RO 14

Alamec'a Courty

BASELINE ASSESSMENT REPORT
Site Number 11132

3201 35th Avenue Oakland, California

1. Site Features and History

EMCON visited the site on July 11, 1994. The site is an operating service station located on the northeast corner of the intersection of Sutter Street and 35th Avenue in Oakland, California. Site features include a station building and three pump islands with concrete drive slabs and canopies. Existing USTs at the station consist of one 12,000-gallon and two 10,000-gallon double wall, fiberglass tanks, installed in 1986 (Mobil, 1986b; CRWQCR 1989; Tanknology, 1992). According to the station manager, these USTs contain regular unleaded, plus unleaded, and super unleaded gasoline and are equipped with an electronic leak detection system. In addition, the station personnel inventory the contents of the USTs by manually gauging the tanks. The concrete surfaces around the pump islands and over the UST complex appeared to be in good condition. The asphalt covering the rest of the site contained three shallow trenches running from the recovery system to recovery and monitoring wells. The asphalt had a large number of cracks. A groundwater treatment system near the northwest corner of the site was operating at the time of the EMCON visit. No tank observation wells, oil and water separators, remote fills, sumps, dry wells, or catch basins were apparent. A storm drain is located in the middle of the west edge of the site.

It appears BP acquired the site from Mobil in 1989 (BP, 1989). Former USTs at the site include one 12,000-gallon, one 8,000-gallon, and one 5,000-gallon steel UST, removed in 1986 (Lee, 1986). These tanks were installed in 1972 (Mobil, 1986a). The site is located in a residential area; no other commercial businesses are evident in the immediate vicinity. A Quikstop store is located within one city block south of the site. A former Exxon station was located on the northwest corner of 35th Avenue and School Street.

A site plan and tabulated data from EMCON's supplemental assessment work (Table A-1; Figure A-1) are included with this report in Attachment A. Photographs from EMCON's site visit are included as Attachment B. Copies of figures and tabulated data from previous investigations are included as Attachment C. Copies of soil boring logs and laboratory reports from EMCON's supplemental site assessment work are included as Attachment D.

2. Previous Investigations and Remedial Activities

Mobil reported that all three former USTs at the site failed a tank integrity test on March 5, 1986 (Mobil, 1986a; PetroTite, 1986). Lee filed a closure plan with Alameda County on March 20, 1986 (Lee, 1986). KEI subsequently conducted a tank inspection and soil sampling during the removal of the three tanks in April 1986 (KEI, 1986a). KEI reported groundwater on the bottom of the pit during tank removal and soil sampling, but did not report on the condition of the tanks or the excavated soil. Four soil samples were obtained beneath two tanks 2 feet below the tank in the native soil, and three samples were collected from beneath one tank (Figure C-1). The samples were analyzed for TPH-G. TPH-G (up to 210 ppm) was detected in five of the seven samples (Table C-1). The BAAQMD issued a permit to aerate 150 cubic yards of soil on site before disposal at a Class III Landfill (BAAQMD, 1986). No evidence of excavation or soil analysis was found in documents made available to EMCON.

KEI installed three monitoring well (MW-1 through MW-3) on July 30, 1986 (KEI, 1986b; Figure C-1). MW-1 was drilled to 45 feet bgs, and MW-2 and MW-3 were drilled to 35 feet bgs. The boring logs for wells MW-1 and MW-2 indicated that silty clay with rock fragments and gravel was encountered during drilling (KEI, 1986b); a boring log for well MW-3 was not contained in the report reviewed by EMCON. Groundwater was encountered while drilling between 24 and 33 feet bgs. A faint gasoline odor was reported in the soil cuttings encountered between 5 and 7 feet bgs (KEI, 1986b). One soil sample from each boring, collected between 16 and 26 feet bgs, was analyzed for TPH-G. TPH-G (up to 12.0 ppm) was detected in the soil samples from MW-1 and MW-2 (Table C-2). Groundwater samples were also taken from each monitoring well and analyzed for TPH-G and BTEX. TPH-G (up to 26,000 ppb) and BTEX (up to 3,800 ppb benzene, 1,000 ppb toluene, and 1,700 ppb xylenes) were detected in groundwater samples collected from wells MW-1 and MW-2 (listed in ppm in Table C-2).

It appears that KEI performed monthly monitoring and quarterly sampling of the three monitoring wells from October 1986 to February 1989; however, EMCON was not provided with reports covering this period (KEI, 1987a, 1987b, 1987c, 1988, 1989). Available reports indicated that groundwater from wells MW-1 and MW-2 had an odor that increased from "moderate" to "strong" in well MW-1 and from "slight" to "moderate" in well MW-2 (Table C-3). A sheen was reported on well MW-1 on December 23, 1986 (KEI, 1987a). On December 21, 1988, KEI reported 3 inches of free-floating product in well MW-1 (KEI, 1989). Free-floating product was also reported in well MW-2 and a sheen was reported in well MW-3 on February 15, 1989 (KEI, 1989). In a September 28, 1987, report, KEI stated "the presence of a small amount of floating product in MW-1, undocumented until the present quarter, implies the possibility

that a pocket of free product is being leached from the soil into the groundwater" (KEI, 1987c). A figure attached to the KEI March 16, 1989, monitoring and sampling report indicated the direction of groundwater flow was to the south (KEI, 1989).

Quarterly groundwater samples were collected and analyzed for TPH-G and BTX or BTEX. TPH-G (up to 210,000 ppb), benzene (up to 28,000 ppb), toluene (up to 30,000 ppb) ethylbenzene (up to 8.5 ppb), and xylenes (up to 12,000 ppb) were detected in all wells (listed in ppm on page 1 of Table C-4). The highest concentrations of both TPH-G and BTEX were detected in groundwater samples collected from well MW-1, near the southeast corner of the UST complex.

Alton drilled ten soil borings to various depths ranging from 25 to 33 feet bgs in January and February 1990 (Alton, 1990a). The borings were advanced 3 to 4 feet beyond the depth at which groundwater was encountered. The report contained no information about site geology or hydrogeology, other than a groundwater contour elevation figure showing that the direction of groundwater flow beneath the site was toward the southwest at the time of the investigation (Alton, 1990a). The borings were converted into temporary wells (TW-1 through TW-10; Figure C-2), and groundwater samples were collected. Samples from MW-1 and TW-2 were not analyzed due to the presence of free-floating product. TPH-G (up to 240,000 ppb) was detected in samples collected from wells MW-2 and MW-3, and from temporary wells TW-1, TW-3, TW-5, TW-6, TW-9, and TW-10 (Table C-5). BTEX (up to 2,400 ppb benzene, 7,300 ppb toluene, 5,600 ppb ethylbenzene, and 28,000 ppb xylenes) was detected in all analyzed samples. The highest concentrations of TPH-G and BTEX were detected in temporary wells TW-5, located off site to the southwest, and TW-10, located near the northwest corner of the UST complex.

Alton drilled two soil borings based on the results of these activities. The borings were converted into one groundwater monitoring well (MW-4) and one recovery well (RW-1). Alton drilled three off-site soil borings which were converted into monitoring wells MW-5 through MW-7 (Alton, 1990b; Figure C-3). The borings were drilled to approximately 35 feet bgs. During drilling, soil samples were collected from borings at 5-foot intervals until the first groundwater was encountered, at about 26 feet bgs in MW-5 and 28 feet bgs in MW-6 and MW-7. Silty clay was the predominant soil type encountered throughout each boring. At the time of the investigation, groundwater elevation data indicated a southerly groundwater flow direction, with an average gradient of approximately 0.01 ft/ft (Alton, 1990b). Alton reported no known or reported groundwater production wells in use as domestic or municipal water supply sources within the immediate vicinity or within a 1/2-mile radius of the site (Alton, 1990b).

Eighteen soil samples collected from five borings were analyzed for TPH-G and BTEX. TPH-G (up to 770 ppm) and BTEX (up to 4.8 ppm benzene, 44 ppm toluene, 13 ppm ethylbenzene, and 94 ppm xylenes) were detected in soil samples from RW-1, near the southwest corner of the UST complex, and MW-5, off site to the southwest. (Table C-6).

Groundwater samples were collected from wells MW-3 through MW-7; MW-1 and MW-2 were not sampled because free-floating product was present in each well at a measured thickness of 1.25 and 0.10 feet, respectively. TPH-G (up to 280 ppb) and BTEX (up to 200 ppb benzene, 210 ppb toluene, 46 ppb ethylbenzene, and 290 ppb xylenes) were detected in groundwater samples collected from wells MW-3 and MW-5 (Table C-7). The sample from well MW-5, the most downgradient off-site monitoring well, had the highest concentrations of TPH-G and BTEX in both soil and groundwater samples. Alton noted that a Quikstop store with USTs was approximately 10 feet from MW-5 (Alton, 1990b).

KEI conducted soil sampling during routine dispenser modifications in August 1990 (KEI, 1990a). Three soil samples (D1, D2, and D3) were collected from beneath product dispensers at depths ranging from approximately 3 to 7 feet bgs, and four soil samples (PT-1 through PT-4) were collected from the product pipe trenches at a depth of about 3 feet bgs (Figure C-4). The samples were analyzed for TPH-G, BTEX, and organic lead. TPH-G (21 ppm), benzene (0.0099 ppm), toluene (0.062 ppm), xylenes (0.038 ppm), and ethylbenzene (0.060 ppm) were detected in soil sample PT-3 (Table C-8).

KEI also sampled approximately 100 cubic yards of stockpiled soil at the site to determine proper disposal of the soil (KEI, 1990b). Two composite soil samples (Comp A and Comp B) were taken from the piping trench excavation stockpile (Figure C-5). KEI returned 10 days later and sampled approximately 50 cubic yards of previously sampled aerated soil (Comp 1; Figure C-6). The three samples were analyzed for TPH-G and BTEX. TPH-G (up to 240 ppm) was detected in all three samples (Table C-9). One or more BTEX constituents (up to 0.060 ppm benzene, 0.70 ppm toluene, 9.5 ppm xylenes, and 0.68 ethylbenzene) was also detected in all samples. KEI stated that, based on results of laboratory analyses, the soil could be disposed of at an approved Class III disposal site (KEI, 1990b).

Alton drilled three off-site soil borings (SB-8 through SB-10) in February 1991. The borings were converted into groundwater monitoring wells MW-8 through MW-10 (Alton, 1991c; Figure A-1). The borings were drilled to approximately 35 or 40 feet bgs. Soil samples were collected from the borings at 5-foot intervals and at significant lithologic changes until the first groundwater was encountered, at approximately 25 feet bgs in each well. Silty clay was the predominant soil type

encountered throughout each boring. Depth to groundwater, as measured from the top of the casing on April 5, 1991, ranged from 12 to 18 feet. The depth to water in MW-6 could not be obtained because an abandoned vehicle was over the well box. The depth to water was not measured in RW-1 because an "oily substance" was present on the water surface (Alton, 1991c). According to Alton (1991c), these data indicated a southeasterly groundwater flow direction with an average hydraulic gradient of approximately 0.003 ft/ft at the time of the investigation. A pumping test was also conducted to estimate aquifer parameters.

Nine soil samples, collected from 10.5 to 26.0 feet bgs, were analyzed for TPH-G and BTEX. TPH-G (up to 390 ppm) and BTEX (up to 1.8 ppm benzene, 16 ppm toluene, 6.7 ppm ethylbenzene, and 37 ppm xylenes) were detected in samples taken from all borings (Table C-10). The highest concentrations were detected at 20.5 to 21.0 feet bgs in boring SB-8.

Groundwater samples collected from wells MW-3 through MW-5 and MW-7 through MW-10 and were analyzed for TPH-G and BTEX. Wells MW-1 and MW-2 were not sampled because of the presence of free-floating product. MW-7 was not sampled because an abandoned vehicle was located over the well, and RW-1 was not sampled because an oily substance was present. TPH-G (up to 7,100 ppb) was detected in samples from wells MW-3 and MW-8 through MW-10 (Table C-11). BTEX (up to 780 ppm benzene, 450 ppb toluene, 64 ppb ethylbenzene, and 2,400 ppb xylenes) was detected in wells MW-3 through MW-5 and MW-7 through MW-10. The highest concentrations of both TPH-G and BTEX were detected in off-site wells MW-8 through MW-10, located downgradient and south of the UST complex.

Alton conducted a sensitive receptors survey as part of their supplemental site investigation study (Alton, 1991c). The report, dated February 20, 1991, stated that the nearest residence was 50 feet, the nearest hospital was 11,000 feet, and the nearest school was 1,000 feet from the site. According to Alton (1991c), the aquifer was a Class III: Not a Potential Source of Drinking Water.

HETI prepared an Interim Remedial Action Plan on March 20, 1992 (HETI, 1992a). In this plan, HETI stated that free-floating product was routinely removed by hand bailing from monitoring wells MW-1 and MW-2 and recovery well RW-1 during the quarterly sampling rounds. HETI estimated that 5 gallons of product were removed each quarter (HETI, 1992a). HETI proposed an interim groundwater and product recovery system to facilitate removal of free and dissolved phase hydrocarbons from the groundwater at this site. HETI also stated that "while this system will not be designed to address the off-site portion of the hydrocarbon plume, it will provide data necessary to plan the most cost effective long term remedial solution " (HETI, 1992a).

The remediation system was activated on November 25, 1992, and has operated intermittently since. A memo from Alisto to BP noted that the remediation system "continued to be shut down by the station owner due to non-payment for electricity" (Alisto, 1994f). The East Bay Municipal Utility District (EBMUD) issued a Wastewater Discharge Permit to BP on November 10, 1992, and Alisto has filed monthly or quarterly sewer discharge reports with the EBMUD since February 1993 (EBMUD, 1992; Alisto, 1993a, 1993c, 1993e, 1994b, 1994d).

Alton, HETI, and Alisto have performed quarterly groundwater sampling since July 1990 (Alton, 1991a, 1991b, 1991d, 1992; HETI, 1992b; Alisto, 1992a, 1992b, 1993b, 1993c, 1993d, 1994a, 1994c, 1994e). The latest report available to EMCON was dated May 15, 1994 (Alisto, 1994e). Since July 1990, free-floating product has consistently been detected in monitoring wells MW-1 and MW-2 and recovery well RW-1 (Table C-12). In October 1992, free-floating product was detected in monitoring wells MW-8 and MW-10 (Table C-12). In October 1993, free-floating product was detected in monitoring well MW-9 (Table C-12). Alisto's May 1994 sampling report contained a table showing the amount of product removed from these wells since October 1993 (Table C-13). TPH-G (up to 8,700 ppb) and BTEX (up to 440 ppb benzene, 96 ppb toluene, 42 ppb ethylbenzene, and 196 ppb xylenes) consistently have been detected in wells MW-3 and MW-5 (Table C-12).

3. Regulatory Status and Other Issues

The local regulatory agency (Alameda County Department of Environmental Health) has a case file on site 11132. The file contained tank tightness tests, hazardous material management plans, UST spill response and monitoring plans for the period 1989 through 1993, as well as the release report and various site assessment and sampling reports discussed in Section 2. The file also contained agency site inspection reports of this site for 1990 through 1993 (Alameda, 1990, 1991a, 1992, 1993).

BP received a notice of violation for the noncompliance discovered during the 1991 inspection (Alameda, 1991b). These violations included not submitting copies of tank tightness test results for piping, an incorrect underground storage tank permit application, and an incomplete spill and leak response plan.

4. Supplemental Site Assessment Work

EMCON conducted supplemental assessment activities at the site on November 11, 1994. One exploratory soil boring (THP-1) was advanced by using CPT equipment, and soil samples were collected from the boring. The boring was advanced approximately

23 feet bgs near the service station building (Figure A-1). Soil types logged from drilling the boring included sandy gravel and silty sand underlain by clay to approximately 23 feet bgs. The CPT equipment met with refusal at the extent explored (23 feet bgs). A copy of the boring log for THP-1 (labeled HP-1) is included in Attachment D.

The soil sample from boring THP-1 was collected from 4 to 4.5 feet bgs and submitted for TPH-G, TPH-D, TPH-O, BTEX, and PCBs analyses. TPH-O, at a concentration of 120 ppm, was the only analyte detected (Table A-1). A copy of the laboratory report is included in Attachment D.

5. Baseline Summary

A review of the most recent relevant data available in existing files, observations made during site visits, and data collected during the environmental investigation performed in accordance with the BP/Tosco purchase agreement have determined the presence of hazardous substance contamination in the soil and groundwater at this site. Such review has further determined evidence of contamination and sources of contamination which could result in the presence of hazardous substance contamination not yet detected.

Although the complete extent of contamination is not known at this time, there is sufficient evidence to demonstrate that the site was contaminated before the time of Tosco's purchase. The areas at the site for which evidence of soil and groundwater contamination exists are the pump islands, the gasoline UST complex, and off site to the south.

Soil samples collected from borings MW-1, MW-2, MW-5, SB-8 (MW-8), SB-9 (MW-9), SB-10 (MW-10), RW-1, and THP-1; from the former UST complex excavation; from the former pump island excavations; and from the former product piping trenches contained one or more of the following at concentrations above the method detection limits: TPH-G and BTEX.

Groundwater samples taken from wells MW-1 through MW-10, RW-1, and temporary wells TW-1 and TW-3 through TW-10 demonstrated the presence of one or more of the following at concentrations above method detection limits: TPH-G and BTEX.

The extent of evidence of actual contamination levels present and the evidence of sources of contamination consists of:

• Soil and groundwater data as summarized earlier in this report and detailed in existing files

- Free-floating product observed in several on-site and downgradient off-site monitoring wells on multiple occasions
- Failed tank tightness test results in 1986
- The existence of an operating groundwater remediation system

In conclusion, existing and developed evidence establishes a contamination baseline consisting of the measured presence of hazardous substance contamination in soil and groundwater and evidence of historic sources and releases of hazardous substances. This report establishes a contamination baseline consisting of:

- 1. Known areas of contamination from measured or observed direct evidence, and application, and
- 2. On-site or off-site areas of contamination which have not yet been detected but which are associated with or are consistent with evidence areas of contamination and historic releases of hazardous substances.

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Alameda. 1993. Hazardous Material Inspection Form for BP Oil. 3201 35th Avenue, Oakland, California. (Exact Month and Day Illegible).

Alisto. 1992a. Quarterly Groundwater Monitoring and Sampling Report. BP Oil Company Service Station No. 11132, 3201 35th Avenue Oakland, California. July 29, 1992.

Alisto. 1992b. Quarterly Groundwater Monitoring and Sampling Report. BP Oil Company Service Station No. 11132, 3201 35th Avenue Oakland, California. November 9, 1992.

Alisto. 1993a. Sewer Discharge Permit - Results of Analysis. 3201 35th Street, Oakland, California. February 9, 1993.

Alisto. 1993b. Quarterly Groundwater Monitoring and Sampling Report. BP Oil Company Service Station No. 11132, 3201 35th Avenue Oakland, California. March 19, 1993.

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KEI. 1986b. Groundwater Monitoring System. Mobil Service Station #10-MFG, located at 3201 35th Avenue, Oakland, California. September 10, 1986.

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KEI. 1987b. Quarterly Report - Mobil Service Station #10-MFG, located at 3201 35th Avenue in Oakland, California. May 20, 1987.

KEI. 1987c. Quarterly Report - Mobil Service Station #10-MFG, located at 3201 35th Avenue in Oakland, California. September 28, 1987.

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KEI. 1990b. Stockpiled Soil Sampling for BP Service Station #11132, 3201-35th Avenue, Oakland, California. October 11, 1990.

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Mobil. 1986b. Mobil Oil Corporation Monitoring Plans, Alameda County, for 10-MFG, 3201 35th Avenue, Oakland, California, 94619. August 1\29, 1986.

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| Site No: 1113 | 2 |
|---------------|---|
| | |

ATTACHMENT A

SITE PLAN AND TABULATED DATA FROM SUPPLEMENTAL ASSESSMENT WORK

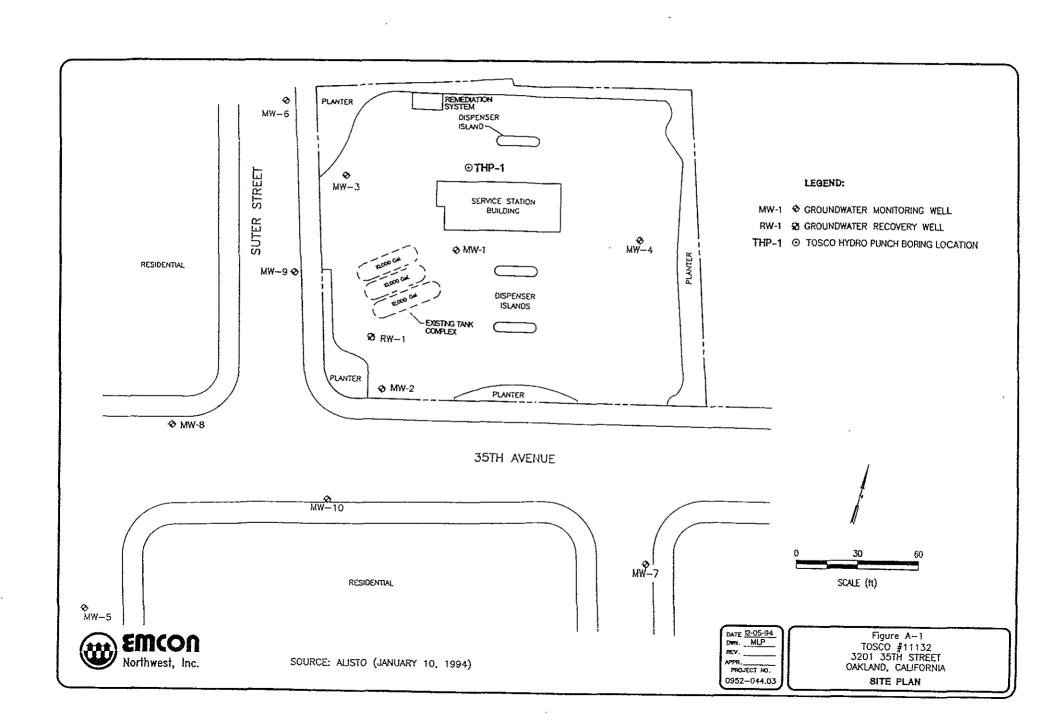


Table A-1

Site Number 11132 3201 - 35th Avenue, Oakland, California

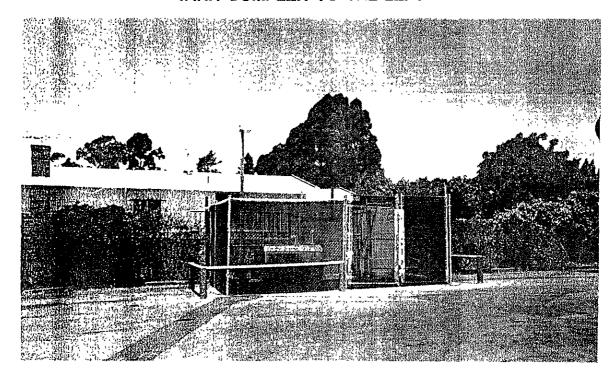
Soil Sample Results of Analyses (ppm)

| | | | California DHS LUFT Method TPH-G | | DHS LUFT rocarbon Scan | | BT EPA Metho | EX d 5030/8020 | |
|---|-----------------|----------------|---|-------|---------------------------|---------|-----------------|-------------------|------------------|
| Sample Number | Depth (feet) | Date Collected | ТРН-G | TPH-D | ТРН-О | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| THP1-S-4-4.5* | 4-4.5 | 11/22/94 | nď | nd | 120 | nd | nd | nd | nd |
| NOTE: TPH-G = Total petroleum hydrocarbons as gasoline. TPH-D = Total petroleum hydrocarbons as diesel. TPH-O = Total petroleum hydrocarbons as oil. TPH-O = Total petroleum hydrocarbons as oil. TD = Tosco dispenser soil sample. THP = Tosco HydroPunch. THP = Tosco HydroPunch. SGP = Soil gas probe. THP is referred to as HP1 on the lab report (see Attachment D). | | | | | | | | | |

ATTACHMENT B SITE PHOTOGRAPHS



PUMP ISLANDS AND STATION BUILDING TANK COMPLEX TO THE LEFT



GROUNDWATER TREATMENT SYSTEM



DATE 10-94
DWN MLP
APPR
REVIS.
PROJECT NO
0952-044.03

Figure B-1 TOSCO #11132 3201-35TH AVENUE OAKLAND, CALIFORNIA SITE PHOTOGRAPHS

ATTACHMENT C

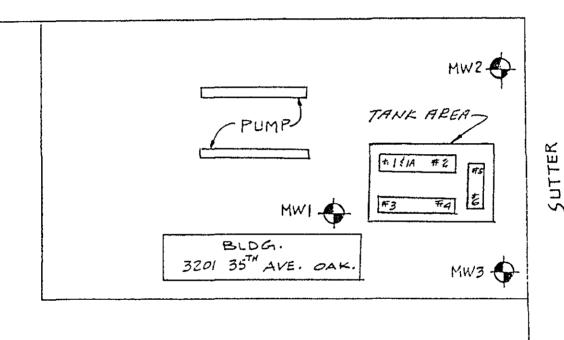
SUMMARY TABLES AND FIGURES FROM PREVIOUS INVESTIGATIONS



Consulting Engineers 535 Main Street Martinez, Ca. 94553 (415) 372-5444



35 AVE.



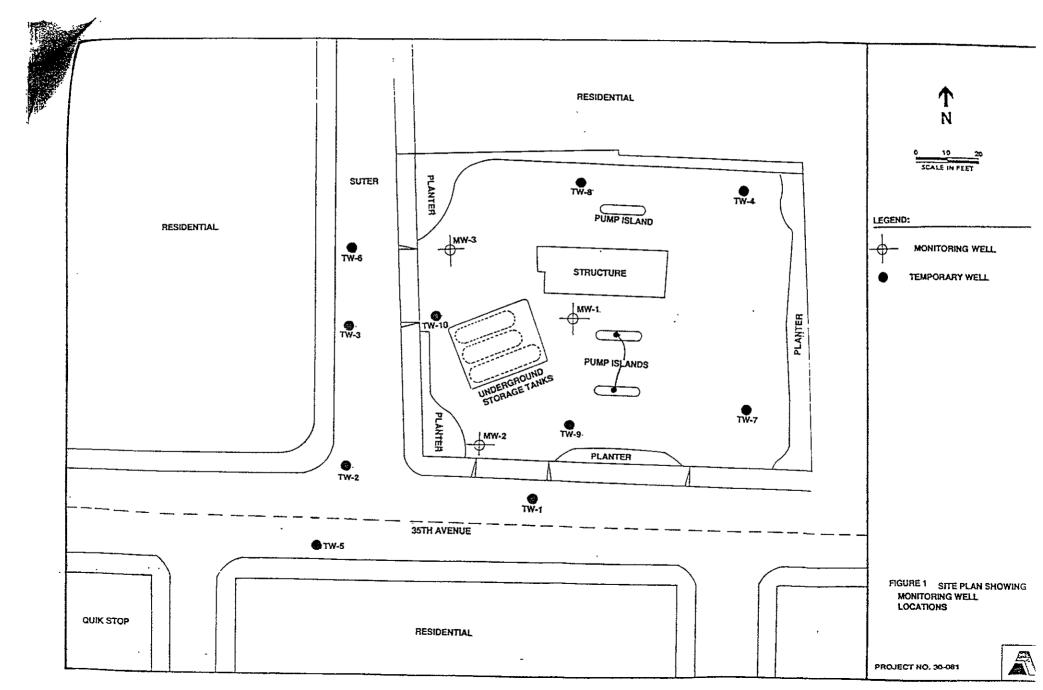
LOCATION PLAN

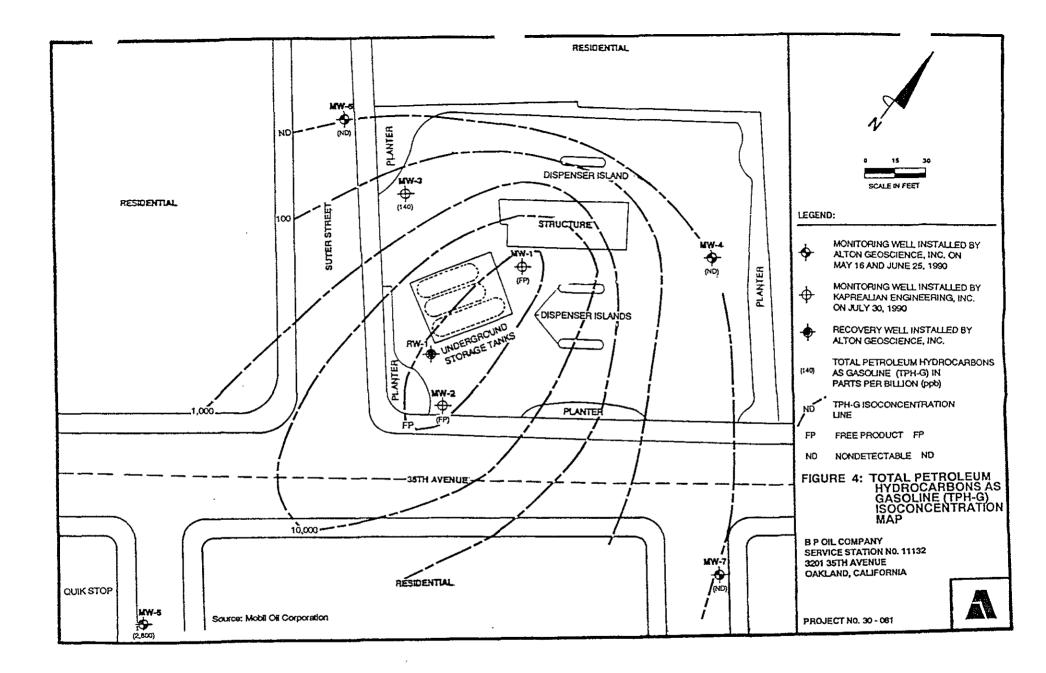
N.T. S.

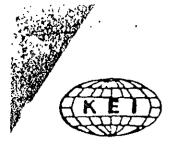
MW (HENITORING WELL)

Source: KEI, September 10, 1986

Figure C-2

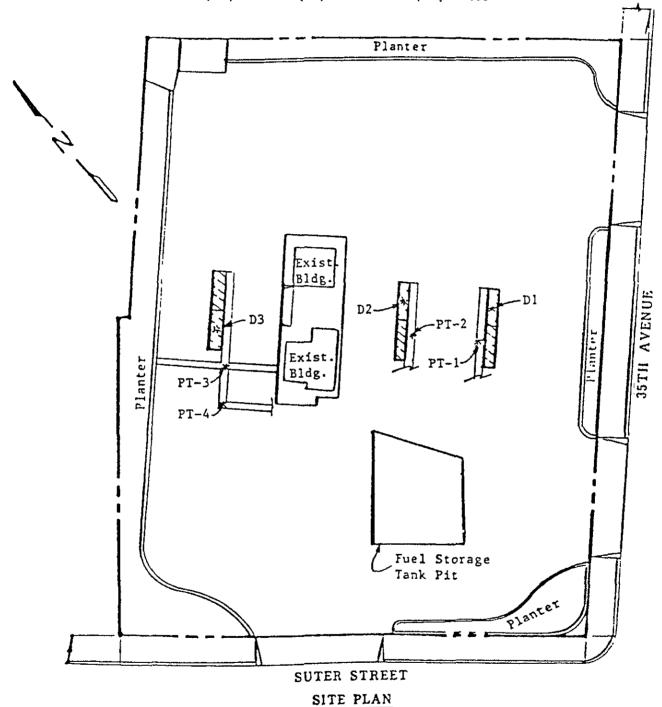






Consulting Engineers

PO BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX (707) 746-5581



LEGEND

* Sample Point Location

Approx. scale feet

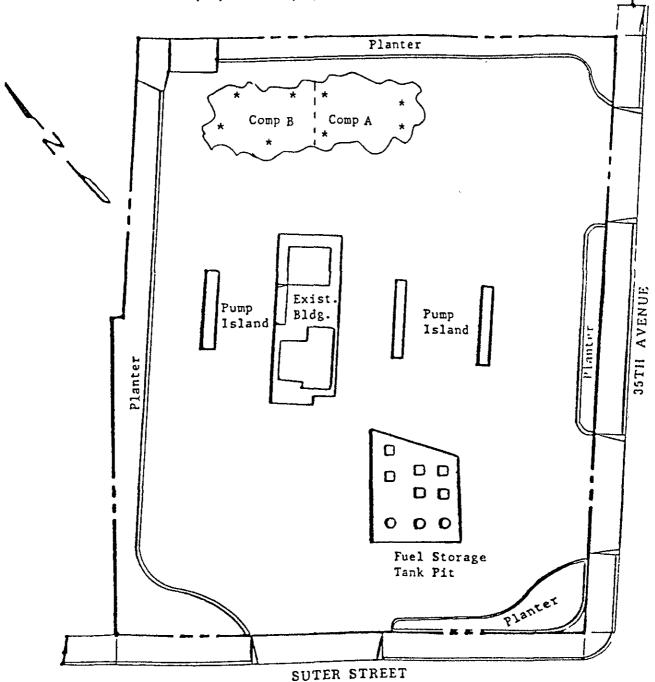
BP Service Station
3201 35th Avenue
Oakland, CA
Figure C-4

Source: KEI, October 11, 1990a



Consulting Engineers

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SITE PLAN

Figure 1

LEGEND

* Sample Point Location

Approx. scale feet

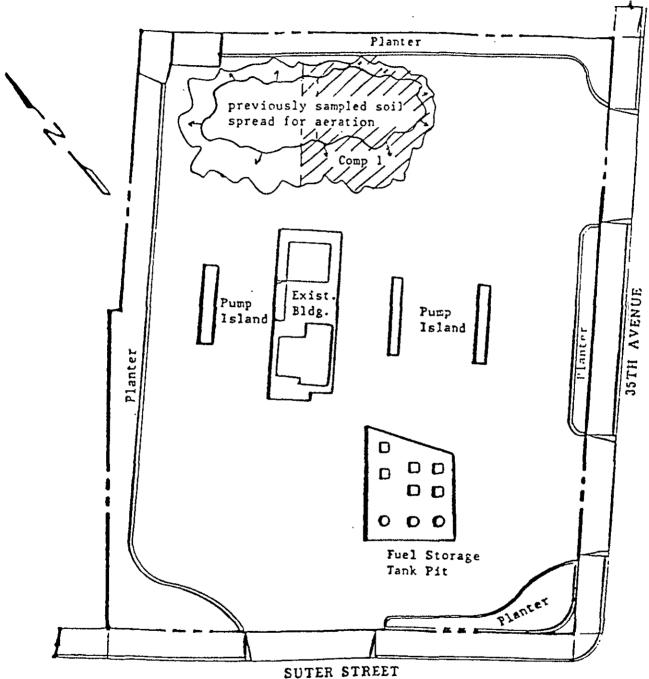
BP Service Station 3201 35th Avenue Oakland, CA



(

Consulting Engineers

P.O. BOX 996 . BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX (707) 746-5581



SITE PLAN Figure 2

LEGEND

Sample Point Location

60 30 feel Approx. scale BP Service Station 3201 35th Avenue Oakland, CA

Figure C-6

Source: KEI, October 11, 1990b

ENVIRONMENTAL RESEARCH GROUP, INC.

11/ N. First Ann Arbor, Michigan 48104 (313) 662-3104



April 7, 1986

KEI Engineers 535 Main Street Martinez, CA 94553

Attention: Mardo Kapriliean

Report #7535

P.O. #Contract

Site Location: Mobil, Oakland, 35th

RE: Seven (7) soil samples submitted on April 2, 1986, for rush total hydrocarbon response analysis.

Procedure: The samples are analyzed for total hydrocarbon response (gasoline) by following the method described in Attachment 2, Analytical Procedures for Fuel Leak Investigations. The samples are concentrated on a Tekmar LSC-2 automatic sample concentrator prior to injection into a gas chromatograph fitted with a flame ionization detector. Quantitation is performed, as total hydrocarbon response, against known concentrations of heptane-isooctane hydrocarbon response, against known concentrations of heptane-isooctane (55/45). The limit of detection for this method of analysis is one part per million (mg/kg), unless indicated.

The results are displayed in the table below.

| the results are | G (B p · = 5 = - | CONCENTRATION (mg/kg) |
|--|----------------------------------|--|
| ERG # | CLIENT ID# | CONCENTRATION (mg/ kg/ |
| 7535-1 7535-2 7535-3 7535-4 7535-5 7535-6 7535-7 | 1 1A 2 3 4 5 6 | 8 16 3.1 210 ND (1) ND (5) 5.7 |

ND = None Detected. The limits of detection are in ().

Submitted by:

Robert B. Flay

Manager, Organics Department

Molent D. Flay

RBF:clp 040886t

Ann Arbor

Chicago

Cleveland

San Francisco

Source: KEI, April 21, 1986

KEI-86-045 September 10, 1986

 $\frac{\texttt{TABLE} \; - \; 1}{\texttt{Results} \; \texttt{of} \; \texttt{Groundwater} \; \texttt{Analysis}}$

| Parameter | MW #1 | MW #2 | MW #3 |
|----------------------------------|-------|-------|--------|
| Total Fuel Hydrocarbons (ppm) | 4.4 | 26.0 | <0.05 |
| Benzene (ppm) | 0.8 | 3.8 | <0.001 |
| Toluene (ppm) | 0.52 | 1.0 | <0.001 |
| Xylene (ppm) | 0.35 | 1.7 | <0.001 |
| Depth (feet) | 22.0 | 20.0 | 21.2 |
| Free Product (inches) | 0.0 | 0.0 | 0.0 |
| Odor | ND | ND | ND |
| Sheen | ND | ND | ND |

Results of Soil Analysis

| Total Fuel Hydrocarbons (ppm) | 12.0 | 5.7/2.0 | <1.0 |
|----------------------------------|------|-----------|------|
| Depth (feet) | 26.0 | 16.0/26.0 | 16.0 |
| Odor | ND | ND | ND |

ND = None Detected

TABLE 1
Results of the Groundwater Analyses
In Parts Per Million (ppm)

| <u>Date</u> | <u>Parameter</u> | Well #1 | Well #2 | Well #3 |
|-------------|------------------------------------|---------|---------|---------|
| 8/18/86 | Total Dissolved Hydrocarbons | 4.4 | 26.0 | <0.05 |
| | Benzene | 0.8 | 3.8 | <0.001 |
| | Toluene | 0.52 | 1.0 | <0.001 |
| | Xylene | 0.35 | 1.7 | <0.001 |
| 12/23/86 | Total Dissolved Hydrocarbons | 86.0 | 6.2 | 0.25 |
| | Benzene | 28.0 | 3.6 | 0.0087 |
| | Toluene | 30.0 | 1.3 | 0.007 |
| | Xylene | 11.0 | 0.39 | 0.023 |

Monitoring Wells

| <u>Date</u> | Well # | DTW (feet) | <u>PT</u> (inches) | <u>Odor</u> | <u>Sheen</u> |
|-------------|-------------|-------------------------|-----------------------|-------------------|-----------------|
| 10/28/86 | 1 2 3 | 23.0 21.0 20.0 | <0.25 0.0 0.0 | Yes Yes Yes | No No |
| 11/26/86 | 1 2 3 | 22.92 21.58 20.25 | <0.1 0.0 0.0 | Yes Yes Yes | No No |
| 12/23/86 | 1 2 3 | 21.83 20.5 19.25 | 0.0 0.0 0.0 | Yes No No | Yes No No |

DTW - Depth to Water PT - Product Thickness KEI-P86-045A-2 May 20, 1987 Page 4

TABLE 1
GROUNDWATER MONITORING DATA

| <u>Date</u> | Well No. | DTW (ft) | <u>Odor</u> | Sheen | Gallons Pumped |
|-------------|----------|-------------|-------------|-------|-------------------|
| 4/25/87 | MW-1 | 20.813 | Moderate | No | 35 |
| | MW-2 | 19.375 | Slight | No | 35 |
| | MW-3 | 17.760 | No | No | 40 |
| 3/17/87 | MW-1 | 18.0 | Moderate | No | 30 |
| | MW-2 | 16.583 | Slight | No | 30 |
| | MW-3 | 15.563 | No | No | 30 |
| 2/11/87 | MW-1 | 19.750 | Moderate | Yes | 31 |
| | MW-2 | 17.542 | Slight | No | 30 |
| | MW-3 | 16.167 | No | No | 31 |

DTW = Depth to water

Source: KEI, May 20, 1987



KEI-P86-045A-3 September 28, 1987 Page 4

TABLE 1
GROUNDWATER MONITORING DATA

| <u>Date</u> | Well No. | DTW (ft) | | Product Thickness | <u>Sheen</u> | Gallons <u>Pumped</u> |
|-------------|----------------------|----------------------------|--------------------------|----------------------|-----------------|--------------------------|
| 6/20/87 | MW-1 MW-2 MW-3 | 22.33 21.60 19.708 | Slight Slight No | 0 0 0 | Yes No No | 40 35 35 |
| 7/20/87 | MW-1 MW-2 MW-3 | 22.875 21.583 20.270 | Strong Moderate No | 0.25 2 0 0 | No No | 40 35 35 |
| 9/10/87 | MW-1 MW-2 MW-3 | 23.333 21.917 20.667 | Strong Slight No | 1.25 0 | No No | 40 35 35 |

DTW = Depth to water

Source: KEI, September 28, 1987

Table C-3 Page 3 of 5 KEI-P86-045B-2 January 8, 1988 Page 4

TABLE 1
GROUNDWATER MONITORING DATA

| <u>Date</u> | Well No. | <u>DTW</u> (ft) | Product Thickness | <u>Odor</u> | Sheen | Gallons <u>Pumped</u> |
|-------------|----------|--------------------|----------------------|-------------|-------|--------------------------|
| 10/17/87 | MW-1 | 23.583 | 0.25 | Strong | Yes | 80 |
| | MW-2 | 22.688 | 0 | Faint | No | 65 |
| | E-MM | 21.33 | 0 | None | No | 65 |
| 11/18/87 | MW-1 | 23.250 | 0 | Strong | Yes | 45 |
| | MW-2 | 21.438 | 0 | Faint | No | 35 |
| | MW-3 | 20.50 | 0 | None | No | 30 |
| 12/19/87 | MW-1 | 19.729 | 0 | Strong | Yes | 45 |
| | MW-2 | 16.833 | 0 | Faint | No | 35 |
| | MW-3 | 16.750 | 0 | None | No | 30 |

Source: KEI, January 8, 1988

KEI-P86-0405.QR5 March 16, 1989

TABLE 1
SUMMARY OF MONITORING DATA

| Date ! | Well No. | Water Depth (feet) | Product Thickness | Sheen | Water Bailed (gallons) |
|----------|----------|--------------------|----------------------|-------|------------------------|
| 2/15/89 | MW-1 | 19.60 | .5* | | 45 |
| -,, | MW-2 | 18.16 | .5* | | 30 |
| | MW-3 | 16.54 | 0 | Trace | 30 |
| 1/17/89 | MW-1 | 19.71 | 1.25* | | 22 |
| _, | MW-2 | 18.20 | Trace | | 14 |
| | MM-3 | 16.79 | 0 | None | 0 |
| 12/21/88 | MW-1 | 22.15 | (3*) | | 25 |
| | MW-2 | 22.38 | 0 √38# | | 15 |
| | MW-3 | 19.05 | 0 | None | 0 |

Source: KEI, March 16, 1989

Table C-3 Page 5 of 5 KEI-P86-045B-2 January 8, 1988 Page 5

TABLE 2

RESULTS OF GROUNDWATER ANALYSES
(Concentrations are in Parts Per Million)

| <u>Date</u> | <u>Parameter</u> | <u>MW-1</u> | MM-5 | <u>MW-3</u> |
|-------------|------------------|-------------|--------|-------------|
| 12/22/87 | TPH | 69.00 | 9.50 | <0.050 |
| | Benzene | 28.00 | 0.360 | 0.00085 |
| | Toluene | 27.00 | 0.990 | 0.0016 |
| | Xylene | 12.00 | 6.00 | 0.0058 |
| 9/10/87 | TPH | 210.00 | 13.00 | <0.050 |
| and | Benzene | 6.80 | 0.170 | <0.0005 |
| 9/22/87 | Toluene | 11.00 | 0.065 | <0.0005 |
| | Xylene | 12.00 | 0.740 | <0.0005 |
| 4/25/87 | TPH | 13.00 | 1.50 | <0.050 |
| | Benzene | 1.80 | 0.120 | <0.0005 |
| | Toluene | 0.730 | 0.0078 | <0.0005 |
| | Xylene | 1.300 | 0.150 | <0.0005 |
| 12/23/86 | TPH | 86.00 | 6.2 | 0.25 |
| | Benzene | 28.00 | 3.6 | 0.0087 |
| | Toluene | 30.00 | 1.3 | 0.007 |
| | Xylene | 11.00 | 0.39 | 0.023 |
| 8/18/86 | TPH | 4.4 | 26.0 | <0.050 |
| | Benzene | 0.8 | 3.8 | <0.001 |
| | Toluene | 0.52 | 1.0 | <0.001 |
| | Xylene | 0.35 | 1.7 | <0.001 |

Source: KEI, January 8, 1988

Table C-4 Page 1 of 2 KEI-P86-0405.QR5 March 16, 1989

TABLE 2

SUMMARY OF LABORATORY ANALYSES

(All results in ppb)

| <u>Date</u> | Sample Well # | Depth (feet) | TPH as Gasoline | Benzene | Toluene | Xylenes | Ethyl- benzene |
|-------------|------------------|-----------------|--------------------|------------|----------|-------------|-------------------|
| 2/15/89 | MW-1 | 20.00 | Not samp] | led due to | presence | of free pro | duct |
| | MW-2 | 18.33 | 9,200 | 110 | 290 | 1,400 | 8.5 |
| | MW-3 | 18.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |

Source: KEI, March 16, 1986

Table C-4 Page 2 of 2

TABLE 1 RESULTS OF ANALYSIS GROUND WATER SAMPLES

| Well | TPH (ppm) | Benzene (ppb) | Toluene (ppb) | Ethyl- benzene (ppb) | Total Xylenes (ppb) |
|-------|--------------|------------------|------------------|----------------------------|---------------------------|
| MW-1 | FP | | | | and the age |
| MW-2 | 14 | 580 | 1300 | 460 | 2300 |
| MW-3 | 0.5 | 20 | 30 | 24 | 35 |
| TW-1 | 7.4 | 230 | 180 | 690 | 1200 |
| TW-2 | FP | | | | |
| TW-3 | 22 | 2400 | 2800 | 530 | 4000 |
| TW-4 | ND <0.1 | ND <0.3 | ND <0.3 | ND <0.3 | 0.7 |
| TW-5 | 240 | 1100 | 5100 | 5600 | 28000 |
| TW-6 | 20 | 56 | 910 | 590 | 3700 |
| TW-7 | ND <0.1 | ND <0.3 | 0.4 | 0.7 | 4.3 |
| TW-8 | ND <0.1 | 0.3 | 0.6 | 1.1 | 7.9 |
| TW-9 | 41 | 2100 | 5700 | 120 | 6900 |
| TW-10 | 50 | 1900 | 7300 | 1400 | 8000 |

ND = Non-Detected

FP = Free Product

ppm = parts per million
ppb = parts per billion
MW = Monitoring Well

TW = Temporary Well

Source: Alton, February 28, 1990

TABLE 2

RESULTS OF

LABORATORY ANALYSIS OF SOIL SAMPLES

June - July 1990

28111

| Boring | Sample Depth (ft) | TPH-G (Concen | B trations | T in Parts | E Per Mill | X ion) |
|--|--|----------------------------------|--|----------------------------------|----------------------------|--------------------------------|
| | | | June 1990 | 2 | | |
| MW-4 MW-4 MW-4 MW-4 MW-4 RW-1 RW-1 | 5.0 10.0 15.0 20.0 25.0 5.0 10.0 15.0 | ND ND ND ND ND ND | ND ND ND ND ND ND ND 0.72 | ND ND ND ND ND ND | ND ND ND ND ND | ND ND ND ND ND |
| RW-1 RW-1 | 20.0 | 41 50 | ND 1.4 July 1990 | 18.0 3.3 | 0.58 8.0 1.0 | 2.2 40.0 5.4 |
| MW-5 MW-5 MW-5 MW-5 MW-5 | 5.0 10.0 15.0 20.0 25.0 | ND 9.3 14 190 770 | ND ND 0.16 1.8 4.8 | ND 0.019 0.037 11 44 | ND ND 0.29 2.5 | ND 0.11 0.42 17 94 |
| MW-6 MW-6 | 15.0 20.0 | ND ND | ND ND | ND ND | ND ND | ND ND |
| MW-7 | 15.0 | ND | ND | ND | ND | ND |

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene T = Toluene

E = Ethylbenzene X = Total Xylenes

ND = Not Detected at Method Detection Limit (refer to Appendix D, Official Laboratory Reports)

Source: Alton, September 4, 1990

TABLE 3 RESULTS OF LABORATORY ANALYSIS OF GROUND WATER SAMPLES July 1990

| Monitoring Well | TPH-G (Conce | B ntrations | T in Parts | E per Bill: | X ion) |
|--------------------|-----------------|----------------|---------------|----------------|-----------|
| MW-1 | | ••• | | | |
| MW-2 | | turi dan | | | **** |
| MW-3 | 140 | 5.3 | 4.6 | 2.0 | 3.8 |
| MW-4 | ND | ND | ND | ND | ND |
| MW-5 | 280 | 200 | 210 | 46 | 290 |
| MW-6 | ND | ND | ND | ND | ND |
| MW-7 | ND | ND | ND | ND | ND |

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

В = Benzene ${f T}$ = Toluene

E = Ethylbenzene X = Total Xylenes

= Not Detected at Method Detection Limit ND

(refer to Appendix D, Official Laboratory Reports)
= No sample collected due to the presence of free

floating product

Source: Alton, September 4, 1990

KEI-J90-0804.R2 October 11, 1990

TABLE 1
SUMMARY OF LABORATORY ANALYSES
SOIL

(Collected on August 21 & 24, 1990)

| <u>Sample</u> | Depth (feet) | TPH as <u>Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> | Xylenes | Ethyl- <u>benzene</u> | Organic <u>Lead</u> |
|------------------------------|--------------------------|---------------------------|--------------------------|-------------------------|--------------------|--------------------------|------------------------|
| D1 D2 D3 | 4.5 3.0 7.0 | ND ND ND | ND ND ND | ND ND | ND ND | ND ND ND | ND ND |
| PT-1 PT-2 PT-3 PT-4 | 3.0 3.0 4.0 3.0 | ND ND 21 ND | ДИ ДИ 0.0099 ДИ | ND ND 0.062 ND | ДИ О.038 О.О | ND ND 0.060 ND | 0.55 ND ND ND |
| Detect Limits | | 1.0 | 0.0050 | 0.0050 | 0.0050 | 0.0050 | 0.050 |

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.

Source: KEI, October 11, 1990a

KEI-J90-0804.R1 October 11, 1990

TABLE 1
SUMMARY OF LABORATORY ANALYSES
(Collected on August 21 & 31, 1990)

| <u>Sample</u> | TPH as <u>Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> | Xylenes | Ethylbenzene |
|--------------------|---------------------------|----------------|----------------|---------|--------------|
| Comp A* | 8.0 | ND | 0.019 | 0.14 | 0.014 |
| Comp B | 240 | 0.060 | 0.70 | 9.5 | 0.68 |
| Comp 1 | 6.1 | ND | ND | 0.019 | 0.0060 |
| Detectio Limits | n 1.0 | 0.0050 | 0.0050 | 0.0050 | 0.0050 |

^{*} Organic lead was non-detectable.

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.

TABLE 2 11132

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES March 1991

| Boring | Sample Depth (ft) | TPH-G (Conce | B ntrations i | T n Parts | E Per Milli | X (no. |
|--------|-------------------------|-----------------|------------------|--------------|----------------|----------|
| SB-8 | 10.5-11.0 | ND<1 | ND<0.003 | 0.004 | ND<0.003 | ND<0.003 |
| | 20.5-21.0 | 390 | 1.8 | 16 | 6.7 | 37 |
| | 25.5-26.0 | ND<1 | 0.013 | 0.028 | 0.009 | 0.05 |
| SB-9 | 10.5-11.0 | ND<1 | ND<0.003 | 0.004 | ND<0.003 | 0.006 |
| | 20.5-21.0 | 120 | 1.7 | 7.1 | 1.7 | 11 |
| | 25.5-26.0 | 130 | 0.47 | 3.9 | 1.6 | 12 |
| SB-10 | 10.5-11.0 | ND<1 | ND<0.003 | 0.007 | ND<0.003 | 0.017 |
| | 20.5-21.0 | 73 | 0.49 | 3.3 | 1.3 | 6.9 |
| | 25.5-26.0 | 1 | 0.41 | 0.009 | 0.007 | 0.019 |

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene T = Toluene

E = Ethylbenzene X = Total Xylenes

ND = Not Detected at Method Detection Limit shown

RESULTS OF
LABORATORY ANALYSIS OF GROUND WATER SAMPLES
April 1990

| Monitoring | TPH-G | В | T . | E | X |
|------------|---------|------------|---------|-----------|------|
| Well | (Concen | trations i | n Parts | ber BIII: | LON |
| MW-1 | * | * | * | * | * |
| MW-2 | * | * | * | * | * |
| MW-3 | 400 | 69 | 22 | 6.1 | 57 |
| MW-4 | ND<50 | 2.2 | 3.8 | 1.5 | 2.8 |
| MW-5 | ND<50 | 17 | 0.9 | 0.7 | 1.6 |
| MW-6 | ** | ** | ** | ** | ** |
| MW-7 | ND<50 | ND<0.3 | 0.4 | 0.3 | 2.4 |
| MW-8 | 2700 | 780 | 450 | 64 | 310 |
| MW-9 | 7100 | 220 | 4 | 2.4 | 2400 |
| MW-10 | 1600 | 120 | 190 | 32 | 230 |
| RW-1 | *** | *** | *** | *** | *** |

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene T = Toluene

E = Ethylbenzene
X = Total Xylenes

ND = Not Detected at Method Detection Limit

* = No sample collected due to the presence of free

product
** = No sample collected due to the presence of an

abandoned vehicle located over the well

*** = The recovery well was not sampled due to the presence of an oily substance

Source: Alton, August 21, 1991

Table C-11

TABLE 1 - SLABARTY OF FESULTS OF OPCUNOWATER BANFUNG BP OL COMPANY SERVICE STATION NO. 11132 201 SOTH AVENUE, OMILAND, CALFORNA

ALISTO PROJECT NO. 10-004

| | | | отнго | PRODUCT | GACUNDWATER | TIHCI sock) | B (pryba) | T | E E | X Expt) | (ppm) | VB |
|----------------|----------------------------------|---------------------|----------------|-----------------|--------------|----------------|--------------|--------------|----------|-----------------------|------------------|----------------|
| ID MET | DATE OF SWE'LHO! MONTOPING | ELEVATION M Fund | WATER Fort | PHONESS Ford | BEVATION M | | | | | · | | |
| | | | | 0.22 | | - | - | _ | _ | _ | _ | - |
| | 67/39/90 | 164.75 | _ | 0.58 | _ | _ | _ | _ | _ | _ | - | - |
| LIVES | 12/21/90 | 144.75 | _ | | _ | _ | _ | - | | _ | - | - |
| SAV-1 SAV-1 | 03/07/01 | 100.75 | 20.54 | 0.10 | - | _ | - | _ | _ | _ | _ | _ |
| | 09/27/81 | 100,75 | | 0.27 | _ | _ | _ | _ | _ | _ | _ | _ |
| 1AV-1 | 09/27/01 | 100.77 | _ | 0.29 | _ | - | _ | · · | _ | | - | |
| MAY-1 | 12/10/71 | 1 (41,75 | | 0.15 | 153.36 | | - | _ | _ | _ | | _ |
| 144-1 | 0401/91 | 169,75 | 16.51 | 0.27 | 147,85 | _ | | | _ | | _ | _ |
| MAI-I | 07/03/72 | 186,75 | 22.30 | 0.24 | 145.95 | _ | _ | _ | _ | | _ | _ |
| | 10/05/92 | 144.75 | 23.34 | | 152.90 | _ | _ | _ | | _ | - | _ |
| LAY-1 | 01/13/10 | 100.75 | 17.03 | 0.24 | 161.97 | | _ | _ | | | - | - |
| LIMI | 04/23/93 | 104.75 | 14.10 | 0.42 | 146.10 | | | _ | _ | _ | _ | _ |
| LAVE 1 | 07/12/93 | 100.75 | 22.02 | 0,49 | 145.45 | _ | _ | - | - | | _ | - |
| LAY-1 | 10/21/83 | 169.7\$ | 25.12 | 1.00 | 147,20 | _ | | - | _ | - | - | _ |
| LAN-1 | 01/21/94 | 189.75 | 23.02 | 0.76 | 144.54 | _ | _ | _ | _ | | | |
| LAY-1 | 04/20/94 | 100,75 | 24.54 | 1,80 | 144.34 | | | | | _ | _ | |
| LAV-1 | 04214 | ** | | _ | _ | | | _ | | _ | | |
| | 67/08/99 | 105,14 | | 0.16 | - | _ | | - | | _ | - | - |
| PW45 | 15/21/90 | 186,14 | _ | 0.44 | | _ | | - | - | _ | _ | _ |
| PW-5 | 00/07/81 | 108.14 | 11.14 | | _ | _ | _ | | _ | _ | | - |
| PM4-5 | 06/27/91 | 108,14 | _ | 0.19 | _ | | - | - | _ | - | _ | _ |
| LAN-2 | 09/27/81 | 186,14 | _ | 0.15 | _ | _ | _ | _ | | _ | _ | |
| PM-5 | 12/18/91 | 164,14 | _ | 0.36 | 153.01 | | | _ | | _ | _ | |
| TWA-S | 0401/91 | 104.14 | 14.21 | 0.10 | 147.23 | | _ | _ | - | _ | _ | _ |
| TW45 | 67,53/12 | 100.14 | 20.93 | 0.03 | 145.54 | | | - | _ | _ | _ | _ |
| 3.MY-2 | 10/05/82 | 186,14 | 22,74 | 0.21 | 152.61 | - | | _ | _ | - | _ | _ |
| 144-5 | 01/13/93 | 164,14 | 15.55 | 6.02 | 151.75 | _ | _ | - | | _ | | _ |
| \$AV-2 | 04/23/83 | 100.14 | 16,54 | 021 | 147,23 | _ | _ | | - | _ | | _ |
| 1AY-2 | 07/12/93 | 106.14 | 20.44 | 0.06 | 143.44 | | - | _ | _ | | _ | |
| PM4-5 | 10/21/13 | 146,74 | 24.91 | 0.21 | 146.94 | | | _ | <u>-</u> | 250 | 1,7 | PACE |
| 144-2 | 01/21/84 | 184.14 | 21.20 | _ | 146.79 | 1400 | 140 | 370 | - | | | |
| 3,44-2 | 04/20/14 | 144.14 | 22,44 | - | , | | | | 20 | 3.6 | | |
| JAM-2 | 440 11 | | | | · _ | 140 | 6.3 | | نو | 27 | | _ |
| 1445 | 67709/90 | 167,17 | _ | _ | _ | 0.19 | 100 | | 61 | 57 | | . - |
| 7M-2 | 12021-00 | 167,17 | - | = | 146.77 | 4.4 | ** | | , , | - | _ | |
| 1444 | 0307/01 | 147.17 | 17,43 | | | 360 | 298 | | o.i | 11 | | . - |
| LW3 | 00/27/01 | 167,17 | _ | _ | _ | 0.07 | 7.5 | | 0.8 | 21 | | . – |
| PW-2 | 09/27/91 | 147,17 | _ | _ | - | 0.24 | 34 | | нÔ | NO. | | |
| 794-3 C-447 | | 167.17 | _ | | 153.44 | NO | HO | | 2 | 13 | | . ANA |
| LANG | | 167.17 | 13.00 | _ | 147,54 | 71 | 9.4 | | Ĩ. | £. | 1 - | . *** |
| LANG | | 347.17 | 19.50 | = | 145.95 | 67 | | | 13 | 2 2 | | |
| 734.3 | | | 21.22 | | - | HO-50 | 2.2 | | 2 | | | |
| 0C-1 | | - | | | 153.54 | £30 | | | | NO-0 | 5 - | |
| NAM-1 | TT 1777 | 167,17 | 13.63 | | 152.15 | NO-60 | | | | NO-co | | |
| PW4-2 | | | 13.02 | _ | | NO-ac | | | | 1 | • | PACE |
| 00-1 | | | | | 144.01 | 250 | | - | | 3 | ٠ د | PACE |
| SAY | | 107.17 | 10,10 | • | 146.36 | 63 | | • | | 4 | 2 - | PACE |
| LAV- | | | 21,81 | | - | et. | | ~ | | • | | _ PACE |
| OC-1 | | | | | 147.23 | 57 | | ~ | • | ŧ | xs 1 | PACE |
| SAN- | 3 01/21 / ≸ | | 19,94 20,24 | • | 144.83 | eC. | 2 | 4. Z. | | | | |
| LAY: | | 167,17 | 20.24 | • | | | | | | | | |

25 May 44

Source: Alisto, May 25, 1994

Table C-12 Page 1 of 4 PACE 1

TABLE 1 - SLAMARTY OF RESULTS OF OPCUNOWATER BANFUNG BY OK. COMPANY SERVICE STATION NO. 11132 201 SOTH AVENUE, CANGANO, CALFORNA

ALISTO PROJECT NO. 10-424

| | | | | | | | | 7 | £ | x | 00 | U8 |
|--------------|------------------------------------|-----------------------------|--------------------------|------------------------------|---|-------------|-------|----------------|-------------|--------------------|-------------|-----|
| MELL D | DATE OF SAMPLINGS MONITOPING | CLENG BEVATION M Fred | OFFINTO WATER FINE | PRODUCT THICKNESS FINA | OPOLINDWATER BLEVATION M F=4 | TTHG Eph | tocki | (ppto) | | (pob) | (ppm) | |
| | | | | | | - | _ | _ | - | - | _ | _ |
| | £7,09/10 | 104,75 | _ | 0.22 | _ | _ | _ | _ | _ | _ | _ | _ |
| JAY-1 | 12/21/90 | 100.75 | | 0.58 | _ | _ | _ | - | - | _ | _ | _ |
| LAY-1 | 03/07/91 | 100.75 | 20.54 | | - | _ | _ | _ | - | _ | - | _ |
| LMI-1 | 00/27/01 | 100.75 | _ | 0.10 | _ | - | _ | _ | | _ | _ | _ |
| LAY-1 | 09/27/01 | 100.75 | _ | 0.27 | | - | _ | | _ | _ | _ | _ |
| LAY-1 | 12/18/91 | 100.75 | _ | 0.28 | 163.26 | _ | - | - | _ | _ | _ | _ |
| MAK-1 | 04/01/93 | 186.75 | 14.51 | 0.15 | 147.85 | - | - | - | _ | | | _ |
| LAY-1 | g7,03/92 | 186.7% | 22,30 | 0.27 | 145.95 | _ | - | | | - | | |
| WH-1 | - | 101.75 | 23.94 | 0.24 | | _ | _ | _ | _ | *** | _ | _ |
| LAY-1 | 10/05/92 | 109.75 | 17.03 | 0.24 | 152.90 | = | - | _ | - | - | - | |
| LW1 | 01/13/13 | 100.75 | 18,10 | 0.42 | 161.57 | _ | | - | _ | | _ | _ |
| LAY-1 | 04/23/13 | 100.75 | 22 CZ | 0.49 | 148.10 | _ | _ | _ | | _ | | _ |
| LAY-1 | 97/12/93 | 169,75 | 25.12 | 1,09 | 145,45 | _ | - | | | _ | _ | _ |
| IAN-1 | 10/21/83 | 189,75 | 23.02 | 0,78 | 147.20 | | | | | _ | _ | |
| MY-1 | 01/21/94 | 100,75 | 24.54 | 1,80 | 146.56 | | | | | | | _ |
| 144-1 | 04/2074 | | | | | | | _ | - | - | _ | _ |
| | 6270999 | 165,14 | _ | 0.10 | - | _ | | | - | - | _ | _ |
| MAY 2 | 15,21/90 | 105.14 | - | 0.40 | = | _ | _ | | - | _ | _ | _ |
| LAY-2 | 03/07/81 | 100.14 | 19.18 | _ | _ | | - | _ | _ | _ | _ | _ |
| PAA-S | 06/27/81 | 106,14 | _ | 0,19 | | _ | | _ | _ | | | _ |
| 244.5 | 09/27/91 | 186.14 | | 0.15 | _ | _ | | _ | - | _ | - | _ |
| 14K-5 | 12/16/91 | 164.14 | _ | 0.34 | 153,01 | | | _ | _ | | - | _ |
| PW-S | 0401/91 | 100,14 | 1421 | 0.10 | | | - | _ | _ | _ | _ | _ |
| PW-S | 67/03/92 | 186.14 | 20.93 | 6.03 | 147.23 145.5 4 | - | | - | _ | _ | _ | _ |
| 144-2 | 10/05/92 | 186,14 | 22.74 | 0.21 | | _ | | _ | _ | - | _ | _ |
| M4-5 | | 108.14 | 15.55 | 0.02 | 162.61 | = | _ | | | _ | _ | _ |
| 144.5 | 01/13/93 | 106,14 | 1654 | 0.21 | 151.76 | _ | _ | | - | _ | _ | _ |
| LM-2 | 04/23/13 | 184.14 | 20.46 | 6,06 | 147,73 | _ | _ | _ | _ | _ | | |
| IM-2 | 07/12/93 10/21/93 | 104.14 | 24.91 | 0.31 | 143.46 146.94 | - | _ | _ | - | 230 | 1.7 | PA |
| PM-5 | 01/21/84 | 186.14 | 21.20 | - | 146,70 | 1800 | \$40 | 3770 | 54 | 250 | •.• | |
| 144-2 | 04/20194 | 186.54 | 22.44 | _ | 3-min | ,,,,, | | | | 3.6 | | _ |
| JAW-2 | 0000 | •• | | | | 140 | IJ | 4.8 | . 20 | 27 | | _ |
| 1441 | 47709/90 | 967,17 | - | _ | = | B. 75 | 100 | 4.0 | 4.1 | ş. | | - |
| LM43 | 1223-00 | 967,17 | - | - | 148.77 | 4.4 | - | 22 | | | | |
| 754-2 | 00/07/91 | 147,17 | 17.49 | | | 340 | 25 | 24 | 13 Q.A | 1,1 | | |
| LW3 | 08/27/91 | 147,17 | • | | _ | 0.07 | 7.9 | Ю | 0.0 | 21 | | |
| LAY-3 | 09/27/11 | 167,17 | _ | | | 0.24 | . 34 | 24 | NO. | NO. | | |
| 184-3 | 12/16/97 | 167.17 | | _ | 153.46 | NO | | NO. | 5.0 | 15 | | |
| LAY-J | 04/01/91 | 147,17 | 13.86 | _ | 147.54 | 71 | 8.4 | 0.0 | £.1 | a. | | |
| LAN-S | 67,03/102 | 167.17 | 18.50 | | 145.95 | 67 | | 1.1 | 1.5 | 2. | | |
| LANG | | 147.17 | 21.22 | Ξ | - | 10-50 | , 22 | | 42 | | | |
| 00-1 | | | - | | 153.54 | E00 | | 34 | NO-05 | NO ₄ 0. | 5 - | |
| 1843 | 4-4 | 167.17 | 13.63 | _ | 152.15 | NO-60 | | HO-05 HO-05 | NO-01 | MO-49 | | |
| MAY-3 | | | 15.02 | = | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | NO-sec | | | 12 | • | 4 - | |
| OC-1 | | _ | | _ | 146.01 | 250 | | | 4.7 | 3 | 3 - | |
| LAY. | | | 19.16 | | 146.24 | \$2 | | | | 4 | 2 - | |
| 184-3 | | | 21,81 | | - | 65 | | , | | 1 | - م | |
| 00-1 | | _ | | | 147.23 | 57 | | · | 33 | | 36 1 | £ 8 |
| LAY-3 | 01/21/94 | | 19,34 | | THERE | e Q: | 24 | , 2,1 | ~ | | | |
| LIN-3 | | 167,17 | 20.24 | | | | | | | | | |
| | | | | | | | | | | | | |

25 1 1 1 1

Source: Alisto, May 25, 1994

Table C-12 Page 1 of 4 PACE 1

TABLE 1 - SLAMARY OF RESULTS OF OROLHOWATER SAMPLING BY OIL COMPANY SERVICE STATION NO. 11132 201 JUTH AVENUE, OMPLAND, CALFORNIA

ALISTU PROJECT NO. 10-02N

| ID AETT | DATE OF SAMPLING MONITORING | CASING BLEVATION (4) FINA | DEPTH TO WATER F+4 | PRODUCT THONESS Fort | GROUNOWATER BLEVATION (A) (F=4) | TPH-G Epth | (ppb) | Ţ (pçt) | \$754 | (ppb) | \$554/ CO | a |
|------------|-----------------------------------|---------------------------------|--------------------------|----------------------------|---------------------------------------|---------------|--------|------------|---------|---------|--------------|-----|
| | 67/CM/NO | 170.24 | _ | | | NO | ю | М0 | Ю | ю | _ | |
| MAY-4 | 12/21/80 | 170.36 | _ | _ | | NO. | ю | ю | NO | 0.8 | _ | |
| 444 | 03/07/91 | 179.36 | 20.72 | _ | 149 84 | ND | 2.2 | 28 | 1.5 | 2.8 | - | - |
| LAN-4 | 06/27/81 | 170.36 | _ | | ~~ | NO. | 4.3 | 1.0 | 84 | . 10 | | _ |
| 1844-4 | 09/27/91 | 170.34 | - | _ | - | ю | Ю | ю | Ю | Ю | | - |
| LAW-4 | 12/14/91 | 170.34 | | | _ | ю | Ю | ю | NO | NO. | | _ |
| AV-4 | 04/01/91 | 170.36 | 17.45 | | 152.87 | Ю | , NO | , NO | NO. | NO. | - | AN. |
| MY4 | 07/03/92 | 170.36 | 22.16 | _ | 144,20 | NO-60 | NO-0.5 | ND-01 | M)-OF | NO-05 | _ | |
| AV-4 | 10/06/92 | 170.36 | 23.30 | | 144.99 | NO-60 | NO-45 | NO-44 | NO-Q5 | NO-Q.S | _ | AN. |
| | 01/13/93 | 170.36 | 17.54 | | 152,70 | NO-do | NO-05 | NO-05 | NO-0.5 | NO-0.5 | _ | PAC |
| 444 | 04/23/93 | 170.34 | 15.72 | _ | 154.64 | NO-SO | HO-0.5 | NO-0.5 | NO-45 | NO-0.5 | _ | PAC |
| MY4 | | 170.36 | 21,74 | _ | 144.62 | NO-do | NO-OS | NO-05 | 10-05 | MD-49 S | _ | PAC |
| 444 | 0771293 | 179.34 | 23.84 | | 144.52 | NO-50 | HO-65 | NO-03 | NO-41 | HD-GS | _ | PAC |
| 444 | 10/21/83 | 170.34 | 22.42 | _ | 147.94 | NO-S0 | ND-03 | HC-43.5 | 10-01 | HO-OS | - | PAC |
| M44 M44 | 01/21/94 | 170.34 | 22.64 | _ | 147.70 | ND-50 | HD-0.5 | ND-0.5 | NO-05 | HO-03 | 2.2 | PA |
| AY S | 07/09/90 | 185.14 | _ | _ | _ | 200 | 200 | 210 | 46 | 290 | _ | - |
| AVE | 12/21/90 | 165.14 | _ | _ | _ | 0.00 | 300 | 34 | 4.4 | 30 | _ | - |
| AV-6 | 03/07/91 | 105,14 | 16.60 | | 148.54 | NO: | 17 | 0.9 | 9.7 | 16 | - | - |
| A1-5 | 06/27/91 | 165.14 | - | _ | _ | 330 | 120 | 10 | 12 | • | _ | _ |
| M4 | 09/27/9/1 | 105,14 | _ | _ | _ | 0.73 | 230 | 16 | 20 | 22 | _ | - |
| MAY-S | 12/16/91 | 165.14 | | | - | NO | NO | NO | NO | HQ | | • |
| LAY-S | 0401-51 | 105,14 | 11.90 | _ | 153,15 | 800 | 290 | 54 | 11 | ** | | • |
| LAW 5 | 67/03/92 | 105.14 | 14.45 | _ | 146.49 | 150 | 34 | ND-05 | NO-co.s | 1,1 | - | × |
| MY-S | 20/05/82 | 105.14 | 20.32 | | 144.82 | 270 | 79 | 4 | 1.7 | 29 | - | - 4 |
| MY 6 | 01/13/93 | 165.14 | 13.03 | _ | 152,11 | 180 | 50 | 60 | 1.4 | 7.5 | _ | PA |
| MAY-E | 04/23/93 | 105,14 | 13.51 | _ | 151.43 | 8700 | 440 | 96 | 36 | 136 | _ | PA |
| LAV 6 | 67/129X) | 105.14 | 18.06 | _ | 147.08 | 250 | \$7 | 2.9 | 2,1 | 60 | | PA |
| LAY-S | 10/21/83 | 105.14 | 20,41 | _ | 144.73 | 210 | #2 | 1.5 | NO-0.5 | 1.4 | | PA |
| LAY-S | 01/21/94 | 185.14 | 18.96 | _ | 146,28 | 110 | 36 | 1.2 | NO-05 | 07 | _ | PA |
| MY 6 | 04/22/94 | 185,14 | 17.30 | _ | 147.84 | 890 | 230 | 4.5 | 1.4 | 13 | 1.3 | PA |
| SEN 4 | 67F 67 60 | 145.40 | | - | *** | NO. | ю | NO | NO. | NO | _ | |
| LAY-6 | 12/21/90 | 165.40 | | | | 0.17 | 2.6 | 7.0 | 49 | 25 | - | |
| MAYE M | | 165.40 | | | | | _ | ** | | _ | _ | • |
| 1474 K | • | 186.40 | | _ | _ | | _ | _ | _ | _ | _ | |
| M44 H | | 165.40 | | _ | _ | | | _ | - | _ | _ | |
| | | 185.40 | _ | _ | | NO. | 1.3 | 22 | NO: | 2.7 | - | |
| MY4 | 12/16/91 | 165,40 | 11.79 | = | 153.61 | ĸ | NO | ΝÖ | NO | NO | _ | |
| MY 6 | 0401/81 | 165.40 | 17.77 | _ | 147.43 | NO-60 | NO-0.5 | ND-0.5 | NO-0.6 | ND-0.5 | _ | |
| MH4 | 67/03/92 10/06/92 | 165.40 | 19,48 | = | 145.94 | NO-60 | NO-65 | ND-65 | NO-05 | NO-0.5 | _ | Ä |
| LW4 LW4 | 01/13/93 | 195.40 | 1134 | _ | 164.04 | HD-40 | NO-Q.E | NO-01 | NO-05 | ND-01 | _ | P |
| LAVI A | 0V72/10 | 195,40 | 12.52 | | 152.46 | NO-co | NO-44 | NO-Q3 | NO-04 | NO-0.5 | | P |
| MY-E | 07 (293 | 165.40 | 17.36 | _ | 148.04 | NO-SO | NO-0.5 | NO-05 | NO-0.5 | 0.7 | _ | ₽. |
| | 10/21/13 | 165,40 | 19,96 | _ | 145.42 | ND-50 | NO-05 | NO-05 | NO-0.5 | NO-40.5 | - | P. |
| M/- | | 145.40 | 18.10 | _ | 147,30 | NO-50 | NO-0.5 | LO-OS | NO-0.5 | ND-c0.5 | | P |
| MAG | 01/21/94 | 140.40 145.40 | 14.10 | | 146.72 | NO-50 | NO-0.5 | NO-05 | HO-Q5 | NO-05 | 20 | P |

Source: Alisto, May 25, 1994

Table C-12 Page 2 of 4

TABLE 1 - BUREURY OF PESULTS OF OFCUMOWATER SAMPLING BY OL COMPANY SERVICE STATION NO, 11132 2001 20TH AVENUE, CAULAND, CALIFORNIA

AUSTO PROJECT NO. 10-024

| 10 MET | DATE OF SAMPLING/ MONITORING | CASING BLEVATION (A) F=4 | DEPTH TO WATER F=4 | PRODUCT THICKNESS F=4 | OROUNDWATER BLEVATION (b) | १७भव १७५५ | (14tp) | T (ppb) | (ppb) | (ppb) | (bbur) OO | LAB |
|-----------------|------------------------------------|--------------------------------|--------------------------|-----------------------------|------------------------------|--------------|--------|------------|--------|--------|--------------|------|
| 1447 | 67706-90 | 167,61 | _ | _ | *** | NO | ю | ю | ю | NO | _ | |
| M47 | 12/21/80 | H27,81 | | - | _ | NO: | ю | ю | ю | HÔ | | _ |
| LAY-7 | 03/07/91 | 167,61 | 19.04 | | 144.57 | NO | NO. | 0.4 | 2.3 | 2.4 | _ | _ |
| M/4-7 | 06/27/91 | 167.81 | _ | - | - | 70 | 17 | 4 | 6.0 | 2.2 | _ | _ |
| MY-7 | 09/27/91 | 167,81 | | ~ | | NO | 0.4 | ю | NO | 04 | - | - |
| LM-7 | 120491 | 167.81 | ~ | - | - | NO | 0.7 | 2.9 | 0.8 | 33 | _ | - |
| MAY-7 | 0401/91 | 167.81 | 15.10 | _ | 152.43 | NO | NO | NO | NO | NO. | - | _ |
| A4-7 | 07/03/92 | 167,81 | .7.20 | _ | 147.33 | NO-60 | NO-Q.E | ND-0.5 | MO-GLS | NO-0.6 | _ | ANA |
| A+-7 | 1005/12 | 147.01 | 21.54 | _ | 146.05 | NO-60 | NO-05 | NO-0.s | ND-0.5 | 1.5 | | ANA |
| AN-7 | 0V1393 | 147,81 | 15.41 | _ | 152.20 | ND-50 | ND-05 | NO-05 | 10-45 | NO-GE | _ | PACE |
| LAY-7 | 04/23/93 | 147.41 | 15.84 | | 151.77 | ND-30 | NO-45 | 10-05 | NO-05 | NO-05 | _ | PACE |
| LANG? | 67712/93 | 147 41 | 19.84 | _ | 147.77 | HO-do | NO-05 | ND-0.5 | NO-05 | NO-Q4 | _ | PACE |
| LAN-7 | 10/21/83 | 147.01 | 21.61 | | 144.00 | NO-did | 10-45 | NO-05 | 10-05 | NO-G5 | _ | PACE |
| LAN-7 | 01/21/94 | 147,61 | 20.46 | _ | 147,12 | NO-50 | NO-05 | ND-05 | NO-05 | NO-05 | | PACE |
| OC-1 (d) | 01/21/04 | _ | _ | _ | - | ND-50 | NO-0.5 | NO-04 | NO-05 | NO-05 | | PACE |
| M-7 | 0420/94 | 147,61 | 20.54 | - | 147,67 | NO-50 | NO-05 | 10-05 | NO-04 | NO-05 | 1.5 | PACE |
| 444 | Ø3Ø7#1 | 145.74 | 14.72 | | 146.02 | 2.7 | 710 | 450 | 64 | 310 | | |
| LAW | 06/27/91 | 145.74 | _ | _ | - | 12006 | 3400 | 1100 | 243 | 790 | _ | _ |
| | C#27/91 | 145.74 | _ | - | - | 41 | \$700 | \$200 | 1 300 | 4300 | _ | _ |
| LAN-4 | 12716/81 | 165.74 | _ | _ | | 12 | 900 | 150 | 120 | 250 | _ | _ |
| LAW 8 | 040781 | 145.74 | 12.54 | *** | 153.20 | 15000 | 3600 | 2000 | 410 | 1900 | | _ |
| WY-8 | 07/03/92 | 105,74 | 18.78 | | 144.94 | 72000 | 19000 | 32000 | 3000 | 15000 | _ | ANA |
| LAN-E | 10/06/82 | 165.74 | 20.44 | 0.01 | 146.27 | - | | _ | | _ | | _ |
| LAW-4 | 01/13/93 | 105,74 | 12.67 | 10.0 | 152.84 | | | - | - | _ | _ | |
| W-4 | 04/23/63 | 165,74 | 13.90 | SHEEN | 151.84 | _ | _ | _ | - | | _ | |
| MV4 MV4 | 07/12/93 | 165,74 | 18.30 | SHEEN | 147,44 | _ | _ | _ | _ | - | | _ |
| LAW-4 | 10/21/93 | 165.74 185.74 | 21.91 | 0.95 | 144.54 | _ | | _ | - | _ | _ | _ |
| MAY 4 | 04/20/94 | 105.74 | 18 12 | 0.03 | 1464 | | | - | | _ | - | _ |
| | | | 19.20 | 0.03 | 146,46 | 28000 | 1700 | 4100 | 960 | 4000 | 1.1 | PACE |
| LANGE LANGE | 03/07/91 06/27/91 | 166.20 166.20 | 16.79 | _ | 149.41 | 7.1 | 220 | . 4 | 2.4 | 2400 | _ | _ |
| LAV-0 | 00/27/91 | 104.20 | _ | . — | | 3600 | \$20 | 400 | es | 310 | - | ~- |
| MY | 12/14/11 | 164.20 | _ | | - | 3.2 | 720 | 150 | 60 | 140 | | _ |
| MAN-A | | | | - | . | NO | 2.5 | 1.1 | 0.3 | 5.4 | - | _ |
| MIT-E LAVI-e | 0401/81 | 195.20 | 12.99 | ~ | 153.31 | 12000 | 2000 | 2600 | 360 | 1800 | _ | _ |
| M-0 | 677XXX932 | 166.20 | 16.60 | | 147,31 | \$700 | 17000 | 840 | 230 | #00 | | ANA |
| WY4 | 10/05/92 01/13/93 | 104.20 | 20.52 | _ | 145.80 | 1400 | 440 | 17 | 14 | 100 | - | ANA |
| ∞.i⊔ | 61/13/83 | 186.20 | 12.92 | _ | 1\$3.20 | 11000 | 1200 | 1700 | 340 | 1400 | _ | PACE |
| ~ 1□ | 942343 | 106.20 | 14.08 | | 610 | 11000 | 1200 | 1600 | 330 | 1300 | _ | PACE |
| AYO | 07/1293 | 106.20 | 18.44 | _ | 152.12 | 24000 | 2800 | 4500 | 730 | 3400 | _ | PACE |
| ∞: μ | 07/12/93 | - | | *** | 147.74 | 13000 | 1400 | 1100 | 260 | 1400 | _ | PACE |
| ₩ | 10/21/83 | 165,20 | | _ | | 10000 | 1200 | 900 | 310 | 1200 | _ | PACE |
| AY-0 | 01/21/84 | 164.20 | 21.81 | C as | 145.06 | _ | _ | _ | _ | •• | - | _ |
| AY-0 | 04/2014 | | 19.26 | - | 144.92 | - | _ | | | - | _ | _ |
| X I | | 164,20 | 19.72 | - | \$46.40 | 40000 | 2500 | 8800 | 1300 | 7900 | 17 | PACE |
| ~~: (G | 04/20/94 | _ | _ | | | 45000 | 2700 | 5400 | 1200 | 8200 | | PACE |

Source: Alisto, May 25, 1994

Table C-12 Page 3 of 4

25 May 4

TABLE 1 - BLANDRY OF PESULTS OF OROLHOMATER SAMPLING BP OL COMPANY SERVICE STATIONING, 11132 1 2011 SCHAYE, BUG ONLAND, CHUFOFNAY

AURTO PROJECT NO. 10-004

| eu D | DATE OF SAMPUNOY SAMP | ERADOKH FH4 | DEPTH TO | PRODUCT THORIESE? First | GROUNOWATER BLEVATION M FHM | TPHQ | To be the | T | E (Fr ch) | X Expli | ∞ } r>= 1 | 1/48 |
|--------------------|--|----------------------|----------------|-------------------------------|-----------------------------------|------------|---|-----------------|----------------------|---------------|----------------------------|----------|
| AY-10 | CO/07/91 | 167.01 | 18.00 | _ | 148.92 | 2 1.0 | 120 | 110 | 22 | 200 | _ | _ |
| A4F-10 . | 06/27/81 | 147,01 | _ | _ | _ | 12000 | 7300 | 500 | 150 | 300 | _ | _ |
| AV-10 | ON/277811 * | 167,01 | _ | | - | ₽. | 12000 | 7200 | 1403 | 4600 | _ | _ |
| AYF-30 | 12/10/11 | 167.01 | | _ | | 1.3 | 2500 | 120 | 34 | 79 | - | _ |
| AH-10 | 010191 | 167,61 | 13,52 | ; - | 183.00 | 10 | , NO | ю | ю | ю | - | _ |
| white . | WALL BY | 167.01 | 11,12 | ´ . . | FN1.AAT | · 3400 | £100 | 1300 | 140 | 890 | - | w |
| AYF-10 AYF-14 : | . 10/05/10 . 01/13/10 | 7 167,01 147,01 | 21.32 14.43 | 9.19 | 146.23 · | · | | - | - | - | - | _ |
| | | • | | | | - | | | - | | _ | - |
| N+10 | 64/23/93 | 167.01 | 15.24 | . 9.06 | 161,50 ** | = | ., | | _ | _ | - | _ |
| AY-10 '. AY-10 | 1071293 - | 147.01 1 147.01 | 11.78 22.90 | 5. 18.65 0.00 | 147.67 | | | | | _ | _ | _ |
| M-10 | ensine" | 167.01 | 20.25 | 8.04 | 1463 1461 | - | , - | _ | - | - | | - |
| AY-10 | 042094 Jug | | 20.74 | - A | 144.27 | 10000 | 12000 | 24000 | 3400 | 14000 | | PAC |
| | | 10,24 | ,,,,,, | | , 1442 | • | 3 | 2000 | 3400 | 1400 | 1.0 | PAC |
| Ĥ¥1 🍇 | 97XX21XX | 100.01 | | (*121 [*]), | \$\$. | <u> </u> | | _ | ,== | _ | | |
| FWF1.2 | | 14L01 | : | 0.01 | | _ | 3 | _ | | _ | _ | _ |
| PW-1 | . COOTAN T | . 10L01 | 17.42 | # KEEN | 160.30 | _ | ~- | _ | ·. | | _ | _ |
| PY1 | . 04/27/01 | 186.01 | | 0.04 | - | · <u> </u> | · <u> </u> | _ | _ | _ | _ | _ |
| F#41 | 09/27/81 | 104.01 | _ | 0.02 | ` | _ | 1 | _ | _ | | _ | _ |
| PM-1 " | STATEST . | 100.01 | _ | 0.02 | :• - | - | _ | _ | - | _ | _ | _ |
| PW-1 | . OUDIAN . | 144.01 | 14.10 | 0.11 | 183.00 | | " – ' | | _ | _ | _ | _ |
| PW-1 | , 07/03/12 <u>}</u> | 104.01 | 20.04 | ###EEN | 147.36 | - | _ | _ | _ | - | | _ |
| RY41 5. | _\1.1005/92 | <u>:</u> 161.01 | 22.34 | 0.08 | 144.73 | _ | y = | | - | _ | _ | _ |
| Fr+1 | - OVISABLE - | ₹ 144.01 | , 16.54 | 0.06 | 151,44 | | • • • • | _ | _ | | | _ |
| PY-1 | ¥.042240 € | \$ 101.01 | 16.17 | - 0.11 | 1\$1,96 , ", 2 | | · - · | - | - | _ | _ | - |
| PW-1 | . 03/13/33 A. | 101.01 | 20,18 | 0.04 | \$47.86 ° | : | · — | _ | | _ | _ | _ |
| PM-1 PM-1 | > 10/21/83 | 10L01 -< 10L01 | 25.70 | 8.54 | 142.73 | | _ | _ | _ | _ | - | - |
| PM4 | 01/21/M | * 100.01 * 100.01 | 21.24 32.20 | 8.40 | 147.DT | ~ | - | _ | _ | - | | - |
| - | | THE DI | 32,33 | - | 136.21 | | - | | - | _ | - | - |
| OCE H | 1005/12 | • — | _ | | ٠ | Юаю | NO-GE | NO-0.5 | NO-0.5 | NO-G4 | _ | * |
| CCS H | | · - | - | | _ | , NO-56 | HO-0.6 | NO-0.5 | NO-0.5 | NO-01 | | Pr. |
| OCE H | | _ | - | - | ·- · | HO-da | ND-0.5 | NO-O.E | NO-Q.E | NO-O. | - | PA |
| œe i | 07/12/93 | - | _ | | – ' | HQ-d0 | ND-0.5 | MO-OS | NO-O. | TO-OH | _ | PA |
| oce H | 10/21/83 | _ | | | - | Ю-60 | NO-as | NO-OS | NO-OX | NO-41 | - | PA |
| 652 H | 01/21/04 | | = | _ | = | NO-60 | ND-6.5 NO-6.5 | 21 NO-05 | HD-0.5 NO-0.5 | 2.1 NO-0.5 | - | PA PA |
| V2BREVV | | | | | | HOTES | | | ACAUS | - NO-ELS | | r, |
| PHG I | Benzene | ydrocerbons as ge | echne | | | H | Cooling allocations 0.01 foot relative t | | | | | |
| [| Tokura | | | | | | _ | | | | | |
| ì | Etrybergene Test a lance | | | | | M | Occurdends also | | | | | |
| ò | Total sylvenes Dissolved oxygen | | | | | | specific growing of | 0.75 for free ; | product | | | |
| .υ α• | Parts per billion | • | | | | | | | | | | |
| (| Perts per million | | | | | Ħ | Blind duploms, | | | | | |
| | | Anth-Incolorations | | | | | | | | | | |
| o | | ve recorded detects | | | | 14 | Not surroted that | | red | | | |
| ν. | Anematic inc. | | | | | | with passed or | * *** | | | | |
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| PACE | Page Inc. | | | | | (+) | Travel Next. | | | | | |

25. **Lary 9**

PAGE 4

TABLE 2 - PRODUCT REMOVAL STATUS

BP OIL COMPANY SERVICE STATION NO. 11132 3201 35TH STREET, OMILAND, CAUFORNIA

ALISTO PROJECT NO. 10-024

| ID WELL | DATE | PRODUCT REMOVED (Gallone) | PRODUCT REMOVED CUMULATIVE (Gallone) |
|------------|------------------------|--|--|
| MW-2 | 09/29/93 | 0,10 | 0.10 |
| W | 10/05/93 | 0.10 | 0.20 |
| | 10/14/93 | 0,10 | 0.30 |
| | 10/20/93 | 0.25 | 0.55 |
| | 11/02/93 | 0.10 | 0.65 |
| | 12/07/93 | 0.05 | 0.70 |
| | 12/17/93 | <0.01 | 0.70 |
| | 12/23/93 | 0.3 | 1.00 |
| | 01/12/94 | 0.05 | 1,05 1,08 |
| | 02/02/94 | 0.01 0.01 | 1,07 |
| | 02/11/94 | <0.01 | 1.07 |
| | 03/18/94 | | |
| MW-8 | 11/02/93 11/10/93 ½ | 0.25 0.10 | 0.25 0.35 |
| | | 0.10 | 0.45 |
| | 11/16/93 | Q.10 | . 0.55 |
| | 11/30/93 | < 0.10 | € 0.65 |
| | 12/17/23 | (- 0.01) | _# 0.65 |
| * . | 12/23/03 | <0.01 ⁴ | 0.65 |
| • | 01/12/94 | (0.01) | 0.66 |
| | .02/02/94 | , 0.05° | 0.71 |
| | 02/11/94 | 0.06 | • 0.79 |
| | 02/18/94 | <0.01` | , 0.79 |
| | 03/18/94 | 0.01 | 0.80 |
| | 04/27/04 | -0.01 | ¥0.80 |
| . '1 | 200 | 0.10 | 4 0.10 |
| MW-9 | 11/02/93 | 0.10 | 0.20 |
| | 11/10/93 | ·· 0.10 | 0.30 |
| | 11/16/93 12/23/93 | <0.01 | 0.30 |
| | 01/12/94 | 0.01 | ¹ .0.31 |
| | 01/20/93 | 0.05 | {°0.3€ |
| | 02/02/94 | (0.05 | 0.41 |
| | 02/11/94 | .0.01 ⋅ , | (0,44 |
| | 02/18/94 | ₹0.01 | 0.4 |
| | 03/18/94 | 0.10 | .0.50 |
| MW-10 | 09/07/93 | , à 10., | -0.10 |
| | 09/14/93 | 0.10 | 0.29 0.39 |
| | 09/29/93 | 0.10 | 1.9 |
| | 10/05/03 | , 1.00, 2.10 | ^\dio |
| | 10/14/93 | 1.00 | 1 80 |
| | 10/20/93 10/27/93 | 21.00 n | 1/80 |
| | 11/02/93 | £0.30 ⁷⁷ | ×6.3 |
| | 11/10/93 | F 0.20 y | 1.00 |
| | 11/18/93) | 0.10 0.10 | 0.0 |
| | 11/23/93 | 3.0,105 | 6.7 |
| | 11/30/93 | 0.30 | ∳7Ω 70 |
| | 12/07/93 | *0.20 J | . 7.2 7.5 |
| | 12/17/93 | (10.30) 30.01d | €7,5 €7,5 |
| | 12/23/03 | | 35.45 |
| | 01/04/94 | 310 O4: | 207.5 |
| | 01/12/94 | 3 0 20 2 | 147 a |
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| | m2/18/94 | 1020 | £7.8 |
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ATTACHMENT D

BORING LOGS AND LABORATORY REPORT FROM SUPPLEMENTAL ASSESSMENT WORK

| EMICON | EX | PLC | RA | D LC | | | | INC | Ŕ | PROJECT NO. 0152-044.02 DATE 11/22/94 BORING NO. CLIENT TOSCO 11132 HP-1 Sheet 1 LOGGED BY D. Galasso of Z |
|---------------------------------------|-------|--------------------|------------------|--|----------------|----------------|-----|---------------------------------------|---|---|
| Field location SUTTER ST. Ground Elev | 8 | , , { | ervive | śtī. • _ di: | العم - n | ~ 21. / | Jan | 7 | 2 | Drilling Co. Precision Drilling model XD 1 Drilling method CFT Hole dia. 23/9" Boring completion data Grouted hole to surface adding asphalt patch to top on boring |
| Pocket | رگي ي | Type of Sampler | Recovery (ft/ft) | Sample Number and Container Type | Depth | Sampled | Γ_ | Soll/Rock Symbol | Ľ. | Depth to ▽ Depth to ▼ Time Time Date Description |
| 0.6 | | | 05/3 | 9.5 | 13 | | | G G G G G G G G G G G G G G G G G G G | 0.00.00.00.00.00.00.00.00.00.00.00.00.0 | 5% low-plasticity fires, 35% fine to coarse sand (1:2:3), 60% fire gravel, demp, no odor (very little to look at) 1: 1th olv. bra (2:54, 5/4) 5% low-plasticity fires, 40% fire to coarse sand (1:2:3), 55% of fire break-up, dump, no odor |

| , | | | | | | | | | | | |
|----------|---------------------------------|--|--|--------------------|--|--------------|---------------------|--------------|---------------------|-------------|--|
| | | EX | | | D LO | | | | INC | 3 | PROJECT No. 0952 - 044.02 DATE 11/22/94 BORING No. CLIENT TOSCO 11/32 HP-L LOCATION 3201 35TRSt., Oakland, CA Sheet 2 |
| FWG | OU | • | | | | | | | | | LOGGED BY O. Galasso of Z |
| Field | location | of borin | ng: | | | | | | | | Drilling Co. Precision Drilling model XDI Drilling method CPT Hole dia. 23/8 |
| 1 | | | | | | | | | | | Boring completion data Growted hale to surface |
| Groun | ıd Elev. | | se | وم ع | , Datu | m | | | | | Boring completion data Growten how to surtace adding asphall paten to top of boring |
| | | 6 | |] | _ 2 | | } | | | T | Depth to ▽ Depth to ▼ |
| 0 | Pocket Penetrometer (TSF) | Blows/6 in. and/or Pressure (PSI) | ₹.6 | } -\$ | Sample Number and Container Type | -F | इङ् | Well Detail | Soll/Rock Symbol | Graphic Log | Time Time |
| V | 350 | mg/ | Type of Sampler | Recovery (#/ft) | 불출출 | Depth | Sampled Interval | 4 | 景美 | 훒 | Date Date |
| M | - E | 8 5 | F-33 | 8 | 오늘 | - | \sigma = | ≆ | ဖြ | S S | DESCRIPTION |
| | | | | | | | $+\tau$ | | SM | 1 61 | the state of the s |
| 0.6 | ļ | | | | 20-2 | 1 | ₩ | / | 21 | 1141 | Silty Sand (SM) continued |
| | | | | <u> </u> | <u> </u> | 21- | ↓ | / | 1 | | |
| <u>i</u> | | | | | <u> </u> | ļ-' | \Box | [/ | 1 | | |
| Ī | l | | | | <u> </u> | | \square | / | | | (14) (CL) olive (54) 5/3) |
| | | | | 1/3 | l | 22 | \square | Ε. | | - | 95 % high-plast. Frog. 5% fine sand |
| 1.3 | | | | | 225- | | NL | 7 / | 100 | /// | orange nothing iron- staining gray veining, damps |
| | | | | | | 23- | ΓV | | | | Refusal at 23.0' "Ber |
| <u> </u> | | | | | | 1 | | 1 | | | Boring terminated |
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Form F-9

Reviewed by:

Date:

Rev. 10/90



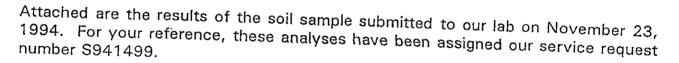
December 6, 1994

Service Request No: <u>S941499</u>

Mike Noll EMCON Northwest, Inc. 18912 N. Creek Parkway Bothell, WA 98011

Re: TOSCO # 11132 / 0952-044.02

Dear Mr. Noll:



All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted:

Keoni A. Murphy

COLUMBIA ANALYTICAL SERVICES, INC.

KAM/ajb

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:

EMCON Associates

Project:

TOSCO # 11132 / 0952-044.02

Sample Matrix:

Soil

Service Request: S941499

Date Collected: 11/22/94

Date Received: 11/23/94
Date Extracted: 11/23/94

Date Analyzed: 12/1,2/94

Hydrocarbon Scan
California DHS LUFT Method
Units: mg/Kg (ppm)
As Received Basis

| | Analyte: Method Reporting Limit: | Mineral Spirits 1 | Jet Fuel l | Kerosene 1 | TPH as Diesel | Hydraulic Oil 5 |
|-----------------------------------|-------------------------------------|-------------------------|----------------------|---------------|------------------|--------------------|
| Sample Name | Lab Code | | | | | |
| 11132-HP1-S-4-4.5 Method Blank | S941499-001 S941123-SB | ND ND | ND ND | ND ND | ND ND | 120 ND |

Approved By

Date:

Page 3 of 6

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:

EMCON Associates

Project:

TOSCO # 11132 / 0952-044.02

Sample Matrix: Soil

Service Request: \$941499 Date Collected: 11/22/94

Date Received: 11/23/94

Date Extracted: 11/23/94

Date Analyzed: 12/1,2/94

Surrogate Recovery Summary Hydrocarbon Scan California DHS LUFT Method

| Sample Name | Lab Code | Percent Recovery p-Terphenyl |
|-------------------|-------------|---------------------------------|
| 11132-HP1-S-4-4.5 | S941499-001 | 72 |
| Method Blank | S941123-SB | 59 |

CAS Acceptance Limits: 41-140

SUR 1/062994

Page 5 of 6



CHAIN JF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

| 1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408)437-9356 | | | | | | | | | | | | DAT | E_1/ | 23 | 191 | 4 | _ | PAGĘ | OF | |
|---|----------------------------|--|--|---------------------------------------|--|--------|----------|--|---------------------------------------|---|---|---------------------------------------|-------------|------------|-----|-----|-----------|------|---------|--|
| PROJECT NAME TOSCO 11132 :0952-044.02 | | | ANALYSIS REQUESTED | | | | | | | | | | | | | | | | | |
| PROJECT MINGR Lyn Gallaghor | | | | | | | | | | | | | 7 | 7 7 | | | | | | |
| COMPANY/ADDRESS EMCON - San Jose | | | | | | | | | | | | | | | | | ' / / / / | | | |
| | | | 200 | | 386 | | | 130H-418.1 Ol and Good | Oil and Grease Method Metas (1013) | 15 (See 18 0) (See 18 18 18 18 18 18 18 18 18 18 18 18 18 | 8 | | \$ 8 8 8 | | | | // | | / / | |
| PHONE 408)453-7300 | | | Consultation of the Consul | | \$ 50 | | | | | | 82 | 3/2 | | 8 / | | | / / | // | | |
| SAMPLERS SIGNATURE Daniel Colasse | | | | | | Eles | | | | | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 8 3/ | | \$0.00 / | / / | / / | | | | |
| SAMPLE LAB SAMPLE I.D. MATRIX | NUMBER OF CONTAINERS | 13 8 | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | \\ \display \} \\ \display \} \\ \display \} \\ \display \ \din \display \ \display \ \display \ \display \ \display \ \ | | 8/3 3/4: | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \$ 2 | (S) | (d) (d) | | | / | / / | REMARKS | |
| 11132-4P1-5-451/22/94 / Soil | 1 | | | | \geq | \geq | <u> </u> | | | | | | | | | | | | | |
| 11132-HP1-5-10 2 50il | ' | | | | | | | | <u> </u> | | | | | | | | | | Hold | |
| 11137-HP1-5-115 3 Soil | 1 | | | | | | | | | | | | | | | | | | Hold | |
| 11132-482-5-1855 4 Soil | 1 | | | | | | | | | | | | | | | | | | Hold | |
| 11132-HP1-5-203 5 Soil | l | | | | | | | | | | | | | | | | | | Hold | |
| 11132-HP1-5-23 V 6 Soil | 1 | | | | | | | | | | | | | | | | | | Hold | |
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| RELINQUISHED BY: RECEIVED BY: TURNAL | ROUNE | REQ! | UREM | NTS: | S: REPORTREQUIREMENTS INVOICE INFORMATION: SAMPLE RECEIPT: | | | | | | | PLE RECEIPT: | | | | | | | | |
| | | | 72. hr. 48 hr 5 day I. Routine Report P.O. # Shipping VIA: | | | | | | | | | | | | | | | | | |
| Priorited Name | | | - 10-15 working days) II. Report (includes DUP,MS, MSD, as required, may be charged as samples) Bill to: Condition: | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| ENCON ASSOC. CAS SJ - Pro | | | | | | | | | | | | | | | | | | | | |
| 11 - 17 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | | AX Preliminary Results III. Data Validation Report (includes All Raw Data) | | | | | | | | | | | | | | | | | | |
| 1104003100 | | | Report Date | | | | | | | | | | | | | | | | | |
| | 72 hr. turn around please, | | | | | | | | | | | | | | | | | | | |
| Signature Signature | / | <u> </u> | ĄΓ. | • | 10 | 1 1/ | વા | OU | r_D | | P | ٠ | ત એ⊀ | <u> </u> | | | | | | |
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