MEMORANDUM

Date: 30 August 2021 **Job No.:** 21308-00.02769

To: Matthew Ridgway, 890 Petaluma Boulevard North, Petaluma CA

From: Cem Atabek and Bruce Abelli-Amen

Subject: **Environmental Assessment Technical Memorandum, 890 Petaluma Boulevard North, Petaluma, California**

Dear Mr. Ridgway:

At your request, Baseline has prepared this Technical Memorandum (Tech Memo) presenting our findings from the review of previous environmental documents prepared for the property located at 890 Petaluma Boulevard North in Petaluma, California (Site). This Tech Memo also presents the findings from sub-slab soil vapor sampling activities performed at the Site by Baseline; and includes recommendations to ensure that construction workers, the public, the environment, and future Site occupants would not be exposed to hazardous materials that may be present in the subsurface of the Site.

Background

The Site was previously associated with the address of 860 Petaluma Boulevard North. The Site was formerly a Chevron gas station and is listed on the State Water Resources Control Board's GeoTracker database as a leaking underground storage tank (LUST) cleanup site with a closed case status. The former gas station was replaced by a restaurant in the late 1980s and the existing restaurant building is currently vacant. Demolition of the existing former restaurant building and construction of a new mixed-use development (commercial and residential units) has been proposed for the Site.

Summary of Previous Environmental Documents

Baseline reviewed a Phase I Environmental Site Assessment (ESA)[1] prepared for the Site in 2017 and documents that were available for the Site on the GeoTracker database. Copies of previous environmental documents prepared for the Site between 1987 and 2006 were attached to the Phase I ESA, including the documents available for the Site on GeoTracker. A summary of findings based on our review of the Phase I ESA and previous environmental documents that

[1] PIERS Environmental Services, 2017. Phase I Environmental Site Assessment, 890 Petaluma Boulevard North, Petaluma, CA, April 17.

were attached to the Phase I ESA is presented below. Excerpts from select previous environmental documents are included in Appendix A. The excerpts include data summary tables and figures showing the locations of former features including USTs, fuel piping/dispensers, monitoring wells, remedial excavations, soil samples, and soil vapor samples.

- Four underground storage tanks (USTs) were removed from the Site in October 1986, two 7,500-gallon gasoline USTs, one 3,000-gallon gasoline UST, and a 1,000-gallon waste oil UST. The former USTs were located in the northeast portion of the Site, and the former fuel dispensers were located in the western portion of the Site (Figure 1).
- Elevated concentrations of total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, and xylenes were detected in soil samples collected in November 1986 from the excavation area of the former USTs, including two soil samples collected outside of the primary containment structure of the former USTs.
- Concentrations of TPHg, benzene, toluene, ethylbenzene and xylenes (BTEX) were also detected in soil samples collected in 1987 from borings that were advanced for installation of five monitoring wells (MW1 through MW5) at the Site. The most significant impacts in soil were detected in the borings for monitoring wells MW2 (which was located immediately south of the former USTs) and MW5 (which was located immediately south of the western former dispenser island). An elevated concentration of benzene (5.1 milligrams per kilogram [mg/kg]) was detected at a depth of 9 feet below ground surface (bgs) in the boring for monitoring well MW5. This suggest that a release of petroleum hydrocarbons may have occurred in the area of the former fuel dispensers. Impacts from TPHg and BTEX were also detected in groundwater monitoring samples collected from the Site in February and April 1987, with the most significant impacts in groundwater detected in monitoring wells MW2 and MW5.
- In August 1987, a soil vapor contaminant assessment was performed at the Site on behalf of Chevron. The soil vapor assessment included the collection of soil vapor samples from multiple depths at nine locations across the Site, and analysis of the soil vapor samples for benzene, toluene, and total volatile hydrocarbons. Soil vapor sampling was not performed in the vicinity of monitoring well MW-5 (even though impacts were detected in soil and groundwater in monitoring well MW-5 – the rationale for not investigating this area for soil vapor impacts was not presented in the report). Impacts from total volatile hydrocarbons, benzene, and toluene were detected in soil vapor samples collected from the northeastern portion of the Site. Although concentrations of benzene were not detected in many of the soil vapor samples, the laboratory reporting limit for benzene was significantly higher than the current

Environmental Screening Levels (ESLs)[2] established by the San Francisco Bay Regional Water Quality Control Board (Regional Water Board) for benzene in soil vapor. The soil vapor assessment included a health risk assessment that indicated that benzene and toluene may migrate into a building if it is constructed on the Site, and that benzene and toluene concentrations of up to 700 micrograms per cubic meter (µg/m³) and 500 µg/m³, respectively, could migrate into the building based on modeling. The soil vapor assessment indicated that the maximum modeled indoor air concentrations of benzene and toluene were below the standards set at the time by the Occupational Safety and Health Administration (OSHA) for workplace exposure of 3,000 µg/m³ for benzene and 375,000 µg/m³ for toluene, and therefore soil vapor should not pose health risks for the proposed restaurant building.

- Although the soil vapor assessment concluded that soil vapor should not pose health risks for the proposed restaurant building (based on their risk assessment and toxicological information available at the time) a November 1987 letter from Chevron to the Regional Water Board indicated that vapor concerns would be addressed with a passive venting system (that could be modified to an active venting system) incorporated into the foundation design. However, according to a 2001 report,[3] it could not be verified that a passive venting system was installed beneath the existing building at the Site.
- In March 1988, approximately 950 cubic yards of soil was excavated from the area of the Former USTs at the Site to remove petroleum hydrocarbon impacted soil. The excavation extended to depths of approximately 13 to 18 feet bgs. Saturated and unsaturated soils containing obvious hydrocarbons impacts were removed. Soil without noticeable impacts from petroleum hydrocarbons was segregated for re-use as backfill material. Approximately 200 cubic yards of petroleum hydrocarbon impacted soil was disposed of at an off-site landfill, and the remaining excavated soil was re-used as backfill. Product piping for the fuel dispensers was uncovered and removed during the excavation activities. Soil samples were collected from the bottom of the excavation area and from beneath the product piping. Impacts from petroleum hydrocarbons were detected in a few samples collected from the excavation area, and over-excavation of soil was performed at these sample locations. Impacts from petroleum hydrocarbons were also detected in one sample collected from beneath the former product piping to the west of the former USTs; however, further excavation and sampling was not performed in this area of former product piping.

[2] Regional Water Board, 2019. Environmental Screening Levels, January.
[3] Cambria Environmental Technology, Inc. 2001. Additional Site Information Report, May 7.

- In October 1988, monitoring well MW-2 was abandoned (to accommodate construction of the existing building in the Site) and replaced with monitoring well MW-2A, which was located immediately southeast of the former USTs.
- From 1988 to 2005, groundwater monitoring was performed at the Site, which included sampling of three additional monitoring (MW-6, MW-7, and MW8) that had been installed in off-Site areas adjacent to the south and east of Site. Groundwater contaminant concentrations at the Site were observed to have decreasing trends over time, with the exception that concentrations of methyl-tert-butyl-ether (MTBE) in several of the monitoring wells at the Site had increasing trends from the late 1990s into the early 2000s. The case closure letter issued by the Sonoma County Environmental Health Division for the Site in 2006 (see Appendix A) indicated that source of the MTBE impacts in groundwater at the Site was determined to be the Shell gasoline station at 900 Petaluma Boulevard North, located north of the Site across Payran Street.
- Concentrations of THPg and BTEX were not detected above laboratory reporting limits in groundwater samples collected from the Site in March and June 2005, which were the last two groundwater monitoring events performed at the Site. The last time that a concentration of benzene (the contaminant expected to drive the vapor intrusion risks) was detected in groundwater at the Site was in December 2004 when 3 micrograms per liter (µg/L) of benzene was detected in monitoring well MW-5. The current ESLs for benzene for the groundwater to vapor intrusion exposure pathway are 0.42 µg/L for residential land use and 1.8 µg/L for commercial land use.
- The last time that analysis of MTBE occurred in groundwater samples collected from the Site was in June 2003 when concentrations of MTBE were detected in monitoring wells MW-1 (2,000 µg/L), MW-2A (10 µg/L), MW-3 (120 µg/L), MW-3 (950 µg/L), MW-6 (1,300 µg/L), and MW-7 (240 µg/L). The current ESLs for MTBE for the groundwater to vapor intrusion exposure pathway are 450 µg/L for residential land use and 2,000 µg/L for commercial land use.
- In August 2006, the Sonoma County Environmental Health Division issued a letter confirming the completion of investigation and remedial action for the USTs formerly located at the Site. The Case Closure Summary attached to the letter indicated that there are no management requirements for the Site and that corrective action does not need to be reviewed if the land use changes.

Sub-Slab Soil Vapor Sampling

On 17 August 2021, Baseline installed and sampled three sub-slab soil vapor probes (SSV-1 through SSV-3) at the Site (Figure 1). The sub-slab soil vapor probes were located near the

former dispenser islands in the western portion of the Site where impacts from petroleum hydrocarbon and BTEX had been detected in soil and groundwater in the past (SSV-1); on the north side of the existing structure in the area where impacts were previously detected in soil vapor samples collected in 1987 and where impacts from petroleum hydrocarbons were detected in a soil sample collected beneath former product piping in 1988 (SSV-2); and on the east side of the existing structure near the south end of the former USTs where impacts from petroleum hydrocarbon and BTEX had been detected in soil and groundwater in the past (SSV-3). The sub-slab soil vapor probes were installed in areas that were considered most likely to have residual impacts in soil and groundwater based on the review of previous environmental documents.

The sub-slab soil vapor probes were installed within approximately 1-inch diameter holes that were drilled through the concrete and asphalt pavement. Stainless steel vapor probes attached to Teflon tubing were installed within approximately 6-inches beneath the bottom of the pavement. Dry bentonite granules were placed around and above the vapor probes to the bottom of the pavement, and hydrated bentonite was used to fill and seal the void between the tubing and pavement. A Swagelok® fitting and plug were installed at the end of the Teflon tubing to cap and seal off the tubing, and traffic cones were placed around the temporary probes to protect them.

Two hours elapsed between installation and sampling of the sub-slab soil vapor probes in order to allow the subsurface to equilibrate. The soil vapor probe tubing was connected to the soil vapor sampling equipment which consisted of a stainless-steel manifold equipped with shutoff valve, a downhole pressure gauge, flow restrictor set to 150 milliliters (mL) per minute, and cannister pressure gauge; a 6-liter vacuum canister for purging and a 1-liter vacuum canister for sample collection. Prior to sample collection, a shut-in test was performed by closing the shutoff valve on the manifold and opening the purge canister valve for 10 minutes and observing the pressure readings to ensure that no change in pressure occurred that would indicate leakage in the equipment fittings.

Following the successful completion of the shut-in test, a shroud consisting of a clear plastic sheet was placed over the sub-slab soil vapor probe and sampling equipment and sealed against the ground with weights along its edges. Paper towels soaked in isopropyl alcohol (IPA, used as leak detection agent) were placed beneath the shroud to create an atmosphere of IPA surrounding the probe and sampling equipment. A photo-ionization detector (PID) meter was used to measure the concentration of the IPA atmosphere maintained within the shroud during purging and sample collection, which was maintained between approximately 40 and 100 parts per million (ppm) at all times. The volume of void space within the vapor probe, dry granular bentonite, and tubing was calculated to be approximately 50 mL, and approximately 3 purge

volumes (approximately 150 mL) was purged from each sub-slab vapor probe over the course of approximately 1 minute (150 mL per minute flow rate).

After the completion of purging, the sub-slab soil vapor sample was collected by closing the purge cannister valve and opening the 1-liter sample canister valve. The sample cannister valve was closed when the vacuum pressure had decreased to approximately 5 inches of mercury. The sub-slab soil vapor samples were labeled with the Site information, a unique sample identification, starting and ending cannister pressure, and the desired analysis. The shut-in test, purging, and sample collection times, vacuum pressure gauge readings, and leak detection atmosphere PID readings were recorded on soil vapor sampling forms which are presented in Appendix B. The three sub-slab soil vapor samples were analyzed for volatile organic compounds (VOCs) including IPA (the leak detection agent) by EPA Method TO-15.

Laboratory Analytical Results

The laboratory analytical report is presented in Appendix C and the analytical results are summarized in Table 1 and discussed below. The analytical results are compared to the Regional Water Board's ESLs[4] for sub-slab/soil gas vapor intrusion for residential and commercial land use scenarios. Only those VOCs that were detected above laboratory reporting in at least one sample were included in Table 1. All other VOCs analyzed were not detected above the laboratory reporting limits.

Leak Check Compound

The leak check compound IPA was detected at a concentration of 0.11 ppm in sample SSV-3, and was not detected above the laboratory reporting limits of 0.040 ppm and 0.20 ppm in samples SSV-1 and SSV-2, respectively. During the purging and sampling of sub-slab soil vapor probe SSV-3, the concentration of IPA within the shroud was maintained above 44 ppm at all times; therefore, the detected concentration of IPA in this sample suggest that there was very minor leakage (less than 0.25 %) of ambient air into the sub-slab soil vapor probe/sampling equipment. This minor leakage would have no significant effect on the accuracy or validity of the analytical results discussed below.

Benzene

Benzene was detected in all sub-slab soil vapor samples at concentrations exceeding the residential ESL of 3.2 µg/m^3 and equal to or exceeding the commercial ESL of 14 µg/m^3. The detected concentrations of benzene were 16 µg/m^3 in sample SSV-1, 30 µg/m^3 in sample SSV-2,

[4] San Francisco Bay Regional Water Quality Control Board, 2019. Environmental Screening Levels, Table SG-1: Subslab Soil Gas and Exterior Soil Gas Vapor Intrusion Human Health Risk Screening Levels, January.

and 14 µg/m^3 in sample SSV-3. Benzene is a component of gasoline and the presence of benzene in soil vapor at the Site is most likely due to residual soil and groundwater contamination at the Site resulting from past releases of petroleum hydrocarbons at the Site and potentially at the property located at 900 Petaluma Boulevard North, located north of the Site across Payran Street.

1,4-Dichlorobenzene

1,4-Dichlorobenzene was detected at a concentration of 55 µg/m^3 in sample SSV-2, which exceeds the residential ESL of 8.5 µg/m^3 and commercial ESL of 37 µg/m^3. 1,4-Dichlorobenzene was not detected above laboratory reporting limits in samples SSV-1 and SSV-3. 1,4-Dichlorobenzene is commonly used as a deodorant for urinals/toilets and as a fumigant for the control of moths.[5] The potential source of 1,4-dichlorobenzene in soil vapor at the Site is not known.

1,2,4-Trichlorobenzene

1,2,4-Trichlorobenzene was detected at a concentration of 190 µg/m^3 in sample SSV-2, which exceeds the residential ESL of 70 µg/m^3 and is below the commercial ESL of 290 µg/m^3. 1,2,4-Trichlorobenzene was not detected above laboratory reporting limits in samples SSV-1 and SSV-3. The uses of 1,2,4-trichlorobenzene include dielectric fluid in transformers, a degreaser, a lubricant, synthetic transformer oils, and as a solvent in chemical manufacturing; and it was formerly used as an insecticide against termites.[6] The potential source of 1,2,4-trichlorobenzene in soil vapor at the Site is not known.

Vinyl Chloride

Vinyl chloride was detected at a concentration of 0.53 µg/m^3 in sample SSV-1, which slightly exceeds the residential ESL of 0.32 µg/m^3 and is below the commercial ESL of 5.2 µg/m^3. Vinyl chloride is primarily used to make polyvinyl chloride to manufacture plastics, and it is also produced as a breakdown product of the halogenated VOCs tetrachloroethylene (PCE) and trichloroethylene (TCE), which are commonly used as solvents. Groundwater monitoring previously performed at the Site included analysis of halogenated VOCs, and detectable concentrations of PCE, TCE, and their breakdown products were generally not reported with the exception that a data summary table footnote indicated that TCE was detected at a concentration of 0.5 µg/L; however, corresponding information (e.g., monitoring well and date)

[5] National Institute of Health, 2021a. PubChem Webpage for 1,4-Dichlorobenzene, available at https://pubchem.ncbi.nlm.nih.gov/compound/4685, accessed August 24.
[6] National Institute of Health, 2021b. PubChem Webpage for 1,2,4-Trichlorobenzene, available at https://pubchem.ncbi.nlm.nih.gov/compound/13, accessed August 24.

for the TCE detection(s) was not identified in the data summary table (see Appendix A). If impacts from TCE had been present in soil/groundwater beneath the Site, the breakdown of TCE is a potential source of the vinyl chloride detected in soil vapor at the Site.

Other VOCs

All other VOCs that were detected above laboratory reporting limits were either below their respective ESLs or have no ESLs established for comparison (Table 1).

Conclusions and Recommendations

Based on the review of previous environmental documents prepared for the Site and the findings from sub-slab soil vapor sampling activities performed at the Site, there is the potential for residual impacts from petroleum hydrocarbons and VOCs to be present in soil and groundwater beneath the Site. Concentrations of VOCs including benzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and vinyl chloride were detected in sub-slab soil vapor samples at concentrations exceeding commercial and/or residential ESLs for vapor intrusion. Based on these findings, Baseline provides the following recommendations to ensure that construction workers, the public, the environment, and future Site occupants would not be exposed to hazardous materials that may be present in the subsurface of the Site.

- A Soil and Groundwater Management Plan (SGMP) should be prepared to outline soil and groundwater management protocols that would be implemented during redevelopment of the Site to ensure that construction workers, the public, future Site occupants, and the environment would not be exposed to hazardous materials that may be present in the subsurface of the Site. The SGMP should describe health and safety requirements for construction workers that may handle contaminated soils and should include procedures to be followed if contaminated (e.g., stained, oily, or odorous) soil or groundwater is encountered during construction. These procedures should include notification requirements; inspection and sampling of contaminated soil or groundwater by a qualified environmental professional; guidelines for dust/vapor/odor control and air monitoring during excavation if contamination is encountered; guidelines for groundwater dewatering, treatment, and disposal to ensure compliance with applicable regulations/permit requirements; and guidelines for the segregation of contaminated soil, stockpile management, characterization of soil for off-Site disposal or on-Site re-use, and importing of clean fill material. The SGMP should be submitted to the City of Petaluma (City) for review and approval prior to the City issuing demolition or grading permits for the Site.

- Vapor intrusion mitigation systems (VIMS) consisting of a sub-slab vapor barriers and ventilation systems should be designed and installed beneath future buildings proposed

for human occupancy at the Site. The VIMS should be designed, installed, operated, and maintained in accordance with the Department of Toxic Substances Control's (DTSC's) Vapor Intrusion Mitigation Advisory – Final Revision 1 (October 2011) and subsequent DTSC guidelines. The VIMS should include passive sub-slab ventilation systems that could be converted to active ventilation systems if necessary based on post construction indoor air monitoring results. The VIMS should be designed and certified by a qualified environmental professional, and the VIMS designs and specifications should be submitted to the City for review and approval prior to the City issuing building permits for the Site. The qualified environmental professional should prepare a document certifying that the VIMS was installed, inspected, and tested according to the VIMS designs and specifications and DTSC guidelines. An Operations and Maintenance (O&M) Plan should be prepared by a qualified environmental professional in accordance with DTSC guidelines to describe the O&M activities that would be performed to ensure that the VIMS would not be damaged by future Site occupants or construction/maintenance activities and that the VIMS would remain functional as intended. Implementation of the O&M Plan should be the responsibility of the owner or future Home Owners Association of the Site; and the O&M activities for the VIMS should be described in the Covenants, Codes, and Restrictions (CC&Rs) to be established for the Site. The document certifying that the VIMS was installed, inspected, and tested according to the VIMS designs and specifications and DTSC guidelines; the O&M Plan; and the CC&Rs should be submitted to the City for review and approval prior to the City issuing occupancy permits for the Site.

- If the City does not have staff with the necessary experience/expertise to review and approve the SGMP and VIMS related designs/documents described above, the City should hire a third party qualified environmental professional to review the SGMP and VIMS related designs/documents on the City's behalf.

If you have any questions or comments regarding this Tech Memo, please contact us at your convenience.

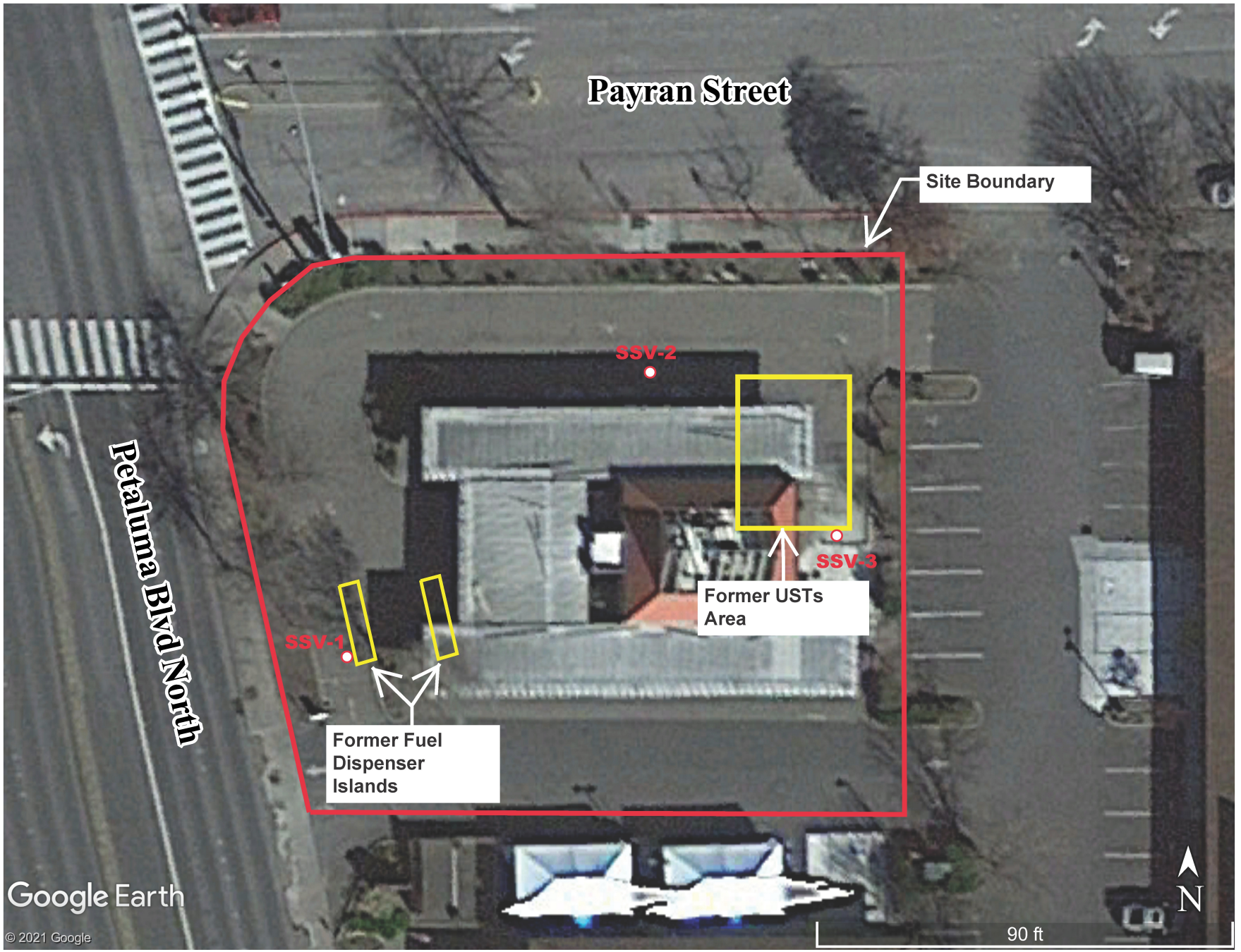
Sincerely,

Bruce Abelli-Amen, PG, CHg
Principal

Cem Atabek
Environmental Engineer III

Site Map

Figure 1



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890 Petaluma Boulevard North Petaluma, California

BASELINE ENVIRONMENTAL CONSULTING

TABLE 1 - Sub-Slab Soil Vapor Sample Analytical Results for VOCs
890 Petaluma Boulevard North, Petaluma, California

Sample ID	SSV-1	SSV-2	SSV-3	Residential ESLs	Commercial ESLs
Analyte	**Analytical Results ($\mu g/m^3$)**			**($\mu g/m^3$)**	**($\mu g/m^3$)**
Acetone	**880**	**2,300**	**620**	1,100,000	4,500,000
Benzene	**16**	**30**	**14**	3.2	14
2-Butanone(MEK)	**180**	**480**	**90**	170,000	730,000
Carbon Disulfide	**3.8**	<16	<6.4	NE	NE
1,4-Dichlorobenzene	<6.0	**55**	<12	8.5	37
Ethanol	**270**	**1,300**	**690**	NE	NE
Ethyl Acetate	**40**	**140**	**23**	NE	NE
2-Hexanone	**11**	**26**	<8.4	NE	NE
4-Methyl-2-Pentanone (MIBK)	**9.4**	**35**	**9.2**	100,000	440,000
Tetrahydrofuran	**46**	**140**	**42**	NE	NE
Toluene	**13**	**25**	**16**	10,000	44,000
1,2,4-Trichlorobenzene	<7.6	**190**	<15	70	290
Vinyl Chloride	**0.53**	<2.6	<1.0	0.32	5.2
Leak Check Compound Analytical Results (ppm)					
Isopropanol	<0.040	<0.20	**0.11**	NE	NE

Notes:

Sub-slab soil vapor sample locations are shown on Figure 1.

VOCs = Volatile organic compounds analyzed by United States Environmental Protection Agency Method TO-15.

Laboratory report is included in Appendix C.

$\mu g/m^3$ = microgram per cubic meter.

ppm = Parts per million.

ESLs = Environmental Screening Levels, Table SG-1: Subslab Soil Gas and Exterior Soil Gas Vapor Intrusion Human Health Risk Screening Levels, San Francisco Bay Regional Water Quality Control Board, January 2019.

NE = ESL not established.

<x.x = Not detected, concentration is below laboratory reporting limit of x.x.

Bold value = Detected concentration.

Shaded value = Detected concentration exceeds the Residential ESL.

Underlined value = Detected concentration equals or exceeds the Commercial ESL.

APPENDIX A

EXCERPTS FROM PREVIOUS ENVIRONMENTAL DOCUMENTS

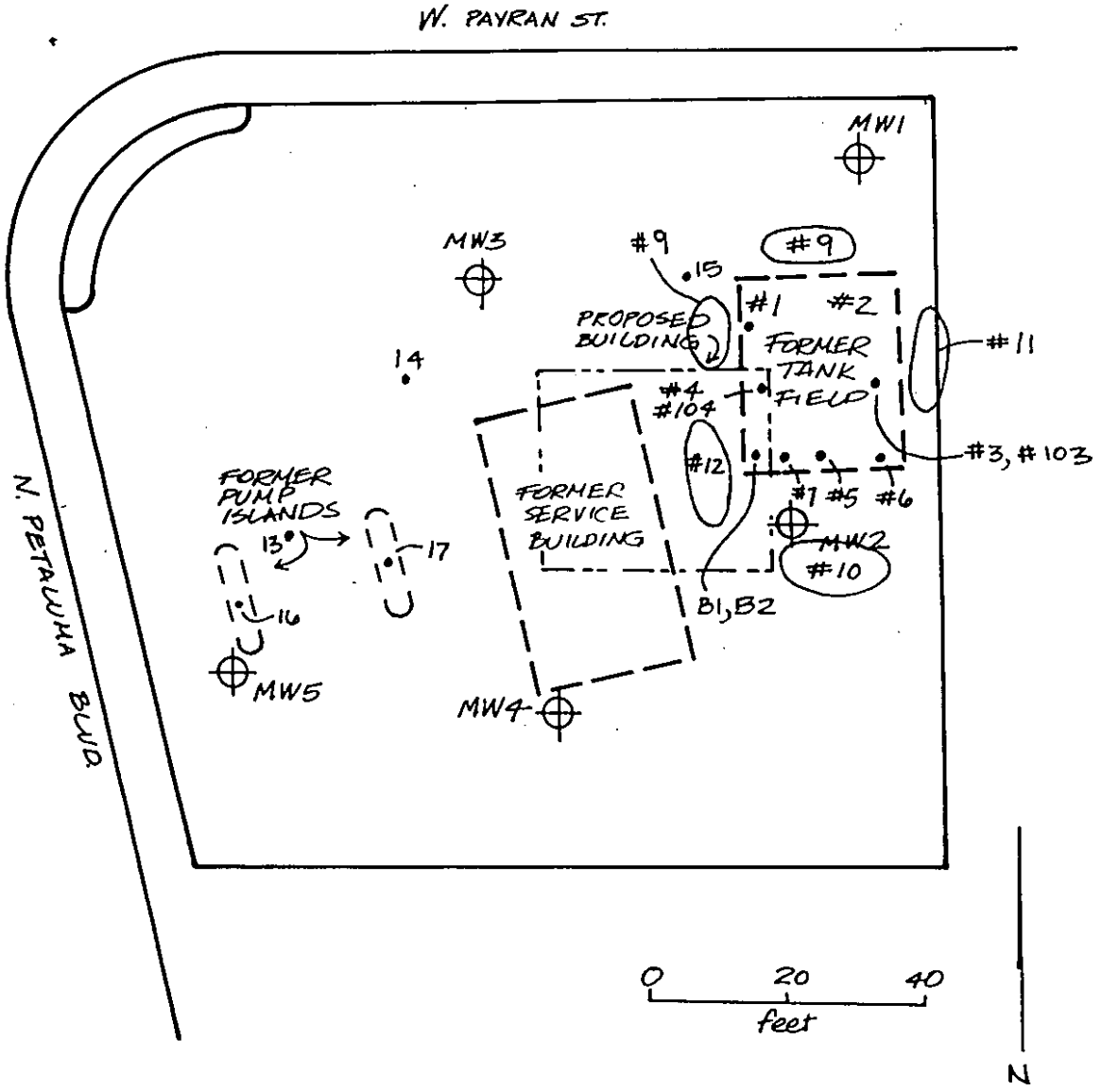


Figure 6. Approximate locations of soil samples taken by Blaine Tech Services, Inc. and GTI Monitoring Wells at Chevron SS 9-9728, Petaluma, California. (numbers correspond with Table 2).

Sources: Blaine 1986a, b.

TABLE 2 CONCENTRATIONS OF HYDROCARBONS (mg/lg) DETECTED IN SOILS DURING TANK EXCAVATION AT FORMER CHEVRON SERVICE STATION 9-9782
PETALUMA, CALIFORNIA

Sample ID[a]	DATE	Depth (feet)	Benzene	Toluene	Xylenes	TPH	Lead
Samples from within the Tank Field							
#1	16 Nov 86	13	<0.001	10	0.26	470	60
#2	16 Nov 86	13	<0.001	<0.001	31	850	38
#3	16 Nov 86	13	<0.001	<0.001	30	520	38
#103	16 Nov 86	17	<0.001	<0.001	51	680	43
#4	16 Nov 86	13	<0.001	<0.001	48	1,600	63
#104	16 Nov 86	15	<0.001	<0.001	0.1	460	63
#5	16 Nov 86	12	<0.001	<0.001	0.0042	1,200	50
#6	16 Nov 86	12	<0.001	<0.001	0.36	490	56
#7	16 Nov 86	10	<0.001	<0.001	3.4	15[b]	-
Samples from Outside the Tank Field							
A	24 Nov 86	13	2.2	0.36	3.4	18	-
B1	24 Nov 86	13	11	38	110	290	-
B2	24 Nov 86	17	0.31	0.037	0.66	8.9	-
Piping and Pump Island Areas[c]							
13	16 Nov 86	3.5	<0.001	<0.001	<0.001	<1	38
14	16 Nov 86	3.5	<0.001	<0.001	<0.001	<1	38
15	16 Nov 86	3.5	<0.001	<0.001	<0.001	<1	50
16	16 Nov 86	3.5	<0.001	<0.001	<0.001	<1	<20
17	16 Nov 86	3.5	<0.001	<0.001	<0.001	<1	75
Stockpiled Soils (Composite Samples)							
#9	16 Nov 86	N/A	-	-	-	5.2	-
#10	16 Nov 86	N/A	---	---	---	440	-
#11	16 Nov 86	N/A	-	-	-	1,500	-
#12	16 Nov 86	N/A	-	-	-	<1	-

a. Corresponds with Figure 6.
b. Calculated as waste oil.
c. Originally identified in Blaine 1986a as 13 = Pipe 1; 14 = Pipe 2; 15 = Pipe 3; 16 = Isle 1; 17 = Isle 2.

Note: - = not done; N/A = not applicable; TPH = total petroleum hydrocarbon calculated as gasoline.

TABLE 3 CONCENTRATIONS OF CONTAMINANTS IN SOIL (mg/kg) AND GROUND WATER (mg/L) AT FORMER CHEVRON SERVICE STATION 9-9728, PETALUMA, CALIFORNIA

Sample	Depth/Date	Benzene	Toluene	Xylene	TPH[a]	Ethylbenzene
MW1						
Soil	9-9.5'	0.006	0.028	0.038	0.11	-
Ground Water	02/04/87	<0.001	0.006	0.003	<0.05	-
Ground Water	04/292/87	<0.0005	<0.0005	<0.0005	0.016	<0.0005
MW2						
Soil	9-9.5'	0.45	0.15	1.2	24	0.305
Ground Water	02/04/87	1.8	3.2	7.6	25	-
Ground Water	04/29/87	0.722	0.597	1.517	4.968	0.305
MW3						
Soil	9-9.5'	0.074	0.067	0.055	2.3	-
Ground Water	02/04/87	0.019	0.015	0.011	0.71	-
Ground Water	04/29/87	0.052	0.002	0.001	0.174	0.013
MW4						
Soil	9'	<0.5	<0.5	<0.5	<0.5	<0.5
Ground Water	04/29/87	<0.0005	0.002	0.001	0.007	<0.0005
MW5						
Soil	4'	0.9	<0.5	<0.5	0.9	<0.5
Soil	9'	5.1	<0.5	<0.5	5.1	<0.5
Ground Water	04/29/87	0.165	0.188	0.249	1.176	0.049

a. Calculated as gasoline.
Note: - = not analyzed.

Sources: Kline and Taggart 1987; GTI 1987.

TABLE 5 CONCENTRATIONS OF HYDROCARBON CONSTITUENTS IN SOIL VAPOR AT CHEVRON SS 9-9728, 860 N. PETALUMA BOULEVARD, PETALUMA, CALIFORNIA, 26 AUGUST 1987

Sample Location	Depth (ft)	Peaks[2] Prior to Benzene (ppm)[1]	Benzene (ppm)	Toluene (ppm)	Total Volatile Hydrocarbons (ppm)[1]
V1A	3	<1	<1	<1	<2
V1B	5.5	<1	<1	<1	<1
V1C	8	<1	<1	<1	<1
V1D	10.5	<1	<1	<1	<1
V1E	11.5	<1	<1	<1	<1
V2A	5.5	<1	<1	<1	<1
V2B	10.5	<1	<1	<1	<1
V3A	5.5	<1	<1	<1	<1
V3B	9.0	<1	<1	<1	<1
V4	5.5	<1	<1	<1	<1
V5A	5.5	<1	<1	<1	<1
V5B[3]	10.0	<3	<1	<1	8
V6A	5.5	390	<20	170	1,400
V6B	10.5	500	<20	250	1,900
V7A	5.5	<3	<1	<1	35
V8A	5.5	<4	<1	<1	<6
V9A	5.5	<1	<1	<1	<1

BLANK DATA

Test Time	Peaks Prior to Benzene (ppm)[1]	Benzene (ppm)	Toluene (ppm)	Total Volatile Hydrocarbons (ppm)[1]
1147	<0.1	<0.1	<0.3	<0.5
1207	<0.1	<0.1	<0.2	<0.2
1353	<0.1	<0.1	<0.1	<0.1

PERCENTAGE OF STANDARD RECOVERED

Test Time	Standard	
	Benzene	Toluene
1136	105	123
1359	101	108
1500	96	103
1630	101	99

TABLE 5 (CONT.)

GASOLINE STANDARD

Sample	Peaks Prior to Benzene (ppm)[1]	Benzene (ppm)	Toluene (ppm)	Total Volatile Hydrocarbons (ppm)[1]
Shell Unleaded (headspace)	28,000	2,500	4,400	42,000

1 Volt-seconds expressed as ppm benzene.
2 Peaks eluting prior to 0.5 minute are not incorporated into this value.
3 Possible syringe contamination from sample V6A.

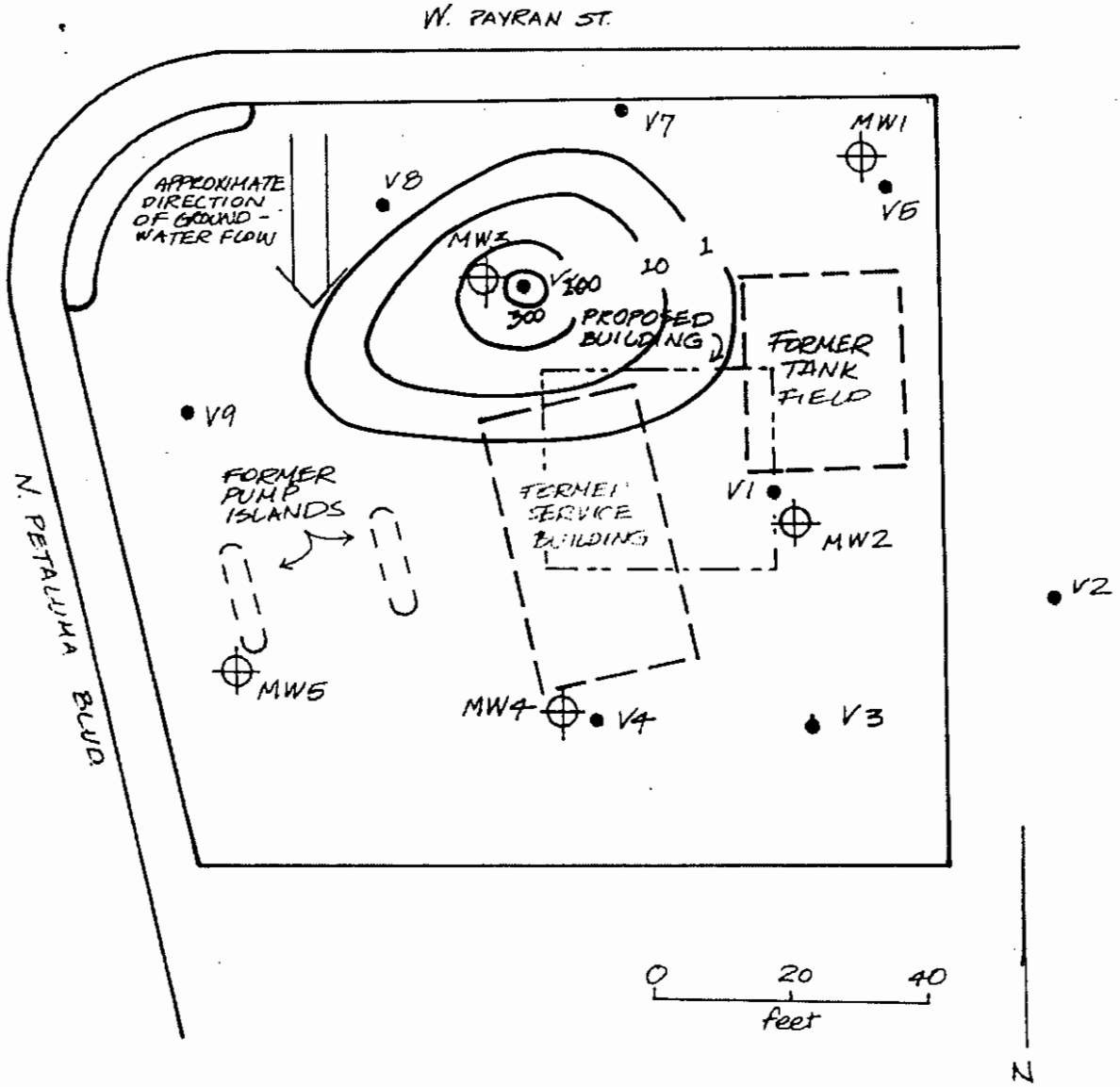


Figure 8. Soil gas isoconcentration of compounds which elute prior to benzene (ppm) at 10' depth, logarithmically interpolated, former Chevron Service Station 9-9728, Petaluma, California.

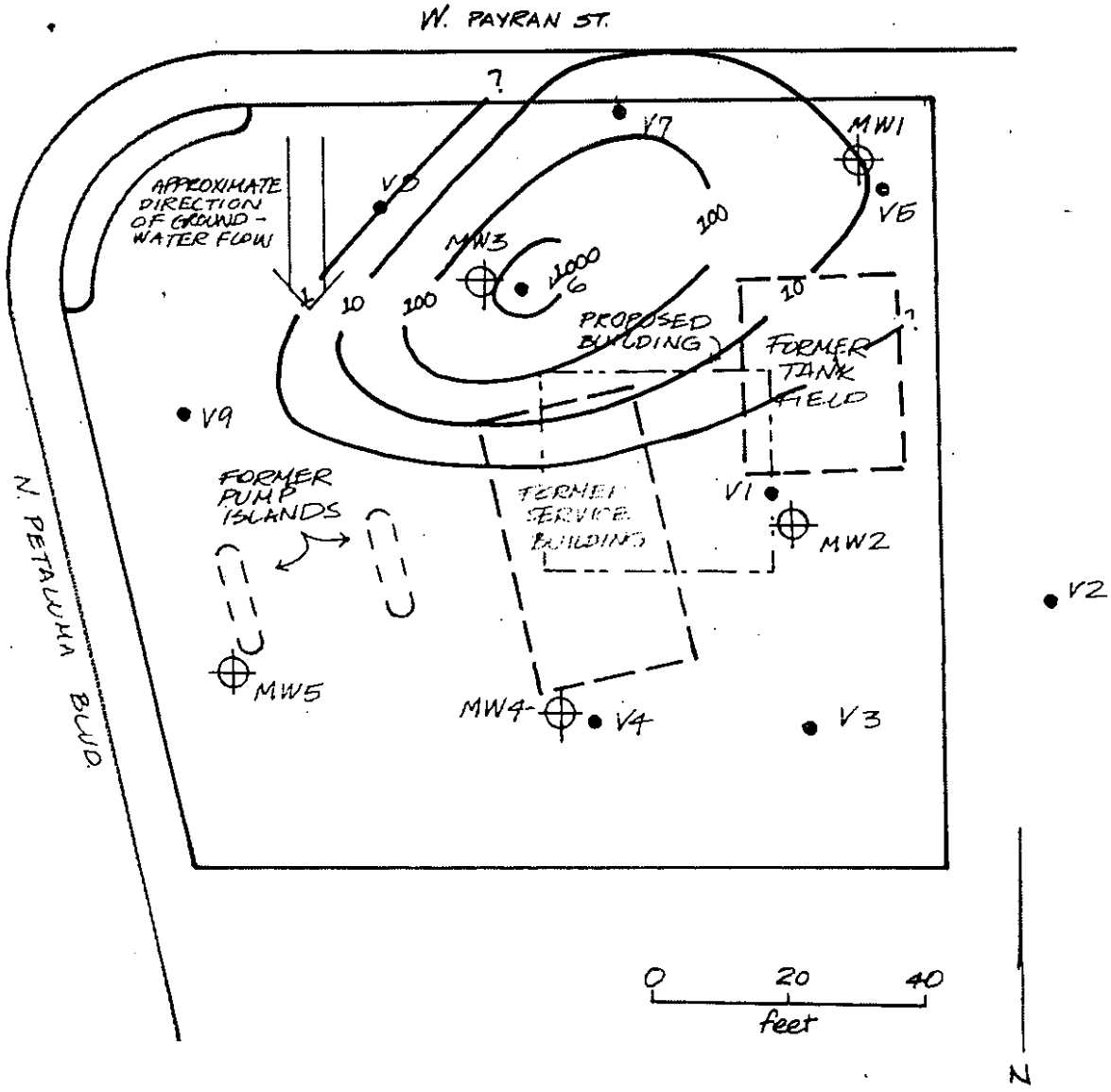


Figure 9. Soil gas isoconcentrations of total volatile hydrocarbons (ppm) at 10' depth, logarithmically interpolated, at former Chevron Service Station 9-9728, Petaluma, California.

TABLE 1. Analytic Results for Soil, Chevron SS #99728, Petaluma, California

Sample ID	Sample Location	Sample Depth (ft)	Date Sampled	TFHC (ppm)
S-1	Excavation Floor	11.5	3/1/88	<10
S-2	Excavation Floor	11.5	3/1/88	<10
S-3	Excavation Floor	11.5	3/1/88	37
S-4	Excavation Floor	11.5	3/1/88	30
S-5	Excavation Floor	11.5	3/1/88	300
S-6	Excavation Floor	11.5	3/2/88	<10
S-7	Excavation Floor	13.0	3/2/88	<10
S-8	Excavation Floor	11.5	3/3/88	NA
S-9	Excavation Floor	13.0	3/3/88	<10
S-10	Excavation Floor	14.0	3/4/88	<10
S-11	Excavation Floor	15.0	3/4/88	<10
S-12	Excavation Floor	11.5	3/4/88	<10
S-13	Product Piping Trench	1.5	3/10/88	<10
S-14	Product Piping Trench	1.5	3/10/88	38
S-15	Product Piping Trench	1.5	3/10/88	<10
S-16	Product Piping Trench	1.5	3/10/88	<10
S-17	Product Piping Trench	1.5	3/10/88	<10
S-1 Comp	Stockpile	-	3/1/88	160
S-2 Comp	Stockpile	-	3/1/88	960
S-3 Comp	Stockpile	-	3/1/88	290
C-4, 5 Comp	Stockpile	-	3/2/88	150
C-6, 7 Comp	Stockpile	-	3/2/88	220
C-8, 9 Comp	Stockpile	-	3/3/88	410
C-10, 11 Comp	Stockpile	-	3/3/88	360
C-12, 13 Comp	Stockpile	-	3/4/88	340

Explanation:

TFHC = Total Fuel Hydrocarbons

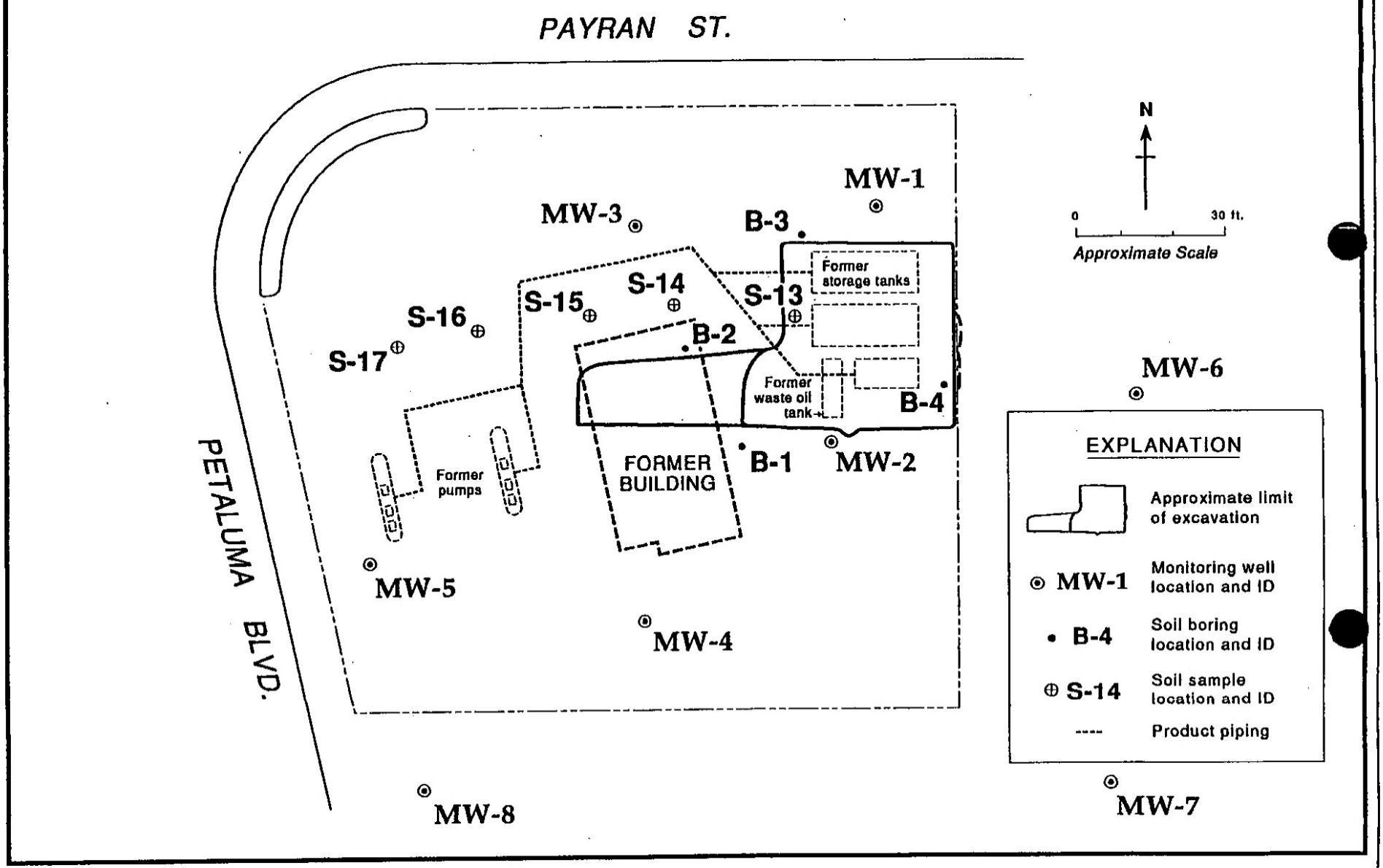


Figure 2. Monitoring Well, Soil Boring and Product Piping Sample Locations - Chevron Service Station #9728, Petaluma, California

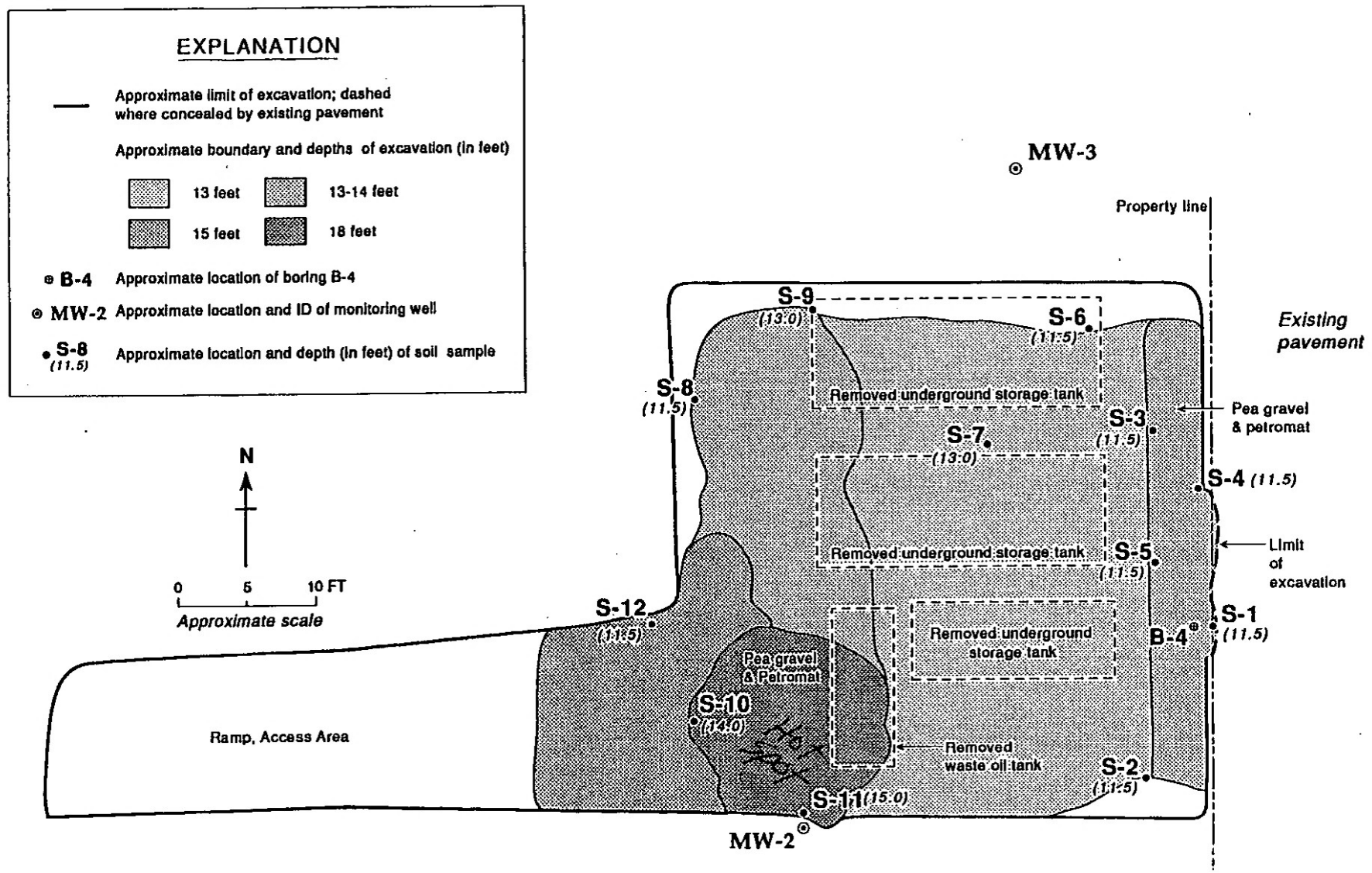


Figure 3. Soil Sample Locations and Approximate Vertical and Horizontal Limits of Excavation - Chevron Service Station #9728, Petaluma, California

TABLE 2. Results of Soil Analyses - Former Chevron Service Station #99728, Petaluma, California

Sample ID	Sample Depth (ft)	Sample Date	Analytic Lab	Analytic Method	Sat/ Unsat	TFHC	B	T	X	EDC	EDB
						<---------- parts per million ---------->					
MW-1 (GTI)	9 - 9.5	1-30-87	W	8015/8020	Unsat	0.11	0.006	0.28	0.38	---	---
B-1	6.5	12-18-87	B&C	8015	Unsat	<10	---	---	---	---	---
	12.8	12-18-87	B&C	8015	Unsat	<10	---	---	---	---	---
	15.5	12-18-87	B&C	8015	Sat	<10	---	---	---	---	---
MW-2 (GTI)	9-9.5	1-30-87	W	8015/8020	Unsat	24	0.45	150	1.2	---	---
B-2	6.5	12-18-87	B&C	8015	Unsat	<10	---	---	---	---	---
	10.5	12-18-87	B&C	8015	Unsat	<10	---	---	---	---	---
	15.5	12-18-87	B&C	8015	Sat	<10	---	---	---	---	---
MW-3 (GTI)	9-9.5	1-30-87	W	8015/8020	Unsat	2.3	0.074	0.067	0.55	---	---
B-3	2.0	12-21-87	B&C	8015	Unsat	<10	---	---	---	---	---
	13.5	12-21-87	B&C	8015	Unsat	<10	---	---	---	---	---
	15.5	12-21-87	B&C	8015	Sat	<10	---	---	---	---	---
MW-4 (GTI)	9	4-28-87	GT	8020	Unsat	<0.5	<0.5	<0.5	<0.5	---	---
B-4	4.5	12-21-87	B&C	8015	Unsat	180	---	---	---	---	---
	11.5	12-21-87	B&C	8015	Unsat	1,000	---	---	---	---	---
	12.0	12-21-87	B&C	8015	Unsat	520	---	---	---	---	---
	13.0	12-21-87	B&C	8015	Unsat	<10	---	---	---	---	---
	15.2	12-21-87	B&C	8015	Sat	<10	---	---	---	---	---
MW-5 (GTI)	4	4-28-87	GT	8020	Unsat	0.9	<0.5	<0.5	<0.5	---	---
MW-5 (GTI)	9	4-28-87	GT	8020	Unsat	5.1	5.1	<0.5	<0.5	---	---
B-6	6.5	1-05-88	B&C	8015	Unsat	<10	---	---	---	---	---
	15	1-05-88	B&C	8015	Sat	<10	---	---	---	---	---

(Table 1 continues on next page)

TABLE 2. Results of Soil Analyses - Former Chevron Service Station #99728, Petaluma, California

Sample ID	Sample Depth (ft)	Sample Date	Analytic Lab	Analytic Method	Sat/ Unsat	TFHC	B	T	X	EDC	EDB
						<---------- parts per million ---------->					
B-7	7	1-06-88	B&C	8015	Unsat	<10	---	---	---	---	---
	14.3	1-06-88	B&C	8015	Sat	<10	---	---	---	---	---
B-8	9	1-07-88	B&C	8015	Unsat	<10	---	---	---	---	---
	14.3	1-07-88	B&C	8015	Sat	<10	---	---	---	---	---
BH-9	11	12-02-88	CCAS	524.2/8240	Unsat	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001
	16	12-02-88	CCAS	524.2/8240	Sat	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001
	21	12-02-88	CCAS	524.2/8240	Sat	<0.1	<0.001	<0.001	<0.001	<0.001	<0.001

Abbreviations:

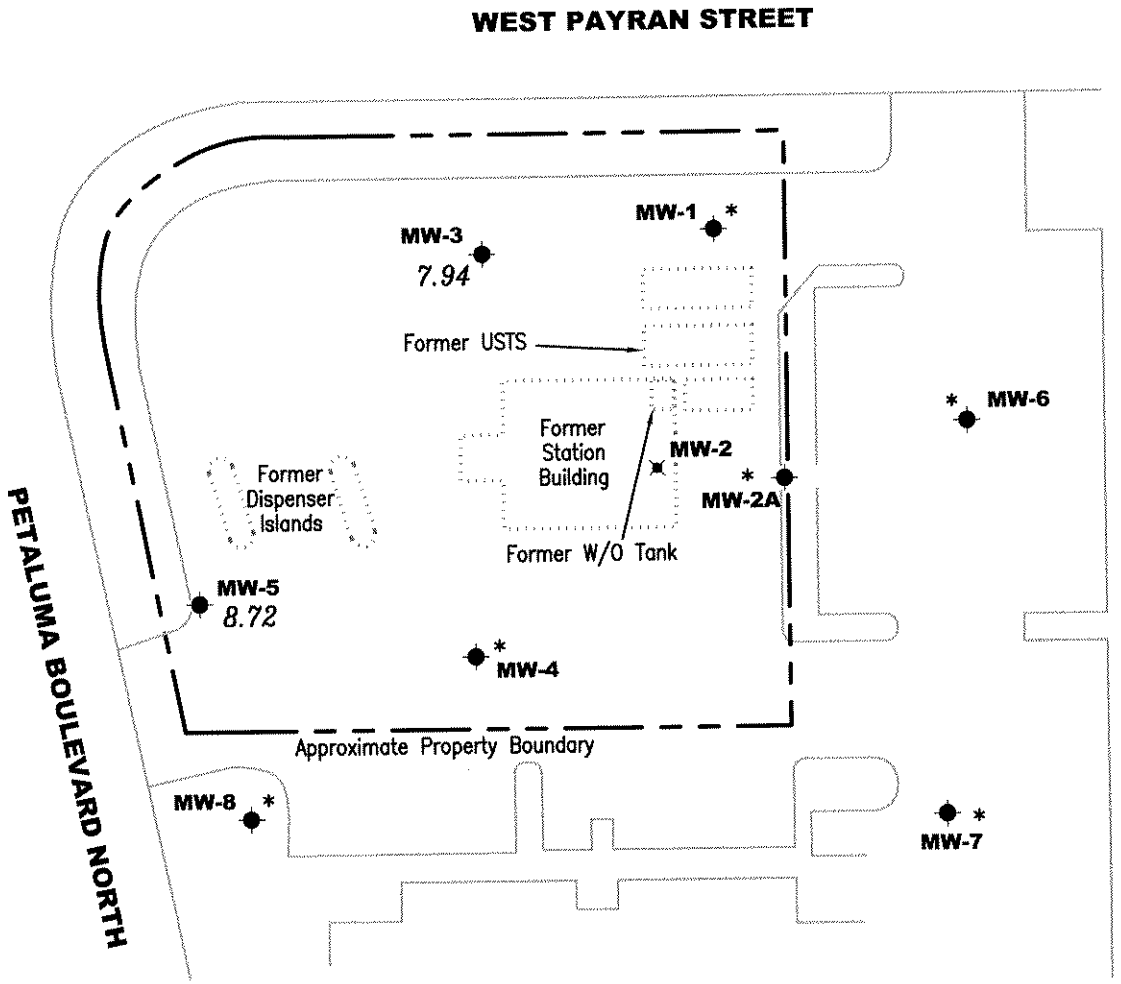
TFHC = Total Fuel Hydrocarbons
B = Benzene
T = Toluene
X = Total xylene isomers
--- = Not analyzed
EDC = 1,2-dichloroethane
EDB = Ethylene dibromide
Sat/Unsat = Saturated/Unsaturated

Analytic Laboratory:

W = Wesco Laboratories
B&C = Brown & Caldwell Analytical Laboratories, Emeryville, California
GTI = Groundwater Technology, Inc.
CCAs = Central Coast Analytical Services of San Luis Obispo, California

Analytic Methods:

EPA 8015 = Total Fuel Hydrocarbons
EPA 8020 = Aromatic Volatile Hydrocarbons
524.2/8240 = Fuel Fingerprint Analysis - EPA Method 524.2/8240, Total Fuel and Aromatic Volatile Hydrocarbons



EXPLANATION

- ✸ Groundwater monitoring well
- ✸ Destroyed well
- *99.99* Groundwater elevation in feet referenced to Mean Sea Level
- * Discontinued from monitoring/ sampling program

N

0 40

Scale in Feet

Source: Figure modified from drawing provided by RRM engineering contracting firm.

FIGURE 1

GETTLER - RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568 (925) 551-7555

GROUNDWATER ELEVATION MAP
Former Chevron Service Station #9-9728
860 Petaluma Boulevard North
Petaluma, California

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
385283		June 30, 2005	

FILE NAME: P:\Enviro\Chevron\9-9728\Q05-9-9728.dwg | Layout Tab: Pot2

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-5										
04/29/87	--	--	--	1,176	165	188	49	249	--	--
01/11/88	--	--	--	<1,000	34	2.0	<0.5	5.6	--	--
03/10/88	18.70	8.31	10.39	--	--	--	--	--	--	--
06/24/88	18.70	9.00	9.70	--	--	--	--	--	--	--
09/16/88	18.70	--	--	--	--	--	--	--	--	--
12/20/88	18.70	4.16	14.54	<100	<0.2	<2.0	<2.0	<2.0	--	--
01/09/89	18.70	7.34	11.36	--	--	--	--	--	--	--
03/29/89	18.70	8.76	9.94	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
06/20/89	18.70	7.67	11.03	500	15	0.6	<0.5	0.6	--	--
09/20/89	18.70	7.31	11.39	580	1.2	6.0	1.0	6.0	--	--
12/20/89	18.70	6.79	11.91	<250	15	<0.5	<0.5	<0.5	--	--
03/20/90	18.70	7.88	10.82	<50	16	<0.5	<0.5	<0.5	--	--
06/23/90	18.70	7.80	10.90	<50	14	<0.5	0.5	1.2	--	--
10/08/90	18.70	6.77	11.93	<50	20	<0.5	0.8	1.2	--	--
04/10/91	18.70	8.67	10.03	570	130	<0.5	5.8	1.2	--	--
10/22/91	18.70	6.76	11.94	380	81	13	5.0	8.5	--	--
03/23/92	18.70	9.68	9.02	86	51	<0.5	1.3	0.5	--	--
09/09/92	18.70	7.73	10.97	210	25	0.7	3.9	8.2	--	--
09/24/93	18.70	7.65	11.05	820	180	13	15	14	--	--
03/09/94	18.70	9.08	9.62	110	48	<0.5	1.8	2.0	--	--
09/08/94	18.70	7.50	11.20	95	1.6	<0.5	<0.5	<0.5	--	--
03/24/95	18.70	11.17	7.53	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/24/95	18.70	9.57	9.13	--	--	--	--	--	--	--
09/15/95	18.70	8.01	10.69	<50	2.8	<0.5	<0.5	<0.5	--	--
03/05/96	18.70	10.36	8.34	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/20/96	18.70	7.73	10.97	360	17	<0.5	7.8	0.9	<5.0	--
03/10/97	18.70	9.11	9.59	<50	1.6	<0.5	<0.5	<0.5	<5.0	--
09/25/97	18.70	7.22	11.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/12/98	18.70	10.32	8.38	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/09/98	18.70	7.70	11.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/01/99	18.70	9.89	8.81	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
09/22/99	18.70	7.25	11.45	<50	2.05	<0.5	<0.5	<0.5	<5.0	--
03/30/00	18.70	9.09	9.61	<50	5.66	<0.5	<0.5	<0.5	<5.0	--
08/25/00	18.70	7.04	11.66	69.5	10.5	<0.500	<0.500	<0.500	<2.50	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-5 (cont)											
03/21/01		18.70	8.58	10.12	113[3]	11.1	0.518	1.79	1.21	9.49/<2.0[4]	--
09/25/01		18.70	6.19	12.51	110	4.2	0.75	<0.50	<1.5	<2.5/<2[4]	--
12/31/01		18.70	9.35	9.35	210	13	<0.50	1.1	<1.5	<2.5/<2[4]	--
03/20/02		18.70	8.78	9.92	810	92	<0.50	12	1.6	<2.5/<2[4]	--
06/10/02		18.70	7.96	10.74	360	33	<0.50	4.1	<1.5	<2.5/<0.5[4]	--
09/03/02		18.70	7.09	11.61	150	1.7	<0.50	<0.50	<1.5	<2.5/<0.5[4]	--
12/06/02		18.70	6.86	11.84	520	23	<0.50	1.6	<1.5	<2.5/1[4]	--
03/04/03		18.70	8.64	10.06	350	33	<0.50	5.4	<1.5	<2.5/<0.5[4]	--
06/17/03[6]		18.70	8.11	10.59	<50	0.8	<0.5	<0.5	<0.5	<0.5	--
09/22/03[8]		18.70	6.92	11.78	--	--	--	--	--	--	--
10/11/03[9]		18.70	6.87	11.83	530	22	0.5	2	0.8	--	--
06/29/04[9]		18.70	7.55	11.15	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/04[6]		18.70	7.16	11.54	80	2	<0.5	<0.5	<0.5	<0.5	--
12/20/04[6]		18.70	7.92	10.78	56	3	0.7	<0.5	0.6	<0.5	--
03/21/05[6]		18.70	9.45	9.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/30/05[6]		**18.70**	**8.72**	**9.98**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	--
MW-1											
02/04/87		--	--	--	50	<1.0	6.0	--	3.0	--	--
04/29/87		--	--	--	16	<0.5	<0.5	<0.5	<0.5	--	--
01/07/88		--	--	--	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
03/10/88		19.05	8.27	10.78	--	--	--	--	--	--	--
06/24/88		19.05	8.55	10.50	--	--	--	--	--	--	--
09/16/88		19.05	--	--	--	--	--	--	--	--	--
12/20/88		19.05	7.14	11.91	<100	<2.0	<2.0	<2.0	<2.0	--	--
12/20/88	(D)	19.05	--	--	<100	<1.0	<1.0	<1.0	<1.0	--	--
01/09/89		19.05	7.96	11.09	--	--	--	--	--	--	--
03/29/89		19.05	--	--	--	--	--	--	--	--	--
06/22/89		19.05	8.31	10.74	1,100	<0.5	0.6	<0.5	1.7	--	--
09/20/89		19.05	8.19	10.86	<250	<0.5	<0.5	<0.5	<0.5	--	--
12/20/89		19.05	7.47	11.58	<250	<0.5	<0.5	<0.5	<0.5	--	--
03/20/90		19.05	8.51	10.54	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/23/90		19.05	8.39	10.66	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/23/90	(D)	19.05	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-1 (cont)										
10/08/90	19.05	7.36	11.69	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/10/91	19.05	--	--	--	--	--	--	--	--	--
10/22/91[1]	19.05	--	--	--	--	--	--	--	--	--
09/24/93	19.05	8.33	10.72	--	--	--	--	--	--	--
03/09/94	19.05	9.80	9.25	--	--	--	--	--	--	--
09/08/94	19.05	8.15	10.90	--	--	--	--	--	--	--
03/24/95	19.05	16.17	2.88	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/24/95	19.05	10.09	8.96	--	--	--	--	--	--	--
09/15/95	19.05	8.59	10.46	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/05/96	19.05	11.43	7.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/20/96	19.05	8.32	10.73	<50	<0.5	<0.5	<0.5	<0.5	13	--
03/10/97	19.05	9.70	9.35	<50	<0.5	<0.5	<0.5	<0.5	10	--
09/25/97	19.05	7.80	11.25	<50	<0.5	<0.5	<0.5	<0.5	22	--
03/12/98	19.05	10.88	8.17	<50	<0.5	<0.5	<0.5	<0.5	2.8	--
09/09/98	19.05	8.28	10.77	<50	<0.5	<0.5	<0.5	<0.5	46	--
03/01/99	19.05	10.90	8.15	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
09/22/99	19.05	8.14	10.91	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/30/00	19.05	9.69	9.36	<50	<0.5	<0.5	<0.5	<0.5	107	--
08/25/00	19.05	7.61	11.44	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
03/21/01	19.05	9.68	9.37	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<2.0[4]	--
09/25/01	19.05	6.89	12.16	--	<0.50	<0.50	<0.50	<1.5	--/280[4]	--
12/31/01[6]	19.05	11.43	7.62	--	<0.5	<0.5	<0.5	<0.5	<2	--
03/20/02[6]	19.05	9.45	9.60	--	<0.5	<0.5	<0.5	<0.5	80	--
06/10/02[6]	19.05	8.59	10.46	--	<0.5	<0.5	<0.5	<0.5	0.7	--
09/03/02[6]	19.05	7.67	11.38	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/06/02[6]	19.05	7.47	11.58	<50	<0.5	<0.5	<0.5	<0.5	650	--
03/04/03[6]	19.05	9.34	9.71	--	<0.5	<0.5	<0.5	<0.5	1,700	--
06/17/03[6]	19.05	8.76	10.29	--	<0.5	<0.5	<0.5	<0.5	2,000	--
09/22/03[8]	19.05	7.69	11.36	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED										
MW-2										
02/04/87	--	--	--	25,000	1,800	3,200	--	7,600	--	--
04/29/87	--	--	--	4,968	722	597	305	1,517	--	--
01/06/88	--	--	--	<1,000	70	8.6	<0.5	29	--	--
03/10/88	19.33	7.89	11.44	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-2										
06/24/88	19.33	8.33	11.00	<1,000	<1.0	<1.0	<1.0	3.0	--	--
09/16/88	19.33	6.53	12.80	240	21	20	3.0	29	--	--
DESTROYED (replaced by well MW-2A)										
MW-2A										
12/09/88	--	6.55	12.35	<50	<0.1	0.8	<0.1	<0.2	--	--
01/09/89	18.90	7.16	11.74	--	--	--	--	--	--	--
03/29/89	18.90	--	--	--	--	--	--	--	--	--
06/21/89	18.90	7.47	11.43	760	<0.5	0.6	<0.5	1.3	--	--
09/19/89	18.90	7.25	11.65	<250	<0.5	<0.5	<0.5	<0.5	--	<100
12/19/89	18.90	6.87	12.03	<250	<0.5	<0.5	<0.5	<0.5	--	250
03/20/90	18.90	7.39	11.51	<50	<0.5	<0.5	<0.5	<0.5	--	<100
06/23/90	18.90	7.90	11.43	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/08/90	18.90	7.00	12.33	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/10/91	18.90	9.18	10.15	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/22/91	18.90	6.92	12.41	86	2.9	5.7	0.6	3.3	--	--
03/23/92	18.90	9.89	9.44	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/09/92	18.90	7.96	11.37	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/24/93	18.90	7.90	11.43	<50	<0.5	<0.5	<0.1	1.0	--	--
03/09/94	18.90	9.31	10.02	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/08/94	18.90	INACCESSIBLE		--	--	--	--	--	--	--
03/24/95	18.90	11.51	7.82	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/15/95	18.90	8.20	11.13	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/05/96	18.90	10.01	8.89	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/20/96	18.90	7.50	11.40	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/10/97	18.90	8.71	10.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/25/97	18.90	7.00	11.90	250	37	23	7.8	18	24	--
03/12/98	18.90	9.92	8.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/09/98	18.90	7.58	11.32	<50	<0.5	<0.5	<0.5	<0.5	6.2	--
03/01/99	18.90	9.65	9.25	<50	<0.5	<0.5	<0.5	<0.5	2.91	--
09/22/99	18.90	9.35	9.55	<50	<0.5	<0.5	<0.5	<0.5	28.3	--
03/30/00	18.90	8.61	10.29	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/25/00	18.90	UNABLE TO LOCATE		--	--	--	--	--	--	--
03/21/01	18.90	8.41	10.49	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<2.0[4]	<5.0
09/25/01	18.90	5.91	12.99	--	<0.50	<0.50	<0.50	<1.5	--/3[4]	--
12/31/01[6]	18.90	9.19	9.71	--	<0.5	0.6	<0.5	<0.5	<2	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-2A (cont)											
03/20/02[6]		18.90	8.61	10.29	--	<0.5	<0.5	<0.5	<0.5	3	--
06/10/02[6]		18.90	7.75	11.15	--	<0.5	<0.5	<0.5	<0.5	5	--
09/03/02[6]		18.90	6.89	12.01	--	<0.5	<0.5	<0.5	<0.5	51	--
12/06/02[6]		18.90	6.66	12.24	<50	<0.5	<0.5	<0.5	<0.5	82	--
03/04/03[6]		18.90	8.46	10.44	--	<0.5	<0.5	<0.5	<0.5	28	--
06/17/03[6]		18.90	8.12	10.78	--	<0.5	<0.5	<0.5	<0.5	10	--
09/22/03[8]		18.90	6.90	12.00	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED											
MW-3											
02/04/87		--	--	--	710	19	15	710	11	--	--
04/29/87		--	--	--	174	52	2.0	174	1.0	--	--
01/08/88		--	--	--	<1,000	1.6	0.5	<0.5	<0.5	--	--
03/10/88		19.41	8.49	10.92	--	--	--	--	--	--	--
06/24/88		19.41	8.81	10.60	<1,000	<1.0	<1.0	<1.0	<1.0	--	--
09/16/88		19.41	6.56	12.85	<50	1.4	<1.0	<1.0	<1.0	--	--
12/09/88		19.41	7.16	12.25	<50	0.4	<2.0	<2.0	<2.0	--	--
12/09/88	(D)	19.41	--	--	<50	0.5	<2.0	<2.0	<2.0	--	--
01/09/89		19.41	7.74	11.67	--	--	--	--	--	--	--
03/29/89		19.41	--	--	--	--	--	--	--	--	--
06/22/89		19.41	7.96	11.45	660	17	0.5	3.9	1.7	--	--
09/20/89		19.41	7.75	11.66	<250	23	<0.5	4.5	<0.5	--	--
12/20/89		19.41	7.25	12.16	<250	1.2	<0.5	<0.5	<0.5	--	--
03/20/90		19.41	8.32	11.09	65	14	<0.5	2.3	0.5	--	--
06/23/90		19.41	8.23	11.18	90	7.6	<0.5	2.0	<0.5	--	--
10/08/90		19.41	7.20	12.21	<50	2.0	<0.5	0.7	1.0	--	--
04/10/91		19.41	9.20	10.21	280	31	<0.5	5.4	2.0	--	--
10/22/91		19.41	6.61	12.80	1,800	130	230	21	120	--	--
03/23/92		19.41	10.21	9.20	130	26	<0.5	4.8	1.7	--	--
09/09/92		19.41	8.18	11.23	180	7.2	<0.5	1.4	1.1	--	--
09/24/93		19.41	8.11	11.30	170	4.0	1.0	<0.5	1.0	--	--
03/09/94		19.41	9.55	9.86	300	14	1.4	2.3	2.9	--	--
09/08/94		19.41	8.05	11.36	98	3.3	<0.5	<0.5	<0.5	--	--
03/24/95		19.41	11.83	7.58	230	25	<0.5	3.0	2.5	--	--
04/24/95		19.41	10.77	8.64	--	--	--	--	--	--	--
09/15/95		19.41	8.48	10.93	130	8.0	3.0	0.6	<0.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-3 (cont)										
03/05/96	19.41	10.68	8.73	90	3.6	<0.5	0.7	<0.5	41	--
09/20/96	19.41	8.18	11.23	80	0.7	<0.5	<0.5	<0.5	88	--
03/10/97	19.41	9.68	9.73	54[2]	1.0	<0.5	<0.5	<0.5	98	--
09/25/97	19.41	7.64	11.77	350	<0.5	<0.5	<0.5	<0.5	280	--
03/12/98	19.41	10.73	8.68	<500	<5.0	<5.0	<5.0	<5.0	1,000	--
09/09/98	19.41	8.14	11.27	<1,000	<10	<10	<10	<10	1,300	--
03/01/99	19.41	10.51	8.90	<500	<5.0	<5.0	<5.0	<5.0	1,410	--
09/22/99	19.41	7.74	11.67	89.6	1.57	0.919	<0.5	<0.5	<5.0	--
03/30/00	19.41	9.58	9.83	263	7.22	1.54	1.0	<0.5	6710	--
08/25/00	19.41	7.43	11.98	339	<2.50	<2.50	<2.50	<2.50	545	--
03/21/01	19.41	9.10	10.31	<100	<1.00	<1.00	<1.00	<1.00	500/450[5]	--
09/25/01	19.41	6.73	12.68	<50	<0.50	<0.50	<0.50	<1.5	420/420[4]	--
12/31/01	19.41	10.00	9.41	<50	0.70	0.59	<0.50	<1.5	400/360[4]	--
03/20/02	19.41	9.31	10.10	53	1.4	<0.50	<0.50	<1.5	340/360[4]	--
06/10/02	19.41	8.40	11.01	<50	0.51	<0.50	<0.50	<1.5	290/260[4]	--
09/03/02	19.41	7.48	11.93	<50	<0.50	<0.50	<0.50	<1.5	150/130[4]	--
12/06/02	19.41	7.28	12.13	<50	<0.50	<0.50	<0.50	<1.5	300/290[4]	--
03/04/03	19.41	9.14	10.27	<50	1.1	<0.50	<0.50	<1.5	240/230[4]	--
06/17/03[6]	19.41	8.54	10.87	<50	0.8	<0.5	<0.5	<0.5	120	--
09/22/03[8]	19.41	7.53	11.88	--	--	--	--	--	--	--
10/11/03[9]	19.41	7.26	12.15	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/29/04[9]	19.41	7.94	11.47	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/04[10]	19.41	7.43	11.98	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED										
MW-4										
04/29/87	--	--	--	7.0	<0.5	2.0	<0.5	1.0	--	--
01/06/88	--	--	--	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
03/10/88	17.61	9.38	8.23	--	--	--	--	--	--	--
06/24/88	17.61	7.01	10.60	<1,000	<1.0	<1.0	<1.0	<1.0	--	--
09/15/88	17.61	6.65	10.96	<50	<0.1	<1.0	<1.0	<1.0	--	--
12/09/88	17.61	6.65	10.96	<50	<0.2	<2.0	<2.0	<2.0	--	--
01/09/89	17.61	7.37	10.24	--	--	--	--	--	--	--
03/29/89	17.61	9.00	8.61	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
06/21/89	17.61	7.55	10.06	<500	<0.5	0.6	<0.5	<0.5	--	--
09/20/89	17.61	7.33	10.28	<250	<0.5	<0.5	<0.5	<0.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-4 (cont)										
12/20/89	17.61	6.88	10.73	<250	<0.5	<0.5	<0.5	<0.5	--	--
03/20/90	17.61	7.85	9.76	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/23/90	17.61	7.81	9.80	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/08/90	17.61	6.80	10.81	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/10/91	17.61	8.71	8.90	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/22/91	17.61	6.67	10.94	79	1.7	4.1	0.5	2.5	--	--
03/23/92	17.61	9.68	7.93	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/09/92	17.61	7.73	9.88	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/24/93	17.61	7.67	9.94	64	18	16	1.0	8.0	--	--
03/09/94	17.61	9.07	8.54	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/08/94	17.61	7.71	9.90	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/24/95	17.61	11.30	6.31	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/24/95	17.61	8.76	8.85	--	--	--	--	--	--	--
09/15/95	17.61	7.99	9.62	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/05/96	17.61	10.35	7.26	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/20/96	17.61	7.76	9.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/10/97	17.61	9.07	8.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/25/97	17.61	7.22	10.39	<50	0.6	<0.5	<0.5	<0.5	<5.0	--
03/12/98	17.61	10.14	7.47	<50	2.1	5.8	0.65	3.2	3.8	--
09/09/98	17.61	7.63	9.98	<50	<0.5	<0.5	<0.5	<0.5	11	--
03/01/99	17.61	10.01	7.60	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
09/22/99	17.61	7.26	10.35	<50	<0.5	<0.5	<0.5	<0.5	41.9	--
03/30/00	17.61	8.90	8.71	<50	<0.5	<0.5	<0.5	<0.5	108	--
08/25/00	17.61	6.93	10.68	<50.0	<0.500	<0.500	<0.500	<0.500	137	--
03/21/01	17.61	8.59	9.02	<50.0	<0.500	<0.500	<0.500	<0.500	259/220[4]	<5.0
09/25/01	17.61	6.15	11.46	--	<0.50	<0.50	<0.50	<1.5	--/350[4]	--
12/31/01[6]	17.61	9.39	8.22	--	<0.5	<0.5	<0.5	<0.5	53	--
03/20/02[6]	17.61	8.56	9.05	--	<0.5	<0.5	<0.5	<0.5	300	--
06/10/02[6]	17.61	7.83	9.78	--	<0.5	<0.5	<0.5	<0.5	530	--
09/03/02[6]	17.61	7.07	10.54	--	<0.5	<0.5	<0.5	<0.5	620	--
12/06/02[6]	--[7]	--[7]	10.73	<50	<0.5	<0.5	<0.5	<0.5	760	--
03/04/03[6]	--[7]	--[7]	9.96	--	<0.5	<0.5	<0.5	<0.5	670	--
06/17/03[6]	--[7]	--[7]	10.52	--	<0.5	<0.5	<0.5	<0.5	950	--
09/22/03[8]	--[7]	--[7]	11.54	--	--	--	--	--	--	--

NOT MONITORED/SAMPLED

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-6										
01/07/88	--	--	--	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
03/10/88	16.53	8.18	8.35	--	--	--	--	--	--	--
06/24/88	16.53	4.23	12.30	<1,000	<1.0	<1.0	<1.0	<1.0	--	--
09/15/88	16.53	6.47	10.06	<50	<0.1	<1.0	<1.0	<1.0	--	--
12/09/88	16.53	6.68	9.85	<50	<0.2	<2.0	<2.0	<2.0	--	--
03/29/89	16.53	8.88	7.65	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
06/20/89	16.53	7.43	9.10	600	<0.5	<0.5	<0.5	0.9	--	--
09/19/89	16.53	7.15	9.38	<250	<0.5	<0.5	<0.5	<0.5	--	--
12/19/89	16.53	6.55	9.98	<250	<0.5	<0.5	<0.5	<0.5	--	--
03/20/90	16.53	7.64	8.89	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/23/90	16.53	7.55	8.98	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/08/90	16.53	6.13	10.40	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/10/91	16.53	--	--	--	--	--	--	--	--	--
10/22/91[1]	16.53	--	--	--	--	--	--	--	--	--
03/23/92[1]	16.53	9.32	7.21	--	--	--	--	--	--	--
09/09/92[1]	16.53	7.47	9.06	--	--	--	--	--	--	--
09/24/93	16.53	7.37	9.16	--	--	--	--	--	--	--
03/09/90	16.53	8.86	7.67	--	--	--	--	--	--	--
09/08/94	16.53	7.41	9.12	--	--	--	--	--	--	--
04/24/95	16.53	9.53	7.00	--	--	--	--	--	--	--
09/15/95	16.53	7.68	8.85	--	--	--	--	--	--	--
03/05/96	16.53	10.12	6.41	--	--	--	--	--	--	--
09/20/96	16.53	7.45	9.08	--	--	--	--	--	--	--
03/10/97	16.53	8.79	7.74	--	--	--	--	--	--	--
09/25/97	16.53	6.92	9.61	--	--	--	--	--	--	--
03/12/98	16.53	10.00	6.53	--	--	--	--	--	--	--
09/09/98	16.53	7.28	9.25	--	--	--	--	--	--	--
03/01/99	16.53	9.88	6.65	--	--	--	--	--	--	--
09/22/99	16.53	7.11	9.42	--	--	--	--	--	--	--
03/30/00	16.53	8.79	7.74	--	--	--	--	--	--	--
08/25/00	16.53	6.67	9.86	--	--	--	--	--	--	--
03/21/01	16.53	8.37	8.16	<50.0	<0.500	<0.500	<0.500	<0.500	176/160[4]	--
09/25/01	16.53	6.11	10.42	--	<0.50	<0.50	<0.50	<1.5	--/140[4]	--
12/31/01[6]	16.53	9.20	7.33	--	<0.5	<0.5	<0.5	<0.5	180	--
03/20/02[6]	16.53	8.61	7.92	--	<0.5	<0.5	<0.5	<0.5	380	--
06/10/02[6]	16.53	7.67	8.86	--	<0.5	<0.5	<0.5	<0.5	570	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-6 (cont)										
09/03/02[6]	16.53	5.82	10.71	--	<0.5	<0.5	<0.5	<0.5	440	--
12/06/02[6]	--[7]	--[7]	9.95	<50	<0.5	<0.5	<0.5	<0.5	550	--
03/04/03[6]	--[7]	--[7]	8.67	--	<0.5	<0.5	<0.5	<0.5	900	--
06/17/03[6]	--[7]	--[7]	9.20	--	<0.5	<0.5	<0.5	<0.5	1,300	--
09/22/03[8]	--[7]	--[7]	10.35	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED										
MW-7										
01/08/88	--	--	--	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
03/10/88	16.65	8.07	8.58	--	--	--	--	--	--	--
06/24/88	16.65	4.40	12.25	<1,000	<1.0	<1.0	<1.0	<1.0	--	--
09/15/88	16.65	6.36	10.29	<50	<0.1	<1.0	<1.0	<1.0	--	--
12/09/88	16.65	6.49	10.16	<50	<0.1	<1.0	<1.0	<1.0	--	--
01/09/89	16.65	6.91	9.74	--	--	--	--	--	--	--
03/29/89	16.65	8.55	8.10	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
06/21/89	16.65	7.30	9.35	780	<0.5	<0.5	<0.5	1.0	--	--
09/19/89	16.65	6.97	9.68	<250	<0.5	<0.5	<0.5	<0.5	--	--
12/19/89	16.65	6.52	10.13	<250	<0.5	<0.5	<0.5	<0.5	--	--
03/20/90	16.65	7.22	9.43	<50	<0.5	<0.5	<0.5	0.7	--	--
06/23/90	16.65	7.40	9.25	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/08/90	16.65	6.39	10.26	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/10/91	16.65	--	--	--	--	--	--	--	--	--
10/22/91[1]	16.65	--	--	--	--	--	--	--	--	--
03/23/92[1]	16.65	9.12	7.53	--	--	--	--	--	--	--
09/09/92[1]	16.65	7.23	9.42	--	--	--	--	--	--	--
09/24/93	16.65	7.10	9.55	--	--	--	--	--	--	--
03/09/94	16.65	8.54	8.11	--	--	--	--	--	--	--
09/08/94	16.65	7.55	9.10	--	--	--	--	--	--	--
04/24/95	16.65	9.54	7.11	--	--	--	--	--	--	--
09/15/95	16.65	7.44	9.21	--	--	--	--	--	--	--
03/05/96	16.65	9.58	7.07	--	--	--	--	--	--	--
09/20/96	16.65	8.39	8.26	--	--	--	--	--	--	--
03/10/97	16.65	8.50	8.15	--	--	--	--	--	--	--
09/25/97	16.65	7.46	9.19	--	--	--	--	--	--	--
03/12/98	16.65	8.92	7.73	--	--	--	--	--	--	--
09/09/98	16.65	7.59	9.06	--	--	--	--	--	--	--

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Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-7 (cont)											
03/01/99		16.65	8.65	8.00	--	--	--	--	--	--	--
09/22/99		16.65	5.98	10.67	--	--	--	--	--	--	--
03/30/00		16.65	8.79	7.86	--	--	--	--	--	--	--
08/25/00		16.65	7.36	9.29	--	--	--	--	--	--	--
03/21/01		16.65	8.17	8.48	<50.0	<0.500	<0.500	<0.500	<0.500	27.4/34[4]	<5.0
09/25/01		16.65	5.90	10.75	--	<0.50	<0.50	<0.50	<1.5	--/48[4]	--
12/31/01[6]		16.65	8.89	7.76	--	<0.5	<0.5	<0.5	<0.5	30	--
03/20/02[6]		16.65	8.29	8.36	--	<0.5	<0.5	<0.5	<0.5	95	--
06/10/02[6]		16.65	7.52	9.13	--	<0.5	<0.5	<0.5	<0.5	50	--
09/03/02[6]		16.65	6.77	9.88	--	<0.5	<0.5	<0.5	0.7	26	--
12/06/02[6]		16.65	6.42	10.23	<50	<0.5	<0.5	<0.5	<0.5	110	--
03/04/03[6]		16.65	8.13	8.52	--	<0.5	<0.5	<0.5	<0.5	160	--
06/17/03[6]		--[7]	--[7]	8.98	--	<0.5	<0.5	<0.5	<0.5	240	--
09/22/03[8]		--[7]	--[7]	10.00	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED											
MW-8											
01/07/88		--	--	--	<1,000	0.5	<0.5	0.5	<0.5	--	--
03/10/88		18.29	8.30	9.99	--	--	--	--	--	--	--
06/24/88		18.29	5.29	13.00	<1,000	<1.0	<1.0	<1.0	<1.0	--	--
09/15/88		18.29	6.55	11.74	<50	<0.1	<1.0	<1.0	<1.0	--	--
12/09/88		18.29	6.73	11.56	<50	<0.1	<1.0	<1.0	<1.0	--	--
01/09/89		18.29	7.18	11.11	--	--	--	--	--	--	--
03/29/89		18.29	8.83	9.46	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
06/22/89		18.29	7.50	10.79	<500	0.5	3.1	5.6	18	--	--
09/20/89		18.29	7.13	11.16	<250	<0.5	<0.5	<0.5	<0.5	--	--
12/19/89		18.29	6.65	11.64	<250	<0.5	<0.5	<0.5	<0.5	--	--
03/20/90		18.29	7.68	10.61	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/23/90		18.29	7.57	10.72	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/08/90		18.29	8.40	9.89	<50	0.7	<0.5	<0.5	<0.5	--	--
10/22/90		18.29	6.56	11.73	530	26	59	6.6	38	--	--
10/22/90	(D)	18.29	--	--	510	24	55	6.3	35	--	--
03/23/92		18.29	9.50	8.79	<50	0.8	<0.5	<0.5	<0.5	--	--
09/09/92		18.29	7.55	10.74	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/24/93		18.29	7.49	10.80	<50	2.0	2.0	0.5	3.0	--	--
03/09/94		18.29	8.88	9.41	<50	<0.5	<0.5	<0.5	<0.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
MW-8 (cont)										
09/08/94	18.29	INACCESSIBLE		--	--	--	--	--	--	--
04/24/94	18.29	INACCESSIBLE		--	--	--	--	--	--	--
09/15/95	18.29	INACCESSIBLE		--	--	--	--	--	--	--
03/05/96	18.29	INACCESSIBLE		--	--	--	--	--	--	--
09/20/96	18.29	INACCESSIBLE		--	--	--	--	--	--	--
03/10/97	18.29	INACCESSIBLE		--	--	--	--	--	--	--
09/25/97	18.29	INACCESSIBLE		--	--	--	--	--	--	--
03/12/98	18.29	INACCESSIBLE		--	--	--	--	--	--	--
09/09/98	18.29	INACCESSIBLE		--	--	--	--	--	--	--
03/01/99	18.29	INACCESSIBLE		--	--	--	--	--	--	--
09/22/99	18.29	INACCESSIBLE		--	--	--	--	--	--	--
03/30/00	18.29	INACCESSIBLE		--	--	--	--	--	--	--
08/25/00	18.29	UNABLE TO LOCATE		--	--	--	--	--	--	--
03/21/01	18.29	8.37	9.92	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<2.0[4]	--
09/25/01	18.29	6.09	12.20	--	<0.50	<0.50	<0.50	<1.5	--/<2[4]	--
12/31/01[6]	18.29	9.15	9.14	--	<0.5	0.6	<0.5	<0.5	<2	--
03/20/02[6]	18.29	8.60	9.69	--	<0.5	<0.5	<0.5	<0.5	<2	--
06/10/02[6]	18.29	7.75	10.54	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/03/02[6]	18.29	6.91	11.38	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/06/02[6]	18.29	6.69	11.60	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/04/03[6]	18.29	8.48	9.81	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/17/03[6]	18.29	7.88	10.41	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/22/03[8]	18.29	6.89	11.40	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED										
EQUIPMENT BLANK										
09/15/88	--	--	--	<50	<0.1	<1.0	<1.0	<1.0	--	--
12/09/88	--	--	--	<50	<0.2	<2.0	<2.0	2.0	--	--
12/20/88	--	--	--	<100	<0.1	<1.0	<1.0	<1.0	--	--
03/29/89	--	--	--	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
06/21/89	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--	--
12/19/89	--	--	--	<250	<0.5	<0.5	<0.5	<0.5	--	--
10/08/90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/10/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/22/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/92	--	--	--	<50	<0.5	<0.5	<0.5	0.8	--	--

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WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppm)
EQUIPMENT BLANK (cont)										
09/09/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
BAILER BLANK										
09/24/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/09/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
TRIP BLANK										
12/09/88	--	--	--	<50	<0.2	<1.0	<1.0	<1.0	--	--
12/20/88	--	--	--	<100	<0.2	<2.0	<2.0	<2.0	--	--
03/29/89	--	--	--	<1,000	<0.5	<0.5	<0.5	<0.5	--	--
06/20/89	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--	--
12/19/89	--	--	--	<250	<0.5	<0.5	<0.5	<0.5	--	--
03/20/90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/23/90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/08/90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/10/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/22/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/09/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/24/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/09/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/08/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/15/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/05/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/20/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/10/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/25/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/12/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/09/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/01/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
09/22/99	--	--	--	<50	<0.5	<0.5	<0.5	1.41	<5.0	--
03/30/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/25/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
03/21/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--

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TRIP BLANK (cont)										
09/25/01	--	--	--	--	<0.50	<0.50	<0.50	<1.5	<2.5	--
QA										
12/31/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/20/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
06/10/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/03/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
12/06/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/04/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
06/17/03[6]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/22/03[8]	--	--	--	--	--	--	--	--	--	--
10/11/03[9]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/29/04[9]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/04[6]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/20/04[6]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/21/05[6]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/30/05[6]	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	--

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Groundwater Monitoring Data and Analytical Results

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860 Petaluma Boulevard North

Petaluma, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to August 25, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether
TOG = Total Oil and Grease

(ppb) = Parts per billion
(ppm) = Parts per million
-- = Not Measured/Not Analyzed
(D) = Duplicate
QA = Quality Assurance/Trip Blank

1 Well not sampled per August 2, 1991 reduction letter.
2 Laboratory report indicates the TPH-Gasoline value was 160 ppb which was attributed to the presence of MTBE.
3 Laboratory report indicates unidentified hydrocarbons C6-C12.
4 MTBE by EPA Method 8260.
5 MTBE by EPA Method 8260 was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
6 BTEX and MTBE by EPA Method 8260.
7 TOC has been altered. Unable to determine GWE.
8 Monitored only, asked to restart the event, samples collected were not analyzed due to SCHSD-EHD correspondence that sampling could be discontinued.
9 BTEX by EPA Method 8260.
10 Monitored only, samples canceled at the request of Cambria Environmental Inc.

Table 2

Groundwater Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE		Cadmium (ppm)	Chromium (ppm)	Nickel (ppm)	Lead (ppm)	Zinc (ppm)	1,2-DCA (ppb)	EDB (ppb)	CTC (ppb)	1,1-DCE (ppb)	t-1,2-DCE (ppb)	PCE (ppb)	HVOCs (ppb)
MW-1													
12/20/88		--	--	--	--	--	2.6	<0.2	--	--	--	--	--
12/20/88	(D)	--	--	--	--	--	3.4	<0.1	--	--	--	--	--
NOT MONITORED/SAMPLED													
MW-2													
09/16/88		--	--	--	--	--	2.5	<0.1	--	--	--	--	--
DESTROYED (replaced by well MW-2A)													
MW-2A													
12/09/88		--	--	--	--	--	3.8	--	--	--	--	--	--
04/10/91		--	--	--	--	--	<0.5	--	<0.5	--	--	--	--
10/22/91		--	--	--	--	--	1.4	--	<0.5	--	--	--	--
03/23/92		--	--	--	--	--	<0.5	--	<0.5	--	--	--	--
09/09/92		--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	ND
09/24/93		--	--	--	--	--	0.9	--	<0.5	<0.5	--	<0.5	ND
03/09/94		--	--	--	--	--	1.0	--	<0.5	<0.5	--	<0.5	ND
03/24/95		--	--	--	--	--	0.8	--	<0.5	<0.5	<0.5	<0.5	ND
09/15/95		--	--	--	--	--	1.2	--	<1.0	<1.0	<1.0	<1.0	ND
03/05/96		--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	ND
09/20/96		--	--	--	--	--	0.6	--	<0.5	<0.5	<0.5	<0.5	ND
03/10/97		--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	ND
09/25/97		--	--	--	--	--	1.0	--	<0.5	<0.5	<0.5	<0.5	ND
03/01/99		--	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
09/22/99		--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	ND
03/30/00		--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	ND
03/21/01		<0.010	<0.0100	0.116	<0.0200	0.0368	<1.6	<1.0	<1.0	<1.0	<1.0	<0.60	ND[2]
NOT MONITORED/SAMPLED													
MW-3													
09/16/88		--	--	--	--	--	2.8	<0.1	--	--	--	--	--
12/09/88		--	--	--	--	--	2.1	<0.2	--	--	--	--	--
12/09/88	(D)	--	--	--	--	--	1.7	<0.2	--	--	--	--	--
04/10/91		--	--	--	--	--	3.1	--	0.5	--	--	--	--
10/22/91		--	--	--	--	--	2.2	--	<0.5	--	--	--	--
03/23/92		--	--	--	--	--	2.2	--	<0.5	--	--	--	--
09/09/92		--	--	--	--	--	1.7	--	<0.5	<0.5	<0.5	<0.5	ND

Table 2

Groundwater Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE	Cadmium (ppm)	Chromium (ppm)	Nickel (ppm)	Lead (ppm)	Zinc (ppm)	1,2-DCA (ppb)	EDB (ppb)	CTC (ppb)	1,1-DCE (ppb)	t-1,2-DCE (ppb)	PCE (ppb)	HVOCs (ppb)
MW-3 (cont)												
09/24/93	--	--	--	--	--	<0.5	--	<0.5	<0.5	--	<0.5	ND
03/09/94	--	--	--	--	--	2.0	--	<0.5	<0.5	--	<0.5	ND
09/08/94	--	--	--	--	--	1.2	--	<0.5	<0.5	--	<0.5	ND
03/24/95	--	--	--	--	--	2.4	--	<0.5	<0.5	<0.5	<0.5	ND
09/15/95	--	--	--	--	--	1.6	--	<1.0	<1.0	<1.0	<1.0	ND
NOT MONITORED/SAMPLED												
MW-4												
09/15/88	--	--	--	--	--	4.1	<0.1	--	--	--	--	--
12/09/88	--	--	--	--	--	8.4	<0.2	--	--	--	--	--
04/10/91	--	--	--	--	--	3.6	--	<0.5	--	--	--	--
10/22/91	--	--	--	--	--	3.8	--	<0.5	--	--	--	--
03/23/92	--	--	--	--	--	3.0	--	<0.5	--	--	--	--
09/09/92	--	--	--	--	--	2.4	<0.5	<0.5	<0.5	<0.5	<0.5	ND
09/24/93	--	--	--	--	--	2.0	--	<0.5	<0.5	--	<0.5	ND
03/09/94	--	--	--	--	--	3.0	--	<0.5	<0.5	--	<0.5	ND
09/08/94	--	--	--	--	--	1.3	--	<0.5	<0.5	--	<0.5	ND
03/24/95	--	--	--	--	--	1.6	--	<0.5	<0.5	<0.5	<0.5	ND
09/15/95	--	--	--	--	--	1.2	--	<1.0	<1.0	<1.0	<1.0	ND
03/21/01	<0.010	<0.0100	<0.0100	<0.0200	0.0159	<1.6	<1.0	<1.0	<1.0	<1.0	<0.60	ND[2]
NOT MONITORED/SAMPLED												
MW-5												
12/20/88	--	--	--	--	--	2.2	<0.2	--	--	--	--	--
04/10/91	--	--	--	--	--	8.1	--	<0.5	--	--	--	--
10/22/91	--	--	--	--	--	5.1	--	<0.5	--	--	--	--
03/23/92	--	--	--	--	--	2.4	--	<0.5	--	--	--	--
09/09/92	--	--	--	--	--	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	ND
09/24/93	--	--	--	--	--	3.0	--	<0.5	<0.5	--	<0.5	ND
03/09/94	--	--	--	--	--	2.0	--	<0.5	<0.5	--	<0.5	ND
09/08/94	--	--	--	--	--	1.3	--	<0.5	<0.5	--	<0.5	ND
MW-6												
03/24/95	--	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	ND
09/15/95	--	--	--	--	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	ND
09/15/88	--	--	--	--	--	2	<0.1	--	--	--	--	--

Table 2

Groundwater Analytical Results

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID/ DATE		Cadmium (ppm)	Chromium (ppm)	Nickel (ppm)	Lead (ppm)	Zinc (ppm)	1,2-DCA (ppb)	EDB (ppb)	CTC (ppb)	1,1-DCE (ppb)	t-1,2-DCE (ppb)	PCE (ppb)	HVOCs (ppb)
MW-6 (cont)													
12/09/88		--	--	--	--	--	<1.0	<0.2	--	--	--	--	--
NOT MONITORED/SAMPLED													
MW-7													
09/15/88		--	--	--	--	--	12	<0.1	--	--	--	--	--
12/09/88		--	--	--	--	--	16	<0.1	--	--	--	--	--
03/21/01		<0.010	<0.0100	<0.0100	<0.0200	0.0492	<1.6	<1.0	<1.0	<1.0	<1.0	<0.60	ND[2]
NOT MONITORED/SAMPLED													
MW-8													
09/15/88		--	--	--	--	--	14	<0.1	--	--	--	--	--
12/09/88		--	--	--	--	--	22	<0.1	--	--	--	--	--
10/08/90		--	--	--	--	--	12	--	<0.5	--	--	--	--
10/22/90		--	--	--	--	--	8.3	--	<0.5	--	--	--	--
10/22/90	(D)	--	--	--	--	--	8.5	--	<0.5	--	--	--	--
03/23/92		--	--	--	--	--	8.5	--	<0.5	--	--	--	--
09/09/92		--	--	--	--	--	5.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
09/24/93		--	--	--	--	--	7.0	--	<0.5	<0.5	--	<0.5	ND
03/09/94[1]		--	--	--	--	--	5.0	--	<0.5	<0.5	--	<0.5	ND
NOT MONITORED/SAMPLED													
RINSEATE													
09/15/88		--	--	--	--	--	<0.1	<0.1	--	--	--	--	--
12/09/88		--	--	--	--	--	<2.0	<0.2	--	--	--	--	--
TRIP BLANK													
12/09/88		--	--	--	--	--	<0.1	<0.1	--	--	--	--	--
12/20/88		--	--	--	--	--	<0.2	<0.2	--	--	--	--	--

Table 2

Groundwater Analytical Results

Former Chevron Service Station #9-9728
860 Petaluma Boulevard North
Petaluma, California

EXPLANATIONS:

Groundwater laboratory analytical results were compiled from reports prepared by Blaine Tech Services, Inc.

1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene Dibromide
CTC = Carbon Tetrachloride
1,1-DCE = 1,1-Dichloroethane
t-1,2-DCE = t-1,2 Dichloroethene
PCE = Tetrachloroethene
HVOCs = Halogenated Volatile Organic Compounds
ND = Not Detected
(ppm) = Parts per million
(ppb) = Parts per billion
-- = Not Analyzed
(D) = Duplicate

[1] Trichloroethene detected at 0.5 ppb; other HVOCs not detected at detection limits of 0.5 ppb to 1.0 ppb.

[2] All Volatile Organic Compounds (VOCs) were ND.

ANALYTICAL METHODS:

EPA 200 Series Methods for Cadmium, Chromium, Nickel, Lead, and Zinc
EPA Method 8010 for VOCs

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-5	03/21/01	--	<50	<2.0	<2.0	<2.0	3.8	<2.0	<2.0
	09/25/01	<500	<100	<2	<2	<2	<2	<2	<2
	12/31/01	--	<100	<2	<2	<2	<2	<2	<2
	03/20/02	--	<100	<2	<2	<2	<2	<2	<2
	06/10/02	--	<5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	09/03/02	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/06/02	--	5	1	<0.5	<0.5	<0.5	1	<0.5
	03/04/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/02/04	--	--	<0.5	--	--	--	--	--
	12/20/04	--	--	<0.5	--	--	--	--	--
	03/21/05	--	--	<0.5	--	--	--	--	--
	06/30/05	--	--	**<0.5**	--	--	--	--	--
MW-1	03/21/01	--	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	09/25/01	--	<100	280	<2	<2	<2	<2	<2
	12/31/01	--	<100	<2	<2	<2	<2	<2	<2
	03/20/02	--	<100	80	<2	<2	<2	<2	<2
	06/10/02	--	<5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
	09/03/02	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/06/02	--	<5	650	<0.5	<0.5	<0.5	<0.5	<0.5
	03/04/03	--	<5	1,700	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/03	--	28	2,000	<0.5	<0.5	<0.5	<0.5	<0.5
	NOT MONITORED/SAMPLED								
MW-2A	03/21/01	--	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	09/25/01	<500	<100	3	<2	<2	<2	<2	<2
	12/31/01	--	<100	<2	<2	<2	<2	<2	<2
	03/20/02	--	<100	3	<2	<2	<2	<2	<2
	06/10/02	--	<5	5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/03/02	--	<5	51	<0.5	<0.5	<0.5	<0.5	<0.5
	12/06/02	--	<5	82	<0.5	<0.5	<0.5	<0.5	<0.5
	03/04/03	--	<5	28	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/03	--	<5	10	<0.5	<0.5	<0.5	<0.5	<0.5
	NOT MONITORED/SAMPLED								
MW-3	03/21/01	--	<50	450[1]	<2.0	<2.0	<2.0	<2.0	<2.0

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3 (cont)	09/25/01	<500	<100	420	<2	<2	<2	<2	<2
	12/31/01	--	<100	360	<2	<2	<2	<2	<2
	03/20/02	--	<100	360	<2	<2	<2	<2	<2
	06/10/02	--	<5	260	<0.5	<0.5	<0.5	0.9	<0.5
	09/03/02	--	<5	130	<0.5	<0.5	<0.5	0.7	<0.5
	12/06/02	--	19	290	<0.5	<0.5	<0.5	0.9	<0.5
	03/04/03	--	120	230	<0.5	<0.5	<0.5	0.9	<0.5
	06/17/03	--	230	120	<0.5	<0.5	<0.5	0.9	<0.5
	10/11/03	--	--	--	--	--	--	0.7	--
	06/29/04	--	--	--	--	--	--	<0.5	--
	09/02/04[2]	--	--	--	--	--	--	--	--
	NOT MONITORED/SAMPLED								
MW-4	03/21/01	--	92	220	<2.0	<2.0	<2.0	<2.0	<2.0
	09/25/01	<500	<100	350	<2	<2	<2	<2	<2
	12/31/01	--	<100	53	<2	<2	<2	<2	<2
	03/20/02	--	<100	300	<2	<2	<2	<2	<2
	06/10/02	--	63	530	<0.5	<0.5	<0.5	<0.5	<0.5
	09/03/02	--	61	620	<0.5	<0.5	<0.5	0.6	<0.5
	12/06/02	--	79	760	<0.5	<0.5	<0.5	0.7	<0.5
	03/04/03	--	92	670	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/03	--	120	950	<0.5	<0.5	<0.5	0.5	<0.5
	NOT MONITORED/SAMPLED								
MW-6	03/21/01	--	<50	160	<2.0	<2.0	<2.0	<2.0	<2.0
	09/25/01	<500	<100	140	<2	<2	<2	<2	<2
	12/31/01	--	<100	180	<2	<2	<2	<2	<2
	03/20/02	--	<100	380	<2	<2	<2	<2	<2
	06/10/02	--	<5	570	<0.5	<0.5	<0.5	0.6	<0.5
	09/03/02	--	<5	440	<0.5	<0.5	<0.5	<0.5	<0.5
	12/06/02	--	<5	550	<0.5	<0.5	<0.5	<0.5	<0.5
	03/04/03	--	<5	900	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/03	--	28	1,300	<0.5	<0.5	<0.5	<0.5	<0.5
	NOT MONITORED/SAMPLED								
MW-7	03/21/01	--	<50	34	<2.0	<2.0	<2.0	<2.0	<2.0
	09/25/01	<500	<100	48	<2	<2	<2	<2	<2
	12/31/01	--	<100	30	<2	<2	<2	<2	<2
	03/20/02	--	<100	95	<2	<2	<2	<2	<2
	06/10/02	--	<5	50	<0.5	<0.5	<0.5	0.8	<0.5

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-7 (cont)	09/03/02	--	<5	26	<0.5	<0.5	<0.5	<0.5	<0.5
	12/06/02	--	<5	110	<0.5	<0.5	<0.5	1	<0.5
	03/04/03	--	<5	160	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/03	--	<5	240	<0.5	<0.5	<0.5	<0.5	<0.5
	NOT MONITORED/SAMPLED								
MW-8	03/21/01	--	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	09/25/01	<500	<100	<2	<2	<2	<2	<2	<2
	12/31/01	--	<100	<2	<2	<2	<2	<2	<2
	03/20/02	--	<100	<2	<2	<2	<2	<2	<2
	06/10/02	--	<5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
	09/03/02	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/06/02	--	<5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
	03/04/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	NOT MONITORED/SAMPLED								

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-9728

860 Petaluma Boulevard North

Petaluma, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = Ethylene dibromide/1,2-Dibromoethane

(ppb) = Parts per billion

-- = Not Analyzed

[1] Laboratory report indicates the sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.

[2] Samples canceled at the request of Cambria Environmental Inc.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

COUNTY of SONOMA
DEPARTMENT OF HEALTH SERVICES

Rita Scardaci, MPH – Director
Ruth Lincoln, PHN, MA – Assistant Director

Environmental Health Division
Walter L. Kruse - Director

August 2, 2006

ChevronTexaco
Attn: Dana Thurman
6001 Bollinger Canyon Road K2236
San Ramon, CA 94583

FFOP Inc.
Attn: Pete Singler
6950 Burnett Street
Sebastopol, CA 95472

Richard L. Daffurn Trust
c/o Joseph & Patricia Ghiggioli
436 Brazil Street
Sonoma, CA 95476-5722

Re: 860 Petaluma Boulevard North, Petaluma, CA
Site #00002241, SFBRWQCB #49-0033

Dear Responsible Parties:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release at the site is required.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

WALTER L. KRUSE, R.E.H.S.
Director of Environmental Health

Case Closure Summary

Leaking Underground Fuel Storage Tank Program

I. Agency Information — **Date: October 11, 2005**

Agency name:	Sonoma County Dept. Health Services	Address:	475 Aviation Blvd., Suite 220
City/State/Zip:	Santa Rosa, CA 95403	Phone:	(707) 565-6565
Responsible staff person:	Darcy Bering	Title:	Environmental Health Specialist

II. Case Information

Site facility name: Chevron #99728 (Former)

Site facility address: 860 Petaluma Boulevard N., Petaluma, CA 94952

RB LUSTIS # 49-0033	SWEEPS # NA	LOP #00002241	URF filing date: 10/11/05	Local # NA
Responsible party		Address		Phone number
ChevronTexaco Attn: Dana Thurman		6001 Bollinger Canyon Rd. K2236		925-842-8370
		San Ramon, CA 94583		
FFOP Inc. Attn: Pete Singler		6950 Burnett St., Sebastopol, CA 95472		
Richard L. ~~Daffron~~ Daffurn Trust et al		436 Brazil Street, Sonoma, CA 95476-5722		
Attn: Joseph & Patricia Ghiggioli				

Tank #	Size in gal.	Contents	Closed-in-place/removed?	Date
1	7,500	Leaded gasoline	Removed	10/16/86
2	7,500	Premium leaded gasoline	Removed	10/16/86
3	3,000	Super premium leaded gasoline	Removed	10/16/86
4	1,000	Waste oil	Removed	10/16/86

III. Release and Site Characterization Information

Cause and type of release: Unknown

Site characterization complete? Yes		Date approved by oversight agency: 6/14/05
MW installed? Yes	Number: 9	Proper screened interval: Most wells are, except MW2A, MW6 – MW8
Highest GW depth BGS: 2.88'	Lowest depth: 14.54'	Flow direction: Southeast to southwest

Most sensitive current use: Domestic and municipal water supply

Are drinking water wells affected? No	Aquifer name: Petaluma Valley (2-1)
Is surface water affected? No	Nearest SW name: Petaluma River approx 1,500' east of the site.

Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? Yes	Where is report(s) filed: Sonoma County Department of Health Services

Treatment and Disposal of Affected Material

Material	Amount (include units)	Action (treatment or disposal w/ destination)	Date
Tank	1 each	Unknown disposal. Chevron was unable to locate records.	1019/86
Piping	Approx. 360'	Unknown disposal. Chevron was unable to locate records.	10/1986
Free product	none		
Soil	200 cubic yards	Transported to Kettleman Hills, Kettleman City, CA	3/1988
Groundwater	Unknown	Purge & decon H2O to McKittrick Waste Mgmt., McKittrick, CA	1995-present
Barrels	None		

Case Closure Summary

III. Release and Site Characterization Information (continued) **Site Address: 860 Petaluma Blvd. N., Petaluma, CA 94952**

Maximum Documented Contaminant Concentrations — Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (gas)	1600	38	25	<.050	Xylene	110	.038	7.6	<.0005
TPH (diesel)	NS	NS	NS	NS	Ethylbenzene	<.05	NS	.710	<.0005
Benzene	11	5.1*	1.8	<.0005	Oil & grease	31	NS	NS	NS
Toluene	38	.067	3.2	<.0005	Lead	75	NS	NS	<.0200
1,2 DCA	NS	NS	.022	<.0005	MTBE	NS	NS	2.0**	2.0**

Comments (depth of remediation, etc.): NS = Not sampled. EDB in groundwater <.005 ppm

*4/28/87 result MW-5 construction. This detection is the only reported detection that significantly exceeds the ESL for benzene.

Soil 'before' is the highest reported. Soil 'after" is residual contamination. Groundwater "before" is the highest reported.

Approx 950 cubic yards were overexcavated in March 1988. 200 cubic yards were disposed of.

The remainder was determined to be clean and used as backfill. The excavation was approx. 30' x 45' x up to 15' deep.

Highest reported metals in groundwater in ppm, Nickel = .116, Zinc = .0492, Cadmium <.010, Chromium <.0100. Nickel was reported in one monitoring well (MW). Nickel was not reported in MW's located down gradient and cross gradient of the detection.

**The occurrence of MTBE at this site has been determined to be from an upgradient release at Shell, 900 Petaluma Blvd. N.

IV. Closure

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Yes

Site management requirements: None for this site. Should ownership of any of the monitoring wells be transferred to Shell for their investigation, access agreements must be maintained.

Should corrective action be reviewed if land use changes? No

Monitoring wells decommissioned? Yes	Number decommissioned: 1	Number retained: 8

List enforcement actions taken: None

List enforcement actions rescinded: NA

V. Local Agency Representative Data

Name: Walter L. Kruse	Title: Director of Environmental Health
Signature: Walter L. Kruse	Date: 10/11/05

VI. RWQCB Notification

Date submitted to RB: October 13, 2005	RB Response: Concurs with closure recommendation	
RWQCB staff name: John Jong (John Jong)	Title: WRCE	Date: 10/24/05

VII. Additional Comments, Data, etc.

NA = Not Applicable.

The Shell site may attempt to transfer ownership of some of the existing monitoring wells.

All wells not transferred will be destroyed under permit from this Department upon SFBRWQCB closure concurrence.

A domestic well located at 839 Petaluma Blvd. N., was sampled in September 2003 and there were no reported detections.

Revised 11/95

APPENDIX B

SOIL VAPOR SAMPLING FIELD FORMS

SOIL GAS SAMPLE FORM

DATE: 8/17/2021

PROJECT NAME: 890 Petaluma Blvd North

PROJECT NUMBER: 21308-00

Vapor Probe ID: SSV- 1

SAMPLE CANISTER ID: 5807-738

SAMPLE ID: SSV- 1

SAMPLER: CA

SAMPLE DEPTH: Sub-Slab

SHUT IN TEST

VACUUM ON SAMPLE TRAIN: -29 in/hg

START TIME 11:35 -29 in/hg

END TIME 11:45

PURGE/LEAK DETECTION

PURGE VOLUME: 100 ml

PURGE FLOW RATE: 150 ml/min

START TIME 11:54

END TIME 11:55

START VACUUM -29 in/hg

END VACUUM -29 in/hg

ISOPROPANOL CONCENTRATION IN SHROUD	TIME
45 PPM	11:54
50 PPM	11:55
PPM	
PPM	
PPM	
PPM	

SAMPLE COLLECTION

CANISTER START VACUUM -30 in/hg

CANISTER END VACUUM: -5 in/hg

SAMPLE START TIME: 11:59

SAMPLE END TIME: 12:05

ISOPROPANOL CONCENTRATION IN SHROUD	TIME
64 PPM	11:59
53 PPM	12:02
88 PPM	12:03
49 PPM	12:04
PPM	

SAMPLE FLOW RATE: 150 ml/min

6 min

SOIL GAS SAMPLE FORM

DATE: 8/17/2021

PROJECT NAME: 890 Petaluma Blvd North

PROJECT NUMBER: 21308-00

Vapor Probe ID: SSV- 2

SAMPLE CANISTER ID: 7519-867

SAMPLE ID: SSV- 2

SAMPLER: CA

SAMPLE DEPTH: Sub-Slab

SHUT IN TEST

VACUUM ON SAMPLE TRAIN: -29 in/hg

START TIME 12:22 -29 in/hg END TIME 12:32

PURGE/LEAK DETECTION

PURGE VOLUME: 150 ml

PURGE FLOW RATE: 150 ml/min

START TIME 12:36

END TIME 12:37

START VACUUM -29 in/hg

END VACUUM -28.5 in/hg

ISOPROPANOL CONCENTRATION IN SHROUD	TIME
43 PPM	12:36
95 PPM	12:37
PPM	
PPM	
PPM	
PPM	

SAMPLE COLLECTION

CANISTER START VACUUM -30 in/hg

CANISTER END VACUUM: -5 in/hg

SAMPLE START TIME: 12:39

SAMPLE END TIME: 1249

ISOPROPANOL CONCENTRATION IN SHROUD	TIME
70 PPM	12:39
48 PPM	12:40
62 PPM	12:42
73 PPM	12:44
55 PPM	12:46

SAMPLE FLOW RATE: < 150 ml/min

10 min

SOIL GAS SAMPLE FORM

DATE: 8/17/2021

SAMPLE CANISTER ID: 7525-873

PROJECT NAME: 890 Petaluma Blvd North

SAMPLE ID: SSV-3

PROJECT NUMBER: 21308-00

SAMPLER: CA

Vapor Probe ID: SSV-3

SAMPLE DEPTH: Sub-Slab

SHUT IN TEST		START TIME		END TIME
VACUUM ON SAMPLE TRAIN:	-28.5 in/hg	13:10	-28.5 in/hg	13:20

PURGE/LEAK DETECTION		START TIME	END TIME
PURGE VOLUME:	150 ml	13:22	13:23
PURGE FLOW RATE:	150 ml/min	START VACUUM	END VACUUM
		-28.5 in/hg	-28 in/hg

ISOPROPANOL CONCENTRATION IN SHROUD		TIME
44	PPM	13:22
66	PPM	13:23
	PPM	
	PPM	
	PPM	
	PPM	

SAMPLE COLLECTION

CANISTER START VACUUM -30 in/hg

CANISTER END VACUUM: -5 in/hg

SAMPLE START TIME: 13:24

SAMPLE END TIME: 13:30

ISOPROPANOL CONCENTRATION IN SHROUD		TIME
73	PPM	13:24
61	PPM	13:27
80	PPM	13:28
105	PPM	13:30
	PPM	
SAMPLE FLOW RATE: 150	ml/min	6 min

APPENDIX C

LABORATORY REPORT

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder:	2108883	**Amended:**	08/23/2021
		Revision:	1
Report Created for:	Baseline Environmental		
	5900 Hollis Street, Suite D Emeryville, CA 94608		
Project Contact:	Cem Atabek		
Project P.O.:			
Project:	21308-00; 890 Petaluma Blvd North		
Project Received:	08/17/2021		

Analytical Report reviewed & approved for release on 08/23/2021 by:

Christine Askari
Project Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Baseline Environmental
Project: 21308-00; 890 Petaluma Blvd North
WorkOrder: 2108883

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Baseline Environmental
Project: 21308-00; 890 Petaluma Blvd North
WorkOrder: 2108883

Analytical Qualifiers

J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
S	Surrogate recovery outside accepted recovery limits.
j1	See attached narrative

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.

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Case Narrative

Client: Baseline Environmental
Project: 21308-00; 890 Petaluma Blvd North

Work Order: 2108883
August 23, 2021

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

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Summary of Sample Pressure Report

Lab ID	Canister ID	Lab Prep Vacuum (psia)	Field Initial Vacuum (inHg)	Field Final Vacuum (inHg)	Lab Received Vacuum (psia)	Lab Received Vacuum (inHg)	Lab Final Vacuum / Pressure (psia)
2108883-001A	CAN#5807-738	0.26	-30	-5	12.47	-4.54	25.11
2108883-002A	CAN#7519-867	0.25	-30	-5	11.68	-6.15	23.32
2108883-003A	CAN#7525-873	0.25	-30	-5	11.86	-5.78	23.78

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Analytical Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µL/L

Leak Check Compound

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-1	**2108883-001A**	**SoilGas**	**08/17/2021 12:05**	**GC29 08192115.D**	**228233**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.47	**25.11**	**JEM**

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	0.040	2	08/19/2021 15:54

Surrogates	REC (%)	Qualifiers	Limits	
1,2-DCA-d4	211	S	70-130	08/19/2021 15:54

Analytical Comments: j1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-2	**2108883-002A**	**SoilGas**	**08/17/2021 12:49**	**GC29 08192117.D**	**228233**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.68	**23.32**	**JEM**

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	0.20	10	08/19/2021 17:17

Surrogates	REC (%)	Qualifiers	Limits	
1,2-DCA-d4	196	S	70-130	08/19/2021 17:17

Analytical Comments: j1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-3	**2108883-003A**	**SoilGas**	**08/17/2021 13:30**	**GC29 08192125.D**	**228233**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.86	**23.78**	**JEM**

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	**0.11**	0.080	4	08/19/2021 22:54

Surrogates	REC (%)	Qualifiers	Limits	
1,2-DCA-d4	190	S	70-130	08/19/2021 22:54

Analytical Comments: j1

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Analytical Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-1	2108883-001A	SoilGas	08/17/2021 12:05	GC29 08192115.D	228233

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.47	25.11	AK

Analytes	Result	RL	DF	Date Analyzed
Acetone	**880**	120	2	08/19/2021 15:54
Acrolein	ND	12	2	08/19/2021 15:54
Acrylonitrile	ND	2.2	2	08/19/2021 15:54
tert-Amyl methyl ether (TAME)	ND	4.2	2	08/19/2021 15:54
Benzene	**16**	3.2	2	08/19/2021 15:54
Benzyl chloride	ND	5.4	2	08/19/2021 15:54
Bromodichloromethane	ND	2.8	2	08/19/2021 15:54
Bromoform	ND	11	2	08/19/2021 15:54
Bromomethane	ND	3.8	2	08/19/2021 15:54
1,3-Butadiene	ND	2.2	2	08/19/2021 15:54
2-Butanone (MEK)	**180**	30	2	08/19/2021 15:54
t-Butyl alcohol (TBA)	ND	32	2	08/19/2021 15:54
Carbon Disulfide	**3.8**	3.2	2	08/19/2021 15:54
Carbon Tetrachloride	ND	2.6	2	08/19/2021 15:54
Chlorobenzene	ND	4.8	2	08/19/2021 15:54
Chloroethane	ND	2.6	2	08/19/2021 15:54
Chloroform	ND	5.0	2	08/19/2021 15:54
Chloromethane	ND	2.0	2	08/19/2021 15:54
Cyclohexane	ND	36	2	08/19/2021 15:54
Dibromochloromethane	ND	8.8	2	08/19/2021 15:54
1,2-Dibromo-3-chloropropane	ND	0.24	2	08/19/2021 15:54
1,2-Dibromoethane (EDB)	ND	0.16	2	08/19/2021 15:54
1,2-Dichlorobenzene	ND	6.0	2	08/19/2021 15:54
1,3-Dichlorobenzene	ND	6.0	2	08/19/2021 15:54
1,4-Dichlorobenzene	ND	6.0	2	08/19/2021 15:54
Dichlorodifluoromethane	ND	5.0	2	08/19/2021 15:54
1,1-Dichloroethane	ND	4.0	2	08/19/2021 15:54
1,2-Dichloroethane (1,2-DCA)	ND	4.0	2	08/19/2021 15:54
1,1-Dichloroethene	ND	4.0	2	08/19/2021 15:54
cis-1,2-Dichloroethene	ND	4.0	2	08/19/2021 15:54
trans-1,2-Dichloroethene	ND	4.0	2	08/19/2021 15:54
1,2-Dichloropropane	ND	4.8	2	08/19/2021 15:54
cis-1,3-Dichloropropene	ND	4.6	2	08/19/2021 15:54
trans-1,3-Dichloropropene	ND	4.6	2	08/19/2021 15:54

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Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-1	2108883-001A	SoilGas	08/17/2021 12:05	GC29 08192115.D	228233

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.47	25.11	AK

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	7.2	2	08/19/2021 15:54
Diisopropyl ether (DIPE)	ND	4.2	2	08/19/2021 15:54
1,4-Dioxane	ND	3.8	2	08/19/2021 15:54
Ethanol	**270**	190	2	08/19/2021 15:54
Ethyl acetate	**40**	3.8	2	08/19/2021 15:54
Ethyl tert-butyl ether (ETBE)	ND	4.2	2	08/19/2021 15:54
Ethylbenzene	ND	4.4	2	08/19/2021 15:54
4-Ethyltoluene	ND	5.0	2	08/19/2021 15:54
Freon 113	ND	7.8	2	08/19/2021 15:54
Heptane	ND	42	2	08/19/2021 15:54
Hexachlorobutadiene	ND	4.4	2	08/19/2021 15:54
Hexachloroethane	ND	9.8	2	08/19/2021 15:54
Hexane	ND	36	2	08/19/2021 15:54
2-Hexanone	**11**	4.2	2	08/19/2021 15:54
4-Methyl-2-pentanone (MIBK)	**9.4**	4.2	2	08/19/2021 15:54
Methyl-t-butyl ether (MTBE)	ND	3.8	2	08/19/2021 15:54
Methylene chloride	ND	18	2	08/19/2021 15:54
Methyl methacrylate	ND	4.2	2	08/19/2021 15:54
Naphthalene	ND	5.4	2	08/19/2021 15:54
Styrene	ND	4.4	2	08/19/2021 15:54
1,1,1,2-Tetrachloroethane	ND	7.0	2	08/19/2021 15:54
1,1,2,2-Tetrachloroethane	ND	1.4	2	08/19/2021 15:54
Tetrachloroethene	ND	7.0	2	08/19/2021 15:54
Tetrahydrofuran	**46**	6.0	2	08/19/2021 15:54
Toluene	**13**	3.8	2	08/19/2021 15:54
1,2,4-Trichlorobenzene	ND	7.6	2	08/19/2021 15:54
1,1,1-Trichloroethane	ND	5.6	2	08/19/2021 15:54
1,1,2-Trichloroethane	ND	5.6	2	08/19/2021 15:54
Trichloroethene	ND	5.6	2	08/19/2021 15:54
1,2,3-Trichloropropane	ND	6.2	2	08/19/2021 15:54
Trichlorofluoromethane	ND	5.8	2	08/19/2021 15:54
1,2,4-Trimethylbenzene	ND	5.0	2	08/19/2021 15:54
1,3,5-Trimethylbenzene	ND	5.0	2	08/19/2021 15:54
Vinyl Acetate	ND	36	2	08/19/2021 15:54

(Cont.)

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Analytical Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-1	**2108883-001A**	**SoilGas**	**08/17/2021 12:05**	**GC29 08192115.D**	**228233**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.47	**25.11**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	**0.53**	0.52	2	08/19/2021 15:54
m,p-Xylene	ND	8.8	2	08/19/2021 15:54
o-Xylene	ND	4.4	2	08/19/2021 15:54
Xylenes, Total	ND	4.4	2	08/19/2021 15:54
Surrogates	**REC (%)**	**Limits**		
1,2-DCA-d4	106	70-130		08/19/2021 15:54
Toluene-d8	92	70-130		08/19/2021 15:54
4-BFB	95	70-130		08/19/2021 15:54

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Analytical Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-2	2108883-002A	SoilGas	08/17/2021 12:49	GC29 08192117.D	228233

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.68	23.32	AK

Analytes	Result	RL	DF	Date Analyzed
Acetone	**2300**	600	10	08/19/2021 17:17
Acrolein	ND	58	10	08/19/2021 17:17
Acrylonitrile	ND	11	10	08/19/2021 17:17
tert-Amyl methyl ether (TAME)	ND	21	10	08/19/2021 17:17
Benzene	**30**	16	10	08/19/2021 17:17
Benzyl chloride	ND	27	10	08/19/2021 17:17
Bromodichloromethane	ND	14	10	08/19/2021 17:17
Bromoform	ND	53	10	08/19/2021 17:17
Bromomethane	ND	19	10	08/19/2021 17:17
1,3-Butadiene	ND	11	10	08/19/2021 17:17
2-Butanone (MEK)	**480**	150	10	08/19/2021 17:17
t-Butyl alcohol (TBA)	ND	160	10	08/19/2021 17:17
Carbon Disulfide	ND	16	10	08/19/2021 17:17
Carbon Tetrachloride	ND	13	10	08/19/2021 17:17
Chlorobenzene	ND	24	10	08/19/2021 17:17
Chloroethane	ND	13	10	08/19/2021 17:17
Chloroform	ND	25	10	08/19/2021 17:17
Chloromethane	ND	10	10	08/19/2021 17:17
Cyclohexane	ND	180	10	08/19/2021 17:17
Dibromochloromethane	ND	44	10	08/19/2021 17:17
1,2-Dibromo-3-chloropropane	ND	1.2	10	08/19/2021 17:17
1,2-Dibromoethane (EDB)	ND	0.78	10	08/19/2021 17:17
1,2-Dichlorobenzene	ND	30	10	08/19/2021 17:17
1,3-Dichlorobenzene	ND	30	10	08/19/2021 17:17
1,4-Dichlorobenzene	**55**	30	10	08/19/2021 17:17
Dichlorodifluoromethane	ND	25	10	08/19/2021 17:17
1,1-Dichloroethane	ND	20	10	08/19/2021 17:17
1,2-Dichloroethane (1,2-DCA)	ND	20	10	08/19/2021 17:17
1,1-Dichloroethene	ND	20	10	08/19/2021 17:17
cis-1,2-Dichloroethene	ND	20	10	08/19/2021 17:17
trans-1,2-Dichloroethene	ND	20	10	08/19/2021 17:17
1,2-Dichloropropane	ND	24	10	08/19/2021 17:17
cis-1,3-Dichloropropene	ND	23	10	08/19/2021 17:17
trans-1,3-Dichloropropene	ND	23	10	08/19/2021 17:17

(Cont.)

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Analytical Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-2	2108883-002A	SoilGas	08/17/2021 12:49	GC29 08192117.D	228233

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.68	23.32	AK

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	36	10	08/19/2021 17:17
Diisopropyl ether (DIPE)	ND	21	10	08/19/2021 17:17
1,4-Dioxane	ND	19	10	08/19/2021 17:17
Ethanol	**1300**	950	10	08/19/2021 17:17
Ethyl acetate	**140**	19	10	08/19/2021 17:17
Ethyl tert-butyl ether (ETBE)	ND	21	10	08/19/2021 17:17
Ethylbenzene	ND	22	10	08/19/2021 17:17
4-Ethyltoluene	ND	25	10	08/19/2021 17:17
Freon 113	ND	39	10	08/19/2021 17:17
Heptane	ND	210	10	08/19/2021 17:17
Hexachlorobutadiene	ND	22	10	08/19/2021 17:17
Hexachloroethane	ND	49	10	08/19/2021 17:17
Hexane	ND	180	10	08/19/2021 17:17
2-Hexanone	**26**	21	10	08/19/2021 17:17
4-Methyl-2-pentanone (MIBK)	**35**	21	10	08/19/2021 17:17
Methyl-t-butyl ether (MTBE)	ND	19	10	08/19/2021 17:17
Methylene chloride	ND	88	10	08/19/2021 17:17
Methyl methacrylate	ND	21	10	08/19/2021 17:17
Naphthalene	ND	27	10	08/19/2021 17:17
Styrene	ND	22	10	08/19/2021 17:17
1,1,1,2-Tetrachloroethane	ND	35	10	08/19/2021 17:17
1,1,2,2-Tetrachloroethane	ND	7.0	10	08/19/2021 17:17
Tetrachloroethene	ND	35	10	08/19/2021 17:17
Tetrahydrofuran	**140**	30	10	08/19/2021 17:17
Toluene	**25**	19	10	08/19/2021 17:17
1,2,4-Trichlorobenzene	**190**	38	10	08/19/2021 17:17
1,1,1-Trichloroethane	ND	28	10	08/19/2021 17:17
1,1,2-Trichloroethane	ND	28	10	08/19/2021 17:17
Trichloroethene	ND	28	10	08/19/2021 17:17
1,2,3-Trichloropropane	ND	31	10	08/19/2021 17:17
Trichlorofluoromethane	ND	29	10	08/19/2021 17:17
1,2,4-Trimethylbenzene	ND	25	10	08/19/2021 17:17
1,3,5-Trimethylbenzene	ND	25	10	08/19/2021 17:17
Vinyl Acetate	ND	180	10	08/19/2021 17:17

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Analytical Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-2	**2108883-002A**	**SoilGas**	**08/17/2021 12:49**	**GC29 08192117.D**	**228233**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.68	**23.32**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	2.6	10	08/19/2021 17:17
m,p-Xylene	ND	44	10	08/19/2021 17:17
o-Xylene	ND	22	10	08/19/2021 17:17
Xylenes, Total	ND	22	10	08/19/2021 17:17
Surrogates	**REC (%)**	**Limits**		
1,2-DCA-d4	98	70-130		08/19/2021 17:17
Toluene-d8	94	70-130		08/19/2021 17:17
4-BFB	94	70-130		08/19/2021 17:17

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Analytical Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-3	2108883-003A	SoilGas	08/17/2021 13:30	GC29 08192125.D	228233

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.85	23.78	AK

Analytes	Result	RL	DF	Date Analyzed
Acetone	**620**	240	4	08/19/2021 22:54
Acrolein	ND	23	4	08/19/2021 22:54
Acrylonitrile	ND	4.4	4	08/19/2021 22:54
tert-Amyl methyl ether (TAME)	ND	8.4	4	08/19/2021 22:54
Benzene	**14**	6.4	4	08/19/2021 22:54
Benzyl chloride	ND	11	4	08/19/2021 22:54
Bromodichloromethane	ND	5.6	4	08/19/2021 22:54
Bromoform	ND	21	4	08/19/2021 22:54
Bromomethane	ND	7.6	4	08/19/2021 22:54
1,3-Butadiene	ND	4.4	4	08/19/2021 22:54
2-Butanone (MEK)	**90**	60	4	08/19/2021 22:54
t-Butyl alcohol (TBA)	ND	64	4	08/19/2021 22:54
Carbon Disulfide	ND	6.4	4	08/19/2021 22:54
Carbon Tetrachloride	ND	5.2	4	08/19/2021 22:54
Chlorobenzene	ND	9.6	4	08/19/2021 22:54
Chloroethane	ND	5.2	4	08/19/2021 22:54
Chloroform	ND	10	4	08/19/2021 22:54
Chloromethane	ND	4.0	4	08/19/2021 22:54
Cyclohexane	ND	72	4	08/19/2021 22:54
Dibromochloromethane	ND	18	4	08/19/2021 22:54
1,2-Dibromo-3-chloropropane	ND	0.48	4	08/19/2021 22:54
1,2-Dibromoethane (EDB)	ND	0.31	4	08/19/2021 22:54
1,2-Dichlorobenzene	ND	12	4	08/19/2021 22:54
1,3-Dichlorobenzene	ND	12	4	08/19/2021 22:54
1,4-Dichlorobenzene	ND	12	4	08/19/2021 22:54
Dichlorodifluoromethane	ND	10	4	08/19/2021 22:54
1,1-Dichloroethane	ND	8.0	4	08/19/2021 22:54
1,2-Dichloroethane (1,2-DCA)	ND	8.0	4	08/19/2021 22:54
1,1-Dichloroethene	ND	8.0	4	08/19/2021 22:54
cis-1,2-Dichloroethene	ND	8.0	4	08/19/2021 22:54
trans-1,2-Dichloroethene	ND	8.0	4	08/19/2021 22:54
1,2-Dichloropropane	ND	9.6	4	08/19/2021 22:54
cis-1,3-Dichloropropene	ND	9.2	4	08/19/2021 22:54
trans-1,3-Dichloropropene	ND	9.2	4	08/19/2021 22:54

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Analytical Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-3	2108883-003A	SoilGas	08/17/2021 13:30	GC29 08192125.D	228233

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.85	23.78	AK

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	14	4	08/19/2021 22:54
Diisopropyl ether (DIPE)	ND	8.4	4	08/19/2021 22:54
1,4-Dioxane	ND	7.6	4	08/19/2021 22:54
Ethanol	**690**	380	4	08/19/2021 22:54
Ethyl acetate	**23**	7.6	4	08/19/2021 22:54
Ethyl tert-butyl ether (ETBE)	ND	8.4	4	08/19/2021 22:54
Ethylbenzene	ND	8.8	4	08/19/2021 22:54
4-Ethyltoluene	ND	10	4	08/19/2021 22:54
Freon 113	ND	16	4	08/19/2021 22:54
Heptane	ND	84	4	08/19/2021 22:54
Hexachlorobutadiene	ND	8.8	4	08/19/2021 22:54
Hexachloroethane	ND	20	4	08/19/2021 22:54
Hexane	ND	72	4	08/19/2021 22:54
2-Hexanone	ND	8.4	4	08/19/2021 22:54
4-Methyl-2-pentanone (MIBK)	**9.2**	8.4	4	08/19/2021 22:54
Methyl-t-butyl ether (MTBE)	ND	7.6	4	08/19/2021 22:54
Methylene chloride	ND	35	4	08/19/2021 22:54
Methyl methacrylate	ND	8.4	4	08/19/2021 22:54
Naphthalene	ND	11	4	08/19/2021 22:54
Styrene	ND	8.8	4	08/19/2021 22:54
1,1,1,2-Tetrachloroethane	ND	14	4	08/19/2021 22:54
1,1,2,2-Tetrachloroethane	ND	2.8	4	08/19/2021 22:54
Tetrachloroethene	ND	14	4	08/19/2021 22:54
Tetrahydrofuran	**42**	12	4	08/19/2021 22:54
Toluene	**16**	7.6	4	08/19/2021 22:54
1,2,4-Trichlorobenzene	ND	15	4	08/19/2021 22:54
1,1,1-Trichloroethane	ND	11	4	08/19/2021 22:54
1,1,2-Trichloroethane	ND	11	4	08/19/2021 22:54
Trichloroethene	ND	11	4	08/19/2021 22:54
1,2,3-Trichloropropane	ND	12	4	08/19/2021 22:54
Trichlorofluoromethane	ND	12	4	08/19/2021 22:54
1,2,4-Trimethylbenzene	ND	10	4	08/19/2021 22:54
1,3,5-Trimethylbenzene	ND	10	4	08/19/2021 22:54
Vinyl Acetate	ND	72	4	08/19/2021 22:54

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Analytical Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Received:	08/17/2021 17:25	**Extraction Method:**	TO15
Date Prepared:	08/19/2021	**Analytical Method:**	TO15
Project:	21308-00; 890 Petaluma Blvd North	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SSV-3	**2108883-003A**	**SoilGas**	**08/17/2021 13:30**	**GC29 08192125.D**	**228233**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.85	**23.78**	**AK**

Analytes	Result	RL	DF	Date Analyzed
Vinyl Chloride	ND	1.0	4	08/19/2021 22:54
m,p-Xylene	ND	18	4	08/19/2021 22:54
o-Xylene	ND	8.8	4	08/19/2021 22:54
Xylenes, Total	ND	8.8	4	08/19/2021 22:54
Surrogates	**REC (%)**	**Limits**		
1,2-DCA-d4	95	70-130		08/19/2021 22:54
Toluene-d8	95	70-130		08/19/2021 22:54
4-BFB	93	70-130		08/19/2021 22:54

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Quality Control Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Prepared:	08/19/2021	**BatchID:**	228233
Date Analyzed:	08/19/2021	**Extraction Method:**	TO15
Instrument:	GC29	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	21308-00; 890 Petaluma Blvd North	**Sample ID:**	MB/LCS/LCSD-228233

QC Summary Report for TO15

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	4.30	60.0	-	-	-
Acrolein	ND	1.10	5.80	-	-	-
Acrylonitrile	ND	0.660	1.10	-	-	-
tert-Amyl methyl ether (TAME)	ND	1.30	2.10	-	-	-
Benzene	ND	0.790	1.60	-	-	-
Benzyl chloride	ND	1.70	2.70	-	-	-
Bromodichloromethane	ND	0.130	1.40	-	-	-
Bromoform	ND	1.10	5.30	-	-	-
Bromomethane	ND	0.410	1.90	-	-	-
1,3-Butadiene	ND	0.980	1.10	-	-	-
2-Butanone (MEK)	ND	2.00	15.0	-	-	-
t-Butyl alcohol (TBA)	ND	1.90	16.0	-	-	-
Carbon Disulfide	ND	1.10	1.60	-	-	-
Carbon Tetrachloride	ND	0.190	1.30	-	-	-
Chlorobenzene	ND	0.590	2.40	-	-	-
Chloroethane	ND	0.350	1.30	-	-	-
Chloroform	ND	0.580	2.50	-	-	-
Chloromethane	ND	0.520	1.00	-	-	-
Cyclohexane	ND	1.60	18.0	-	-	-
Dibromochloromethane	ND	1.10	4.40	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.0740	0.120	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0250	0.0780	-	-	-
1,2-Dichlorobenzene	ND	0.950	3.00	-	-	-
1,3-Dichlorobenzene	ND	0.940	3.00	-	-	-
1,4-Dichlorobenzene	ND	0.970	3.00	-	-	-
Dichlorodifluoromethane	ND	0.560	2.50	-	-	-
1,1-Dichloroethane	ND	0.500	2.00	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.580	2.00	-	-	-
1,1-Dichloroethene	ND	0.400	2.00	-	-	-
cis-1,2-Dichloroethene	ND	0.430	2.00	-	-	-
trans-1,2-Dichloroethene	ND	0.450	2.00	-	-	-
1,2-Dichloropropane	ND	0.590	2.40	-	-	-
cis-1,3-Dichloropropene	ND	0.710	2.30	-	-	-
trans-1,3-Dichloropropene	ND	0.860	2.30	-	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.80	3.60	-	-	-
Diisopropyl ether (DIPE)	ND	0.550	2.10	-	-	-
1,4-Dioxane	ND	0.710	1.90	-	-	-
Ethanol	8.35,J	3.80	95.0	-	-	-

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Quality Control Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Prepared:	08/19/2021	**BatchID:**	228233
Date Analyzed:	08/19/2021	**Extraction Method:**	TO15
Instrument:	GC29	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	21308-00; 890 Petaluma Blvd North	**Sample ID:**	MB/LCS/LCSD-228233

QC Summary Report for TO15

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Ethyl acetate	ND	0.630	1.90	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.680	2.10	-	-	-
Ethylbenzene	ND	0.510	2.20	-	-	-
4-Ethyltoluene	ND	0.610	2.50	-	-	-
Freon 113	ND	1.00	3.90	-	-	-
Heptane	ND	2.40	21.0	-	-	-
Hexachlorobutadiene	ND	0.380	2.20	-	-	-
Hexachloroethane	ND	2.70	4.90	-	-	-
Hexane	ND	2.20	18.0	-	-	-
2-Hexanone	ND	1.60	2.10	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.940	2.10	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.430	1.90	-	-	-
Methylene chloride	ND	0.820	8.80	-	-	-
Methyl methacrylate	ND	0.650	2.10	-	-	-
Naphthalene	ND	1.90	2.70	-	-	-
Styrene	ND	0.620	2.20	-	-	-
1,1,1,2-Tetrachloroethane	ND	1.20	3.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.100	0.700	-	-	-
Tetrachloroethene	ND	1.10	3.50	-	-	-
Tetrahydrofuran	ND	0.820	3.00	-	-	-
Toluene	ND	0.890	1.90	-	-	-
1,2,4-Trichlorobenzene	ND	2.70	3.80	-	-	-
1,1,1-Trichloroethane	ND	0.710	2.80	-	-	-
1,1,2-Trichloroethane	ND	0.850	2.80	-	-	-
Trichloroethene	ND	0.690	2.80	-	-	-
1,2,3-Trichloropropane	ND	0.890	3.10	-	-	-
Trichlorofluoromethane	ND	0.780	2.90	-	-	-
1,2,4-Trimethylbenzene	ND	1.20	2.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.730	2.50	-	-	-
Vinyl Acetate	ND	1.10	18.0	-	-	-
Vinyl Chloride	ND	0.140	0.260	-	-	-
m,p-Xylene	ND	1.10	4.40	-	-	-
o-Xylene	ND	0.390	2.20	-	-	-

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Quality Control Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Prepared:	08/19/2021	**BatchID:**	228233
Date Analyzed:	08/19/2021	**Extraction Method:**	TO15
Instrument:	GC29	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	21308-00; 890 Petaluma Blvd North	**Sample ID:**	MB/LCS/LCSD-228233

QC Summary Report for TO15

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
1,2-DCA-d4	999			1000	100	70-130
Toluene-d8	968			1000	97	70-130
4-BFB	943			1000	94	70-130

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Quality Control Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Prepared:	08/19/2021	**BatchID:**	228233
Date Analyzed:	08/19/2021	**Extraction Method:**	TO15
Instrument:	GC29	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	21308-00; 890 Petaluma Blvd North	**Sample ID:**	MB/LCS/LCSD-228233

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	13.3	13.9	12	111	116	60-140	4.27	25
Acrolein	11.0	11.4	11.6	95	98	60-140	2.69	25
Acrylonitrile	10.8	11.5	11	98	104	60-140	6.29	25
tert-Amyl methyl ether (TAME)	18.2	18.8	21	87	89	60-140	2.96	25
Benzene	15.6	16.0	16	97	100	60-140	3.11	25
Benzyl chloride	18.0	19.3	26.6	68	73	60-140	7.05	25
Bromodichloromethane	29.6	31.0	35	85	89	60-140	4.58	25
Bromoform	36.5	39.3	52.6	69	75	60-140	7.38	25
Bromomethane	17.1	18.3	19.6	87	94	60-140	7.01	25
1,3-Butadiene	13.9	14.7	11	126	134	60-140	5.56	25
2-Butanone (MEK)	14.3	14.6	15	95	98	60-140	2.40	25
t-Butyl alcohol (TBA)	13.9	14.7	15.6	89	94	60-140	6.12	25
Carbon Disulfide	15.6	16.2	16	98	101	60-140	3.75	25
Carbon Tetrachloride	26.5	28.1	32	83	88	60-140	5.77	25
Chlorobenzene	21.5	22.3	23.6	91	95	60-140	3.52	25
Chloroethane	13.5	14.0	13.6	100	103	60-140	3.75	25
Chloroform	22.1	22.8	24.6	90	93	60-140	3.26	25
Chloromethane	9.40	9.63	10.6	89	91	60-140	2.34	25
Cyclohexane	17.6	18.1	17.6	100	103	60-140	2.74	25
Dibromochloromethane	34.0	36.2	43.6	78	83	60-140	6.22	25
1,2-Dibromo-3-chloropropane	57.5	60.3	49	117	123	60-140	4.80	25
1,2-Dibromoethane (EDB)	39.4	41.1	39	101	105	60-140	4.13	25
1,2-Dichlorobenzene	31.0	32.0	30.6	101	105	60-140	3.47	25
1,3-Dichlorobenzene	27.5	28.5	30.6	90	93	60-140	3.53	25
1,4-Dichlorobenzene	30.6	31.7	30.6	100	104	60-140	3.59	25
Dichlorodifluoromethane	22.2	22.4	25	89	90	60-140	0.834	25
1,1-Dichloroethane	19.3	19.9	20.6	94	96	60-140	2.89	25
1,2-Dichloroethane (1,2-DCA)	19.3	20.0	20.6	94	97	60-140	3.28	25
1,1-Dichloroethene	20.2	20.8	20	101	104	60-140	3.10	25
cis-1,2-Dichloroethene	18.3	18.8	20	91	94	60-140	3.14	25
trans-1,2-Dichloroethene	18.5	19.2	20	93	96	60-140	3.55	25
1,2-Dichloropropane	23.4	24.1	23.6	99	102	60-140	2.92	25
cis-1,3-Dichloropropene	19.8	21.1	23	86	92	60-140	6.60	25
trans-1,3-Dichloropropene	19.0	20.0	23	83	87	60-140	4.80	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	32.1	33.6	35.6	90	94	60-140	4.54	25
Diisopropyl ether (DIPE)	20.6	21.2	21	98	101	60-140	2.78	25
1,4-Dioxane	17.1	17.7	18.6	92	95	60-140	3.48	25
Ethanol	10.6	10.6	9.6	110	111	60-140	0.758	25

(Cont.)

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Quality Control Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Prepared:	08/19/2021	**BatchID:**	228233
Date Analyzed:	08/19/2021	**Extraction Method:**	TO15
Instrument:	GC29	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	21308-00; 890 Petaluma Blvd North	**Sample ID:**	MB/LCS/LCSD-228233

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ethyl acetate	18.8	19.6	18.6	101	105	60-140	4.28	25
Ethyl tert-butyl ether (ETBE)	19.5	20.1	21	93	96	60-140	3.07	25
Ethylbenzene	19.8	20.5	22	90	93	60-140	3.55	25
4-Ethyltoluene	23.1	24.1	25	92	96	60-140	4.04	25
Freon 113	36.3	37.3	39	93	96	60-140	2.71	25
Heptane	20.3	21.1	21	97	100	60-140	3.45	25
Hexachlorobutadiene	65.4	67.6	54	121	125	60-140	3.35	25
Hexachloroethane	29.7	32.2	49.2	60	66	60-140	8.33	25
Hexane	18.6	18.8	18	103	105	60-140	1.57	25
2-Hexanone	22.3	23.5	21	106	112	60-140	5.07	25
4-Methyl-2-pentanone (MIBK)	20.6	21.2	21	98	101	60-140	2.90	25
Methyl-t-butyl ether (MTBE)	16.5	17.1	18.6	89	92	60-140	3.18	25
Methylene chloride	15.5	16.0	17.6	88	91	60-140	3.11	25
Methyl methacrylate	16.6	17.5	20.8	80	84	60-140	5.28	25
Naphthalene	32.2	33.4	26.5	122	126	60-140	3.56	25
Styrene	20.0	20.9	21.6	93	97	60-140	4.22	25
1,1,1,2-Tetrachloroethane	30.4	32.2	35	87	92	60-140	5.62	25
1,1,2,2-Tetrachloroethane	30.6	31.9	35	87	91	60-140	4.00	25
Tetrachloroethene	33.3	34.6	34.4	97	101	60-140	3.82	25
Tetrahydrofuran	15.7	16.2	15	105	108	60-140	3.01	25
Toluene	16.2	16.7	19	85	88	60-140	2.92	25
1,2,4-Trichlorobenzene	46.6	48.2	37.6	124	128	60-140	3.37	25
1,1,1-Trichloroethane	23.6	24.5	27.6	85	89	60-140	3.73	25
1,1,2-Trichloroethane	27.1	28.2	27.6	98	102	60-140	4.03	25
Trichloroethene	25.9	26.7	27.6	94	97	60-140	3.16	25
1,2,3-Trichloropropane	28.1	28.9	30.64	92	94	60-140	2.74	25
Trichlorofluoromethane	28.9	30.0	28.6	101	105	60-140	3.62	25
1,2,4-Trimethylbenzene	22.4	23.3	25	90	93	60-140	3.81	25
1,3,5-Trimethylbenzene	22.3	23.4	25	89	93	60-140	4.58	25
Vinyl Acetate	15.4	16.6	18	85	92	60-140	8.08	25
Vinyl Chloride	13.7	13.9	13	105	107	60-140	1.55	25
m,p-Xylene	39.7	41.5	44	90	94	60-140	4.32	25
o-Xylene	20.6	21.5	22	94	98	60-140	4.50	25

(Cont.)

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Quality Control Report

Client:	Baseline Environmental	**WorkOrder:**	2108883
Date Prepared:	08/19/2021	**BatchID:**	228233
Date Analyzed:	08/19/2021	**Extraction Method:**	TO15
Instrument:	GC29	**Analytical Method:**	TO15
Matrix:	SoilGas	**Unit:**	µg/m³
Project:	21308-00; 890 Petaluma Blvd North	**Sample ID:**	MB/LCS/LCSD-228233

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
1,2-DCA-d4	1010	997	1000	101	100	70-130	0.984	25
Toluene-d8	963	964	1000	96	96	70-130	0.124	25
4-BFB	951	951	1000	95	95	70-130	0.0359	25

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 2108883 **ClientCode: BLEE**

☐ WaterTrax ☐ WriteOn ☐ EDF ☑ EQuIS ☑ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☑ Detection Summary ☐ Excel

Report to:
Cem Atabek
Baseline Environmental
5900 Hollis Street, Suite D
Emeryville, CA 94608
(510) 588-7022 FAX: (510) 420-1707

Email: cem@baseline-env.com
cc/3rd Party:
PO:
Project: 21308-00; 890 Petaluma Blvd North

Bill to:
Accounts Payable
Baseline Environmental
5900 Hollis Street, Ste. D
Emeryville, CA 94608

Requested TAT: **5 days;**

Date Received: **08/17/2021**
Date Logged: **08/17/2021**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2108883-001	SSV-1	SoilGas	8/17/2021 12:05	☐	A	A	A									
2108883-002	SSV-2	SoilGas	8/17/2021 12:49	☐	A	A	A									
2108883-003	SSV-3	SoilGas	8/17/2021 13:30	☐	A	A	A									

Test Legend:

1	TO15_Scan-SIM_SOIL(UG/M3)	2	TO15-LC_SOIL(UG/M3)	3	TO15-LC_SOIL(UL/L) [N]	4	
5		6		7		8	
9		10		11		12	

Project Manager: Angela Rydelius **Prepared by: Valerie Alfaro**

The following SampIDs: 001A, 002A, 003A contain testgroup TO15_SG(UG/M3).

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: BASELINE ENVIRONMENTAL **Project:** 21308-00; 890 Petaluma Blvd North **Work Order:** 2108883
Client Contact: Cem Atabek **QC Level:** LEVEL 2
Contact's Email: cem@baseline-env.com **Comments:** **Date Logged:** 8/17/2021

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	SubOut
001A	SSV-1	SoilGas	Leak Check Compound by TO15 (µL/L)	1	1L Summa	☐	☐	8/17/2021 12:05	5 days	8/24/2021		☐	
			TO15 for Soil Vapor (Scan-SIM)			☐	☐		5 days	8/24/2021		☐	
002A	SSV-2	SoilGas	Leak Check Compound by TO15 (µL/L)	1	1L Summa	☐	☐	8/17/2021 12:49	5 days	8/24/2021		☐	
			TO15 for Soil Vapor (Scan-SIM)			☐	☐		5 days	8/24/2021		☐	
003A	SSV-3	SoilGas	Leak Check Compound by TO15 (µL/L)	1	1L Summa	☐	☐	8/17/2021 13:30	5 days	8/24/2021		☐	
			TO15 for Soil Vapor (Scan-SIM)			☐	☐		5 days	8/24/2021		☐	

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

MAI Work Order # 2108883

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CHAIN OF CUSTORY RECORD

Turn Around Time:	1 Day Rush		2 Day Rush		3 Day Rush		STD	X	
J-Flag / MDL		ESL		Cleanup Approved		Bottle Order #			
Delivery Format:	PDF	X	GeoTracker EDF		EDD		Write On (DW)		EQuIS

Report To:	Cem Atabek	Bill To:	Same
Company:	Baseline Environmental		
Email:	cem@baseline-env.com		
Alt Email:		Tele:	5105887022
Project Name:	890 Petaluma Blvd North	Project #:	21308-00
Project Location:	Petaluma, CA	PO#:	
Sampler Signature:			

Helium Shround SN#:

Leak Check Default is IPA

Notes: Please specify units if different than default: VOCs is reported in µg/m³, fixed is reported in %.

SAMPLE ID / Location / Field Point Name	Sampling Start Date	Sampling Start Time	Sampling End Time	Canister SN#	Sample Kit / Manifold #	VOCs TO-15 (µg/m³) - See Notes	8010 by TO-15 (µg/m³)	TPH(g) (µg/m³)	LEED: (inc. 4PCH, Formaldehyde, CO, Total VOCs)	Fixed Gas (CO₂, Methane, Ethane, Ethylene, Acetylene, Propane, CO) %	Fixed Gas: (O₂, N₂) %	APH: Aliphatic and/or Aromatic (circle one) µg/m³	Helium Leak Check %	Leak Check (IPA) µg/m³			Matrix: Soil Gas	Matrix: Indoor Air		Canister Pressure / Vacuum: Initial	Canister Pressure / Vacuum: Final
SSV-1	8/17/21	11:59	12:05	5807-738	316-1343	X								X			X			-30	-5
SSV-2	↓	12:39	12:49	7519-867	316-684	X								X			X			-30	-5
SSV-3	↓	13:24	13:30	7525-873	316-1477	X								X			X			-30	-5

** MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Cem Atabek/Baseline	8/17/21	13:55	Baseline	8/17/21	13:55
	8/17/21	15:18pm		8/17/21	1518
PTO	8/17/21	1725		8/17/21	1725

Comments / Instructions:

Page ___ of ___

2108883

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Canister Serial Number	Initial vacuum (PSI) Lab Measured (Pre-sample)	Initial Vacuum (in of Hg) Lab Measured (Pre sample)	**Initial Vacuum (in of Hg) Field Measured (Pre sample)**	**Final Vacuum (in of Hg) Field Measured (post sample)**	**Field Vacuum Gauge Serial Number**	Received at Lab Vacuum (in of Hg) Lab Measured (post sample)	Received at Lab vacuum (PSI) Lab Measured Post sample)	Final Pressure after sample prep In Lab (PSIa) Lab Measured
5807-738			-30	-5	316-1343			
7519-867			-30	-5	316-684			
7525-873			-30	-5	316-1477			

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Sample Receipt Checklist

Client Name: **Baseline Environmental**
Project: **21308-00; 890 Petaluma Blvd North**

WorkOrder №: **2108883** Matrix: SoilGas
Carrier: Patrick Johnson (MAI Courier)

Date and Time Received: **8/17/2021 17:25**
Date Logged: **8/17/2021**
Received by: Valerie Alfaro
Logged by: Valerie Alfaro

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Custody seals intact on sample bottles?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☐	No	☑		
Sample/Temp Blank temperature	Temp:				NA	☑
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA	☑
UCMR Samples:						
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA	☑

Comments: