5	NA	NA	NA	NA	8.84	6.55	2.29	NA
AS-3	10/2/2003	<50	96 a	NA	2.9	3.9	8.4	15	NA	8.1	NA	NA	NA	NA	8.84	6.55	2.29	NA
AS-3	1/5/2004	<50	120 a	NA	<0.50	<0.50	<0.50	<1.0	NA	1.5	NA	NA	NA	NA	8.84	6.47	2.37	NA
AS-3	4/1/2004	<50	110 a	NA	<0.50	<0.50	<0.50	<1.0	NA	2.8	NA	NA	NA	NA	8.84	6.32	2.52	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to November 5, 2001, analyzed by EPA Method 8015.

TEPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to November 5, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

DIPE = Di-Isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

TOB = Top of Wellbox

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

n/n = Dissolved oxygen reading; pre-purge/post-purge.

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	--------------------------	-----------------------------	-------------	-------------	-------------	-------------	---------------------	---------------------	----------------	----------------	----------------	---------------	--------------	-------------------------	-----------------------	---------------------

Notes:

- a = Chromatogram pattern indicates an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.
 - b = Sample was analyzed outside of EPA recommended holding time.
 - c = Post-purge DO reading not taken.
 - d = Lab did not record detected result.
 - e = Change in casing elevation due to wellhead maintenance.
 - f = TEPH with Silica Gel Cleanup.
 - g = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's standard.
 - h = Hydrocarbon reported is in the late Diesel range and does not match the laboratory's standard.
 - i = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.
 - j = Samples were re-extracted past EPA recommended holding time.
 - k = Surrogate recoveries lower than acceptance limits.
- * All Diesel and motor oil samples for this event were lost in laboratory fire.
- Site surveyed, except wells MW-11 and MW-12, on March 18, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

ATTACHMENT C
Field Data Sheets

DPE TEST DATA FORM

Site Address: 285 Hegenberger Road, Oakland

Project No. 247-0734-007

Incident No. 98995749

Date: 4/18 - 4/19

Technician: Dan & Trey

Project Mgr: Cynthia Vasko

Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (in Hg)	System Vac (in Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (inWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)	Radius of Influence (DTW or Vacuum. Note units)								
										MW-3 (inWC)	MW-4 (inWC)	VEW-7 (inWC)	TEMP CONTROL	PH TEMP CONTROL				
4/18																		
11:53	3139.5		51.1	SOURCE UNIT, VAPOR UNIT				DEWATER UN-10		DTW → 3.92	5.44	2.73						
12:30	3140.1	10.5	12.5	}	13.99	5.8	123.7	624										
1:00	3140.6	5	7.5		10	6.0	6.5	26										
1:30	3141.2	12	10.8		OR	5.0	14.5	16										
1:45	3141.4	15	14		OR	50.0	100	290										
2:00	3141.7	18.5	16.5		74.6	7.5	117.4	206										
2:15	3141.9	18.5	16.5		107	8.3	117.8	237										
2:30	3142.2	18.5	16.5		77.4	6.7	120.4	242										
3:00	COLLECTED VAPOR SAMPLE "MN-10A"																	
4/19										DTW → 3.72'	5.24	2.94						
8:45	3160.5	21	17.8		102.5	21	223	86				0.1	0.0	800	724			
9:15	3161.0	20.5	17.9		120.	25.3	227.7	71				0.0	0.0	791	725			
9:45	3161.5	19.0	18.1		102.0	15.6	229.5	249				0.0	0.0	792	724			
10:15	3162.0	20.0	18.0		97.0	13.9	232.8	270				0.0	0.0	840	723			
10:45	3162.5	18.0	18.0		126.5	16.5	228.5	377				0.0	0.0	795	726			
11:15	3163.1	18.0	18.0		128.0	11.8	228.8	403				0.0	0.0	813	721			
11:45	3163.6	17.5	17.4		130+	9.0	226	435				0.1	0.1	800	717			
12:15	3164.1	19.5	17.6		130+	8.1	233.0	427				0.0	0.0	815	721			
12:45	3164.6	19.5	17.2		130+	3.5	218.6	300		DTW	3.71'	5.17	2.87	812	729			

NOTES: ~~GAUGE ON SYSTEM IS OFF~~

- ① VACUUM GAUGE ON SOURCE UNIT IS INCORRECT. USE DIGITAL JAE GAUGE
- ② DAP PLAN NOT READING. WIRE PHOTO COUPE. SYSTEM FLOW NOT REQUIRED IF WELL, DILUTION FLOW MAXIMIZABLE

DPE TEST DATA FORM

Site Address: 285 Hegenberger Road, Oakland

Project No. 247-0734-007

Incident No. 98995749

Date: 4/20/05

Technician: _____

Project Mgr: Cynthia Vasko

Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (in Hg)	System Vac (in Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (inWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)		MW-3 (inWC)	Radius of Influence (DTW or Vacuum. Note units.)						
												MW-4 (inWC)	VEW-7 (inWC)	WV-1 (inWC)	WV-2 (inWC)			
4/20																		
9:45	3185.7	19	17.16		OR	8.4	211.7	48		DTW	5.81'	4.91'	3.10'			837	713	
10:15	3186.3	19	17.26		OR	7.5	213.4	46				0.1	0.0			848	714	
10:45	3186.7	19	17.21		OR	5	213.6	40				0.0	0.0			816	717	
11:00	3187.0	20.5	11.1		123.5	5.1	150.4	99				0.0	0.0			825	713	
11:30	3187.5	20	10.9		127.5	11	143.9	54				0.0	0.0			839	719	
12:00	3188.0	20	10.6		129.5	10.9	134.0	36				0.0	0.0			784	722	
12:30	3188.5	21	10.5		122	8	115	61	Collected Sample MW-10C			0.0	0.1			793	722	
1:00	3189.0	23	10.3		114	5	135	50		DTW	3.81	4.92'	3.11'			815	719	
4/21																		
9:00	3209.1	23.5	10.0		72.8	3.8	124	65		DTW	3.85'	4.89'	3.09'					
9:30	3209.6	23.5	9.55		57.0	8.0	126.5	53			3.85'	0.0	0.0			848	717	
10:00	3210.1	23.0	12.2		70.0	19.3	163.7	151								831	712	
10:30	3210.6	23.0	12.4		70.5	20.2	159.4	128				0.0	0.0			835	721	
10:45	3210.8	23.5	13.6		120	9.1	176.3	441	Note: 384 @ 10:50 after opening valve @ wellhead to lower			0.0	0.0			824	722	
11:00	3211.1	23.5	13.6		66.9	25.1	177.8	205								859	717	
11:30	3211.6	23.5	13.6		105	24.5	177.4	256				0.0	0.0			859	717	
12:00	3212.1	23.5	11.3		64.5	35.0	151.0	135								858	718	
12:15	3212.3	23.6	11.4		42.5	46.8	152.4	130								840	721	
12:30	3212.6	23.6	11.4		58.0	33.3	149.5	110				0.0	0.0			800	721	
1:00	3213.1	23.5	11.2		44.5	37.0	148.2	71								822	713	
12:55	Collected sample MW-10D Left system running.																	

NOTES: 4/21
 8:00 AM: KNOW LOW TANK NEAR FULL. PUMP DOWN UNTIL POLY TANK FULL (= 500 GALLONS). CHECK THE VAC TWICE
 9:45 AM: OPEN THROTTLE TO INCREASE WELLHEAD VAC TO ~160.
 11:20: ONLY onsite. Empty poly tank. Manual pump from knock out tank. Secure hose to poly tank - pump back to auto mode
 VS25 to SSO gal removed
 11:55: Throttle valve back slightly to reduce wellhead vacuum.

DPE TEST DATA FORM

Site Address: 285 Hegenberger Road, Oakland
 Project No. 247-0734-007
 Incident No. 98995749

Date: 4/22/05 / 4/23/05
 Technician: Trey / Cynthia
 Project Mgr: Cynthia Vasko

Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (In Hg)	System Vac (In Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (InWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)		Radius of Influence (DTW or Vacuum, Note units.)				
											MW-3 (InWC)	MW-4 (InWC)	VEV-7 (InWC)		
8:15	3232.6	25	9.48		120	25	134.6	700		DTW	3.85'	4.91'	3.00'	848	718
8:45	3233.1	26	14.7		95	32	177	120				0.0	0.0	858	708
9:15	3233.6	22.5	14.0		84	31.5	173	6,000				0.0	0.0	859	712
9:45	3234.1	26	16		129	37	170	1850				0.0	0.0	819	727
10:15	3234.6	26	16.9		110	5*	191	140				0.0	0.0	789	719
10:45	3235.1	26	16.8		129	3*	190	185				0.0	0.0	805	703
11:15	3235.6	26	16.9		127	18.5	191	160				0.0	0.0	856	699
11:45	3236.1	23	7.6		118	25.8	112	55				0.0	0.0	851	710
12:15	3236.6	22.5	7.8		116	29	113	52				0.0	0.0	853	717
12:45	3237.1	24	10.4		125	15	154	335		DTW	3.84	4.89	2.97		
4/23 Raining - Lightly															
8:00	3256.5	23.7	11.0		50.5	49.0	140.0	94						813	713
8:20	3256.8	23.5	13.0		54.0	48.5	163.5	284		* open vent				855	713
4/24															
1:45	3286.5	23.7	13.1		65.4	31.1	176.5	210		DTW	3.96	4.86'	3.24'		
2:15	3287.0	23.5	13.1		46.5	35.8	172.0	212				0.0	0.0	799	722
2:30	3287.3	23.8	13.1		45.2	41.9	170.1	234				0.0	0.0	804	718
2:45	3287.5	23.7	13.1		44.5	36.2	170.5	247				0.0	0.0	858	719
3:00	3287.8	23.5	13.1		48.5	29.1	170.7	195				4.86'	3.24'	799	720
3:10	Sample 2 shut down, X-tet tank is FULL!														

NOTES: * wet flow

4/23 - knockout tank full, X-tet tank has ~300 gal. Drain knockout into 55 gal drum. Return hose to X-tet tank.

ATTACHMENT D

Certified Laboratory Analytical Reports

Cambria Environmental Emeryville

April 26, 2005

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

Project#: 247-07364-007

Project: 98995749

Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Vasko:

Attached is our report for your samples received on 04/18/2005 16:36

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/02/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,

Melissa Brewer
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007

98995749

Received: 04/18/2005 16:36

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10A	04/18/2005 15:00	Air	1

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 16:06

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007

98995749

Received: 04/18/2005 16:36

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-10A	Lab ID: 2005-04-0508 - 1
Sampled: 04/18/2005 15:00	Extracted: 4/21/2005 10:51
Matrix: Air	QC Batch#: 2005/04/21-1A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	33	9.8	ppmv	1.00	04/21/2005 10:51	
Benzene	1.1	0.31	ppmv	1.00	04/21/2005 10:51	
Toluene	0.99	0.26	ppmv	1.00	04/21/2005 10:51	
Ethylbenzene	0.25	0.23	ppmv	1.00	04/21/2005 10:51	
Total xylenes	0.74	0.23	ppmv	1.00	04/21/2005 10:51	
Methyl tert-butyl ether (MTBE)	1.2	0.14	ppmv	1.00	04/21/2005 10:51	
Surrogate(s)						
1,2-Dichloroethane-d4	109.0	76-130	%	1.00	04/21/2005 10:51	
Toluene-d8	97.9	78-115	%	1.00	04/21/2005 10:51	

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007

98995749

Received: 04/18/2005 16:36

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/04/21-1A.68-031

Water

Test(s): 8260B

QC Batch # 2005/04/21-1A.68

Date Extracted: 04/21/2005 07:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/21/2005 07:31	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/21/2005 07:31	
Benzene	ND	0.5	ug/L	04/21/2005 07:31	
Toluene	ND	0.5	ug/L	04/21/2005 07:31	
Ethylbenzene	ND	0.5	ug/L	04/21/2005 07:31	
Total xylenes	ND	1.0	ug/L	04/21/2005 07:31	
Surrogates(s)					
1,2-Dichloroethane-d4	95.8	73-130	%	04/21/2005 07:31	
Toluene-d8	93.6	81-114	%	04/21/2005 07:31	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 16:06

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/18/2005 16:36

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/21-1A.68

LCS 2005/04/21-1A.68-014
LCSD

Extracted: 04/21/2005

Analyzed: 04/21/2005 07:14

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.7		25	94.8			65-165	20		
Benzene	23.0		25	92.0			69-129	20		
Toluene	24.3		25	97.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	418		500	83.6			73-130			
Toluene-d8	488		500	97.6			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 16:06

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/18/2005 16:36

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/21-1A.68

MS/MSD

Lab ID: 2005-04-0214 - 004

MS: 2005/04/21-1A.68-039

Extracted: 04/21/2005

Analyzed: 04/21/2005 09:39

Dilution: 1.00

MSD: 2005/04/21-1A.68-057

Extracted: 04/21/2005

Analyzed: 04/21/2005 09:57

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	42.0	41.4	16.6	25	101.6	165.6	47.9	65-165	20		M4,R1
Benzene	22.2	22.9	ND	25	88.8	91.6	3.1	69-129	20		
Toluene	23.9	24.5	ND	25	95.6	98.0	2.5	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	456	418		500	91.2	83.6		73-130			
Toluene-d8	479	481		500	95.8	96.2		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 16:06

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007

98995749

Received: 04/18/2005 16:36

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Result Flag

M4

MS/MSD spike recoveries were above acceptance limits.
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

Cambria Environmental Emeryville

April 26, 2005

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

Project#: 247-07364-007

Project: 98995749

Site: 285 Hegenberger Rd., Oakland

Dear Ms. Vasko:

Attached is our report for your samples received on 04/19/2005 14:15

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/03/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/19/2005 14:15

Site: 285 Hegenberger Rd., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10B	04/19/2005 12:40	Air	1

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 15:58

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/19/2005 14:15

Site: 285 Hegenberger Rd., Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-10B	Lab ID: 2005-04-0558 - 1
Sampled: 04/19/2005 12:40	Extracted: 4/21/2005 08:09
Matrix: Air	QC Batch#: 2005/04/21-1A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	45	9.8	ppmv	1.00	04/21/2005 08:09	
Benzene	2.1	0.31	ppmv	1.00	04/21/2005 08:09	
Toluene	2.0	0.26	ppmv	1.00	04/21/2005 08:09	
Ethylbenzene	0.42	0.23	ppmv	1.00	04/21/2005 08:09	
Total xylenes	1.5	0.23	ppmv	1.00	04/21/2005 08:09	
Methyl tert-butyl ether (MTBE)	4.3	0.14	ppmv	1.00	04/21/2005 08:09	
Surrogate(s)						
1,2-Dichloroethane-d4	105.1	76-130	%	1.00	04/21/2005 08:09	
Toluene-d8	94.4	78-115	%	1.00	04/21/2005 08:09	

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville
Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/19/2005 14:15

Site: 285 Hegenberger Rd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/04/21-1A.68

MB: 2005/04/21-1A.68-031

Date Extracted: 04/21/2005 07:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/21/2005 07:31	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/21/2005 07:31	
Benzene	ND	0.5	ug/L	04/21/2005 07:31	
Toluene	ND	0.5	ug/L	04/21/2005 07:31	
Ethylbenzene	ND	0.5	ug/L	04/21/2005 07:31	
Total xylenes	ND	1.0	ug/L	04/21/2005 07:31	
Surrogates(s)					
1,2-Dichloroethane-d4	95.8	73-130	%	04/21/2005 07:31	
Toluene-d8	93.6	81-114	%	04/21/2005 07:31	

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/19/2005 14:15

Site: 285 Hegenberger Rd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/21-1A.68

LCS 2005/04/21-1A.68-014

Extracted: 04/21/2005

Analyzed: 04/21/2005 07:14

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.7		25	94.8			65-165	20		
Benzene	23.0		25	92.0			69-129	20		
Toluene	24.3		25	97.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	418		500	83.6			73-130			
Toluene-d8	488		500	97.6			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 15:58

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville
Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170
Project: 247-07364-007
98995749

Received: 04/19/2005 14:15

Site: 285 Hegenberger Rd., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/21-1A.68

MS/MSD

Lab ID: 2005-04-0214 - 004

MS: 2005/04/21-1A.68-039

Extracted: 04/21/2005

Analyzed: 04/21/2005 09:39

Dilution: 1.00

MSD: 2005/04/21-1A.68-057

Extracted: 04/21/2005

Analyzed: 04/21/2005 09:57

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	42.0	41.4	16.6	25	101.6	165.6	47.9	65-165	20		M4,R1
Benzene	22.2	22.9	ND	25	88.8	91.6	3.1	69-129	20		
Toluene	23.9	24.5	ND	25	95.6	98.0	2.5	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	456	418		500	91.2	83.6		73-130			
Toluene-d8	479	481		500	95.8	96.2		81-114			

Severn Trent Laboratories, Inc.

04/22/2005 15:58

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007

98995749

Received: 04/19/2005 14:15

Site: 285 Hegenberger Rd., Oakland

Legend and Notes

Result Flag

M4

MS/MSD spike recoveries were above acceptance limits.
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 15:58

Page 6 of 6

Brewer, Melissa

From: Vasko, Cynthia [cvasko@cambria-env.com]
Sent: Friday, April 22, 2005 11:09 AM
To: Brewer, Melissa
Cc: ljackson@cambria-env.com
Subject: RE: Verification/notification 285 Hegenberger Rd., Oakland: 2005-04-0558

Thanks for noticing, but the COC is wrong, and the sample label is correct. This sample was collected on 4/19/05. Please change your records for that.

Let me know if you have any questions or problems with this request.

Cynthia Vasko
Project Engineer
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A, Emeryville, CA 94608
phone: 510-420-3344
fax: 510-420-9170

-----Original Message-----

From: Brewer, Melissa [mailto:MBrewer@sti-inc.com]
Sent: Thursday, April 21, 2005 5:35 PM
To: Cynthia Vasko
Subject: Verification/notification 285 Hegenberger Rd., Oakland: 2005-04-0558

From: Melissa Brewer <mbrewer@sti-inc.com>

Project# : 247-07364-007
Project Name: 98995749

This email includes reports for the following tests:

- Cover Letter
File: STLSF2005040558-ChainofCustody-COC0000458113.PDF
- Project Verification Sheet
File: STLSF2005040558-ProjectVerificationSheet-PVS0000459085.PDF

The sample label is dated 4/19/05, but the sampling date on the COC is 4/18/05. We logged in the sample according to the COC.

Please let me know if you have any questions.

Melissa Brewer
Project Manager

STL San Francisco
1220 Quarry Lane

4/22/2005

1220 Quarry Lane
Pleasanton, CA 94568

(925) 484-1919 (925) 484-1056 fax

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOLDING

Denis Brown

2005-04-0558

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT)

DATE 4/19/05

PAGE 1 of 1

LABORATORY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC	CLIENT:	SITE ADDRESS (street and city): 285 Hegenberger Rd., Oakland, CA	UNIQUE ID: T0600101245
ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94604	CLIENT CONTACT (name and phone): Cynthia Vasko (510) 420-3344	CLIENT CONTACT (email): cvasko@cambria-env.com	LABORATORY CONTACT (name and phone): Shell Lab Contact: cambria-env.com (510) 420-3344
LABORATORY CONTACT (name and phone): Cynthia Vasko (510) 420-3344	LABORATORY CONTACT (email): cvasko@cambria-env.com	LAB USE ONLY	

TURNAROUND TIME (BUSINESS DAYS)
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - INVOICES REPORT FORMAT LST AGENCY

DO NOT USE CONFIRMATION HIGHEST _____ HIGHEST per ROWS ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NOT NEEDED
 40-hour hold time for vapor samples

REQUESTED ANALYSIS

FIELD NOTES:
 Container/Preservation
 or PID Readings
 or Laboratory Notes
 22°

LAB USE ONLY	Field Sample Identification	SAMPLING		METH	NO. OF COAT	TPH - Purgable	TPH - Extractable (6015m)	BTEX	M/BE	TPH	S Organics	VOCs by EDO	Semi-Volatiles by EDO	Lead also with copper	LUFTS also with cadmium	CMMI also with copper	Test for Dispers	TEMPERATURE OR RECEIPT BY
		DATE	TIME															
	MW-10B	4/19	12:10	VAPOR	1	X		X	X									tedlar bag

Prepared by (signature): <i>[Signature]</i>	Reviewed by (signature): <i>[Signature]</i>	Date: 4/19/05	Time: 1:45
Prepared by (signature): <i>[Signature]</i>	Reviewed by (signature): <i>[Signature]</i>	Date: 4/19/05	Time: 14:15
Prepared by (signature): <i>[Signature]</i>	Reviewed by (signature): <i>[Signature]</i>	Date: 4/19/05	Time: 16:35

Cambria Environmental Emeryville

April 25, 2005

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

Project#: 247-07364-007

Project: 98995749

Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Vasko:

Attached is our report for your samples received on 04/20/2005 15:20

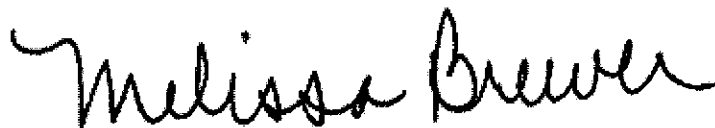
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/04/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/20/2005 15:20

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10C	04/20/2005 12:45	Air	1

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 15:04

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007

98995749

Received: 04/20/2005 15:20

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-10C	Lab ID: 2005-04-0600 - 1
Sampled: 04/20/2005 12:45	Extracted: 4/21/2005 21:45
Matrix: Air	QC Batch#: 2005/04/21-1A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	92	9.8	ppmv	1.00	04/21/2005 21:45	
Benzene	14	0.31	ppmv	1.00	04/21/2005 21:45	
Toluene	10	0.26	ppmv	1.00	04/21/2005 21:45	
Ethylbenzene	1.5	0.23	ppmv	1.00	04/21/2005 21:45	
Total xylenes	9.3	0.23	ppmv	1.00	04/21/2005 21:45	
Methyl tert-butyl ether (MTBE)	34	0.14	ppmv	1.00	04/21/2005 21:45	
Surrogate(s)						
1,2-Dichloroethane-d4	105.0	76-130	%	1.00	04/21/2005 21:45	
Toluene-d8	91.8	78-115	%	1.00	04/21/2005 21:45	

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/20/2005 15:20

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/04/21-1A.65-002

Water

Test(s): 8260B

QC Batch # 2005/04/21-1A.65

Date Extracted: 04/21/2005 16:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/21/2005 16:02	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/21/2005 16:02	
Benzene	ND	0.5	ug/L	04/21/2005 16:02	
Toluene	ND	0.5	ug/L	04/21/2005 16:02	
Ethylbenzene	ND	0.5	ug/L	04/21/2005 16:02	
Total xylenes	ND	1.0	ug/L	04/21/2005 16:02	
Surrogates(s)					
1,2-Dichloroethane-d4	85.8	73-130	%	04/21/2005 16:02	
Toluene-d8	98.4	81-114	%	04/21/2005 16:02	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 15:04

Page 3 of 6

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/20/2005 15:20

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/21-1A.65

LCS 2005/04/21-1A.65-029

Extracted: 04/21/2005

Analyzed: 04/21/2005 15:28

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.4		25	97.6			65-165	20		
Benzene	28.9		25	115.6			69-129	20		
Toluene	28.3		25	113.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	381		500	76.2			73-130			
Toluene-d8	513		500	102.6			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 15:04

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/20/2005 15:20

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/21-1A.65

MS/MSD

Lab ID: 2005-04-0329 - 001

MS: 2005/04/21-1A.65-013

Extracted: 04/21/2005

Analyzed: 04/21/2005 17:00

Dilution: 1.00

MSD: 2005/04/21-1A.65-030

Extracted: 04/21/2005

Analyzed: 04/21/2005 17:30

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	55.9	61.3	47.1	25	35.2	56.8	47.0	65-165	20	M5	M5,R1
Benzene	23.4	21.7	ND	25	93.6	86.8	7.5	69-129	20		
Toluene	22.6	23.8	ND	25	90.4	95.2	5.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	353	381		500	70.6	76.2		73-130		S6	
Toluene-d8	505	505		500	101.0	101.0		81-114			

Severn Trent Laboratories, Inc.

04/22/2005 15:04

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007

98995749

Received: 04/20/2005 15:20

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits.
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

S6

Surrogate recoveries lower than acceptance limits.
Matrix interference suspected

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/22/2005 15:04

STL-San Francisco

SHELL Chain Of Custody Record

114304

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

2005-04-0600

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 4/20/05

PAGE 1 of 1

CAMBRIA ENVIRONMENTAL TECHNOLOGY INC		SITE ADDRESS (Street and City)		LABORATORY	
5800 HOLLIS ST, Suite A, Emeryville, CA 94608		285 Hegenberger Rd., Oakland, CA		TD600101245	
PRODUCT OR PART NUMBER (if not required)		CONTACT PERSON (Name and Title)		CONTACT PHONE (Cell)	
Cynthia Vasko		cvasko@cambria-env.com		(510) 420-3344	
TELEPHONE		FAX		E-MAIL	
(510) 420-3344		(510) 420-9170		cvasko@cambria-env.com	
TOTAL REPORT TIME (BUSINESS DAYS)		LABORATORY USE ONLY			
<input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		LABORATORY USE ONLY			
<input type="checkbox"/> LA - INVOICED REPORT FORMAT <input checked="" type="checkbox"/> LIST AGENCY		LABORATORY USE ONLY			
SCHEDULE COMPLETION: HIGHEST _____ HIGHEST per BOARD _____ ALL _____		LABORATORY USE ONLY			
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF BODS NOT NEEDED <input type="checkbox"/>		LABORATORY USE ONLY			

48-hour hold time for vapor samples

REQUESTED ANALYSIS

48-hour hold time for vapor samples

TPH - Purgeable	TPH - Extractable (BTEX)	BTEX	MIBK	TBA	Organics	1,2-DCA SAMPLES	Ethanol	Methanol	VOCs by DMS-6	Semi Volatiles by DMS-6	Lead - 10mg with strip	UAFTS - 10mg with strip	CAN-7 - 10mg with strip	Test for Disposal	FIELD NOTES: Container/Preservation or PID Readings or Laboratory Notes
-----------------	--------------------------	------	------	-----	----------	-----------------	---------	----------	---------------	-------------------------	------------------------	-------------------------	-------------------------	-------------------	--

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (BTEX)	BTEX	MIBK	TBA	Organics	1,2-DCA SAMPLES	Ethanol	Methanol	VOCs by DMS-6	Semi Volatiles by DMS-6	Lead - 10mg with strip	UAFTS - 10mg with strip	CAN-7 - 10mg with strip	Test for Disposal	TEMPERATURE OF FIELD IN °C		
		DATE	TIME																				
	114-10C	4/20/05	12:25	VAPOR	1	X	X	X														72	

Prepared by (Signature)	Received by (Signature)	Date	Time
<i>[Signature]</i>	Secure location	4/20/05	2:00
Prepared by (Signature)	Received by (Signature)	Date	Time
<i>[Signature]</i>	<i>[Signature]</i> 5197	4/20/05	3:20 pm
Prepared by (Signature)	Received by (Signature)	Date	Time
<i>[Signature]</i> 5197	<i>[Signature]</i>	4/20/05	16:30

U-3170 (Rev. 04-01) - Users with this report should use the following procedures:

SCALE 1/16" = 1" (11/05/05)

Cambria Environmental Emeryville

April 29, 2005

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

Project#: 247-07364-007

Project: 98995749

Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Vasko:

Attached is our report for your samples received on 04/22/2005 15:00

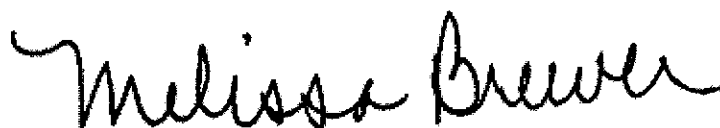
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/06/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10D	04/21/2005 12:55	Air	1

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/28/2005 11:19

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-10D	Lab ID: 2005-04-0705 - 1
Sampled: 04/21/2005 12:55	Extracted: 4/23/2005 20:50
Matrix: Air	QC Batch#: 2005/04/23-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	58	9.8	ppmv	1.00	04/23/2005 20:50	
Benzene	7.8	0.31	ppmv	1.00	04/23/2005 20:50	
Toluene	5.2	0.26	ppmv	1.00	04/23/2005 20:50	
Ethylbenzene	0.51	0.23	ppmv	1.00	04/23/2005 20:50	
Total xylenes	3.3	0.23	ppmv	1.00	04/23/2005 20:50	
Methyl tert-butyl ether (MTBE)	21	0.14	ppmv	1.00	04/23/2005 20:50	
Surrogate(s)						
1,2-Dichloroethane-d4	119.3	76-130	%	1.00	04/23/2005 20:50	
Toluene-d8	103.5	78-115	%	1.00	04/23/2005 20:50	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/28/2005 11:19

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/04/23-2B.66

MB: 2005/04/23-2B.66-024

Date Extracted: 04/23/2005 18:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/23/2005 18:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/23/2005 18:24	
Benzene	ND	0.5	ug/L	04/23/2005 18:24	
Toluene	ND	0.5	ug/L	04/23/2005 18:24	
Ethylbenzene	ND	0.5	ug/L	04/23/2005 18:24	
Total xylenes	ND	1.0	ug/L	04/23/2005 18:24	
Surrogates(s)					
1,2-Dichloroethane-d4	103.8	73-130	%	04/23/2005 18:24	
Toluene-d8	104.4	81-114	%	04/23/2005 18:24	

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/23-2B.66

LCS 2005/04/23-2B.66-059

Extracted: 04/23/2005

Analyzed: 04/23/2005 17:59

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.9		25	99.6			65-165	20		
Benzene	25.1		25	100.4			69-129	20		
Toluene	25.7		25	102.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	483		500	96.6			73-130			
Toluene-d8	521		500	104.2			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/28/2005 11:19

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/23-2B.66

MS/MSD

Lab ID: 2005-04-0312 - 004

MS: 2005/04/23-2B.66-060

Extracted: 04/23/2005

Analyzed: 04/23/2005 19:59

Dilution: 1.00

MSD: 2005/04/23-2B.66-061

Extracted: 04/23/2005

Analyzed: 04/23/2005 20:24

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	22.6	22.8	ND	25	90.4	91.2	0.9	69-129	20		
Toluene	25.4	25.6	ND	25	101.6	102.4	0.8	70-130	20		
Methyl tert-butyl ether	22.5	23.0	ND	25	90.0	92.0	2.2	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	475	467		500	95.0	93.4		73-130			
Toluene-d8	553	530		500	110.6	106.0		81-114			

Severn Trent Laboratories, Inc.

04/28/2005 11:19

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

STL-San Francisco

SHELL Chain Of Custody Record

114479

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be involved:

SCIENCE & ENGINEERING

TECHNICAL SERVICES

CRMT HOSTS

Denis Brown

2005-04-0705

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 4-21-05

PAGE: 1 of 2

LABORATORY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC

ADDRESS: 5000 HOLLIS ST, Suite A, Emeryville, CA 94606

PHONE: (510) 420-3344

TELEFAX: (510) 420-0170

EMAIL: cvasko@cambria-env.com

PROJECT NAME: **CETS**

SITE ADDRESS (Street and City): 285 Hegenberger Rd., Oakland, CA

PROJECT ID: T0600101245

CONTACT PERSON: Cynthia Vasko

PHONE: (510) 420-3344

EMAIL: cvasko@cambria-env.com

PROJECT CONTACT PERSON: Cynthia Vasko

PHONE: (510) 420-3344

EMAIL: cvasko@cambria-env.com

PROJECT CONTACT PERSON: Cynthia Vasko

PHONE: (510) 420-3344

EMAIL: cvasko@cambria-env.com

TECHNICAL SERVICE TIME (CHECK ONE DATE):

30 DAYS 60 DAYS 90 DAYS 120 DAYS 150 DAYS 180 DAYS 210 DAYS 240 DAYS 300 DAYS

LA - SWQCE REPORT FORMAT: LA - SWQCE REPORT FORMAT WEST AGENCY

COMPLIANCE CONFIRMATION REQUEST: REQUEST per BORINGS ALL

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF END IS NOT NEEDED

48-hour hold time for vapor samples

SAMPLING					REQUESTED ANALYSIS												FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes						
LAB USE ONLY	Field Sample Identification	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extraction (9915m)	BTEX	MIBK	TEA	3-Days/10-Days	1,2-DCA and ECH	Enthalp	Metanol	VOCs by 8201B	Semi-Volatiles by 8201C		Lead - from 8201C 8201P	LUFTS - from 8201C 8201P	CASAT - from 8201C 8201P	Test for Disposal		
	MW-100	4/21	12:55	VAPOR	1	X		X	X														TEMPERATURE ON RECEIPT: 20

LAB USE ONLY	Field Sample Identification	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extraction (9915m)	BTEX	MIBK	TEA	3-Days/10-Days	1,2-DCA and ECH	Enthalp	Metanol	VOCs by 8201B	Semi-Volatiles by 8201C	Lead - from 8201C 8201P	LUFTS - from 8201C 8201P	CASAT - from 8201C 8201P	Test for Disposal	TEMPERATURE ON RECEIPT	
	MW-100	4/21	12:55	VAPOR	1	X		X	X													20

Collected by: *Cynthia Vasko* Date: 4/21/05 Time: 2:45 PM

Received by: *Joan Mullean* Date: 4-22-05 Time: 1:00

Received by: *Joan Mullean* Date: 4-22-05 Time: 1:00

Cambria Environmental Emeryville

April 29, 2005

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

Project#: 247-07364-007

Project: 98995749

Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Vasko:

Attached is our report for your samples received on 04/22/2005 15:00

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/06/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10-E	04/22/2005 12:30	Air	1

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/28/2005 11:20

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-10-E	Lab ID: 2005-04-0706 - 1
Sampled: 04/22/2005 12:30	Extracted: 4/23/2005 21:15
Matrix: Air	QC Batch#: 2005/04/23-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	9.8	ppmv	1.00	04/23/2005 21:15	
Benzene	ND	0.31	ppmv	1.00	04/23/2005 21:15	
Toluene	ND	0.26	ppmv	1.00	04/23/2005 21:15	
Ethylbenzene	ND	0.23	ppmv	1.00	04/23/2005 21:15	
Total xylenes	0.37	0.23	ppmv	1.00	04/23/2005 21:15	
Methyl tert-butyl ether (MTBE)	1.1	0.14	ppmv	1.00	04/23/2005 21:15	
Surrogate(s)						
1,2-Dichloroethane-d4	117.1	76-130	%	1.00	04/23/2005 21:15	
Toluene-d8	104.1	78-115	%	1.00	04/23/2005 21:15	

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007

98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/04/23-2B.66-024

Water

Test(s): 8260B

QC Batch # 2005/04/23-2B.66

Date Extracted: 04/23/2005 18:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/23/2005 18:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/23/2005 18:24	
Benzene	ND	0.5	ug/L	04/23/2005 18:24	
Toluene	ND	0.5	ug/L	04/23/2005 18:24	
Ethylbenzene	ND	0.5	ug/L	04/23/2005 18:24	
Total xylenes	ND	1.0	ug/L	04/23/2005 18:24	
Surrogates(s)					
1,2-Dichloroethane-d4	103.8	73-130	%	04/23/2005 18:24	
Toluene-d8	104.4	81-114	%	04/23/2005 18:24	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/28/2005 11:20

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007

98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/23-2B.66

LCS 2005/04/23-2B.66-059

Extracted: 04/23/2005

Analyzed: 04/23/2005 17:59

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.9		25	99.6			65-165	20		
Benzene	25.1		25	100.4			69-129	20		
Toluene	25.7		25	102.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	483		500	96.6			73-130			
Toluene-d8	521		500	104.2			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/28/2005 11:20

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/22/2005 15:00

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/23-2B.66

MS/MSD

Lab ID: 2005-04-0312 - 004

MS: 2005/04/23-2B.66-060

Extracted: 04/23/2005

Analyzed: 04/23/2005 19:59

Dilution: 1.00

MSD: 2005/04/23-2B.66-061

Extracted: 04/23/2005

Analyzed: 04/23/2005 20:24

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	22.6	22.8	ND	25	90.4	91.2	0.9	69-129	20		
Toluene	25.4	25.6	ND	25	101.6	102.4	0.8	70-130	20		
Methyl tert-butyl ether	22.5	23.0	ND	25	90.0	92.0	2.2	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	475	467		500	95.0	93.4		73-130			
Toluene-d8	553	530		500	110.6	106.0		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/28/2005 11:20

SHELL Chain Of Custody Record

114480

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be involved:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- O&E HOOUSTON

Denis Brown

2005-04-0706

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT)

DATE 4/22/05

PAGE 1 of 1

COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608 CONTACT: Cynthia Vasko TEL: (510) 420-3344 FAX: (510) 420-9170 EMAIL: cvasko@cambria-env.com		SITE ADDRESS (owner and client): 285 Hegenberger Rd., Oakland, CA CONTACT: evasko@cambria-env.com TEL: (510) 420-3344		UIC: T0600101245 OPERATOR: Shell OPERATOR TEL: 247-07364-007																		
PLANNING TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		REQUESTED ANALYSIS																				
SPECIAL INSTRUCTIONS OR NOTES: 48-hour hold time for vapor samples		SAMPLE PREPARED BY: <i>Trey Jackson</i>		FIELD NOTES: Contained/Preservative or PHD Readings or Laboratory Notes																		
LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (EOTAM)	BTEX	MRE	TEA	PCPN/PCP	1,1-DCE and 1,1-DCA	Inorganic	Metals	VOCs by AROCS	Semi-Volatiles by A2/ROCS	LELs - 4-Tier A2/ROCS	LELTS - 4-Tier A2/ROCS	CHLOR - 4-Tier A2/ROCS	Teel for Disposal	TEMPERATURE OR RECEIPT BY	
		DATE	TIME																			
<input checked="" type="checkbox"/>	HW-10-E	4/21/05	12:30	VAPOR	1	X		X	X													20 tedlar bag
Received by (signature): <i>[Signature]</i>		Received by (signature): <i>secured location</i>		Date: 4/22/05		Time: 1:30																
Received by (signature): <i>[Signature]</i>		Received by (signature): <i>Vincent Van</i>		Date: 4/25/05		Time: 15:00																
Received by (signature): <i>[Signature]</i>		Received by (signature): <i>Joan Mulken</i>		Date: 4/28/05		Time: 16:00																

© 2004 by Shell. Drawn with modification from the HVE, VAPOR and PHD to SHELL.

S&E 04/22/05 11:44:00

Cambria Environmental Emeryville

May 03, 2005

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

Project#: 247-07364-007

Project: 98995749

Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Vasko:

Attached is our report for your samples received on 04/25/2005 12:17

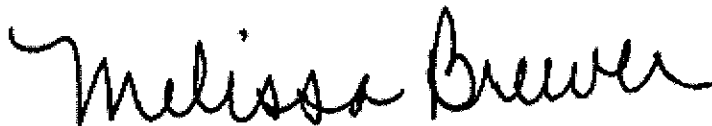
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/09/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/25/2005 12:17

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10F	04/24/2005 15:10	Air	1

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170
Project: 247-07364-007
98995749

Received: 04/25/2005 12:17

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B Test(s): 8260B
Sample ID: **MW-10F** Lab ID: 2005-04-0762 - 1
Sampled: 04/24/2005 15:10 Extracted: 4/26/2005 20:12
Matrix: Air QC Batch#: 2005/04/26-2B.68
pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	120	9.8	ppmv	1.00	04/26/2005 20:12	
Benzene	8.9	0.31	ppmv	1.00	04/26/2005 20:12	
Toluene	7.6	0.26	ppmv	1.00	04/26/2005 20:12	
Ethylbenzene	0.94	0.23	ppmv	1.00	04/26/2005 20:12	
Total xylenes	4.5	0.23	ppmv	1.00	04/26/2005 20:12	
Methyl tert-butyl ether (MTBE)	21	0.14	ppmv	1.00	04/26/2005 20:12	
Surrogate(s)						
1,2-Dichloroethane-d4	117.6	76-130	%	1.00	04/26/2005 20:12	
Toluene-d8	101.3	78-115	%	1.00	04/26/2005 20:12	

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/25/2005 12:17

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/04/26-2B.68-009

Water

Test(s): 8260B

QC Batch # 2005/04/26-2B.68

Date Extracted: 04/26/2005 17:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/26/2005 17:09	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/26/2005 17:09	
Benzene	ND	0.5	ug/L	04/26/2005 17:09	
Toluene	ND	0.5	ug/L	04/26/2005 17:09	
Ethylbenzene	ND	0.5	ug/L	04/26/2005 17:09	
Total xylenes	ND	1.0	ug/L	04/26/2005 17:09	
Surrogates(s)					
1,2-Dichloroethane-d4	98.6	73-130	%	04/26/2005 17:09	
Toluene-d8	95.6	81-114	%	04/26/2005 17:09	

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville
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Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/25/2005 12:17

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/26-2B.68

LCS 2005/04/26-2B.68-051
LCSD

Extracted: 04/26/2005

Analyzed: 04/26/2005 16:51

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.6		25	82.4			65-165	20		
Benzene	20.5		25	82.0			69-129	20		
Toluene	22.7		25	90.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	447		500	89.4			73-130			
Toluene-d8	490		500	98.0			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

04/29/2005 16:05

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 247-07364-007
98995749

Received: 04/25/2005 12:17

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/26-2B.68

MS/MSD

Lab ID: 2005-04-0504 - 004

MS: 2005/04/26-2B.68-048

Extracted: 04/26/2005

Analyzed: 04/26/2005 20:48

Dilution: 1.00

MSD: 2005/04/26-2B.68-006

Extracted: 04/26/2005

Analyzed: 04/26/2005 21:06

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	22.4	24.2	ND	25	89.6	96.8	7.7	65-165	20		
Benzene	22.8	23.2	ND	25	91.2	92.8	1.7	69-129	20		
Toluene	25.3	25.2	ND	25	101.2	100.8	0.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	477	500		500	95.4	100.0		73-130			
Toluene-d8	504	500		500	100.8	100.0		81-114			

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04/29/2005 16:05

Page 5 of 5

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1086 fax

Shell Project Manager to be Invoiced:

Denis Brown

2005-04-0762

INCIDENT NUMBER (SAE ONLY)

9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT)

DATE 4-24-05

PAGE 1 of 1

ANALYST COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608 PHONE: (510) 420-3344 FAX: (510) 420-9170 E-MAIL: cvasko@cambria-env.com TURNAROUND TIME (BUSINESS DAYS) <input checked="" type="checkbox"/> 14 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS <input type="checkbox"/> LAB REPORT FORMAT <input checked="" type="checkbox"/> USE AGENCY _____ QCSMS MTR CONFIRMATION: HIGHEST _____ HIGHEST per BOARD _____ ALL _____ SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED: <input type="checkbox"/> 48-hour hold time for vapor samples		ID NUMBER: CETS SITE ADDRESS (Street and City): 285 Hegenberger Rd., Oakland, CA PHONE: (510) 420-3344 TOWN, STATE, ZIP: T0600101245 CONTACT NAME: Cynthia Vasko ADDRESS: 5900 Hollis St, Emeryville, CA 94608 PHONE: (510) 420-3344 FAX: (510) 420-9170 E-MAIL: cvasko@cambria-env.com TURNAROUND TIME (BUSINESS DAYS) <input checked="" type="checkbox"/> 14 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS <input type="checkbox"/> LAB REPORT FORMAT <input checked="" type="checkbox"/> USE AGENCY _____ QCSMS MTR CONFIRMATION: HIGHEST _____ HIGHEST per BOARD _____ ALL _____ SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED: <input type="checkbox"/> 48-hour hold time for vapor samples	INCIDENT NUMBER (SAE ONLY) 9 8 9 9 5 7 4 9 SAP or CRMT NUMBER (TS/CRMT) DATE 4-24-05 PAGE 1 of 1
FIELD SAMPLE IDENTIFICATION MW-10F SAMPLING DATE: 4/24/05 TIME: 3:10 MATRIX: VAPOR NO. OF CONT.: 1		ANALYST: Cynthia Vasko RECEIVED BY: Security (Emeryville office) TIME: 3:45 pm	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes tedlar bag
RECEIVED BY: Security (Emeryville office) 1740 TIME: 4/25/05		RECEIVED BY: Security (Emeryville office) TIME: 12:17 pm RECEIVED BY: Security (Emeryville office) TIME: 4/25/05 17:40	TIME: 4/24/05 TIME: 4/25/05 TIME: 17:40