R.T. NAHAS COMPANY
REAL ESTATE DEVELOPERS AND INVESTORS

20600 PATIO DRIVE
CASTRO VALLEY, CALIFORNIA 94546
TELEPHONE (510) 538-9600
FAX (510) 881-7618

November 18, 1993

Mr. Scott Seery
Alameda County Health Care Services
80 Swan Way
Oakland, CA 94621

RE: Frank Tien's Unocal Station
20405 Redwood Road
Castro Valley, CA

Dear Scott:

Enclosed is the 13th Quarterly Groundwater Monitoring Report. As you can see, it is very similar to many that have been sent before.

Along with the request that BSK is making to reduce the number of monitoring times, I would like to stop monitoring well #7 altogether. Well #7 contains a miniscule amount of xylene and no other gasoline components. However, it still contains perc. I did not put it there but I am having to find a way to dispose of the water because I found it by accident. Perhaps you have another recommendation. I would very much appreciate any input.

We will proceed with the hydro-punching and, after receiving those results, maybe we can come to some conclusion.

Sincerely,

Randall E. Nahas

REN/hrs
Enclosure

BSK & ASSOCIATES

GEOTECHNICAL CONSULTANTS, INC.

BSK JOB NO. P92057.3

THIRTEENTH QUARTERLY GROUNDWATER MONITORING REPORT UNOCAL 76 SERVICE STATION 20405 AND 20629 REDWOOD ROAD CASTRO VALLEY, CALIFORNIA NOVEMBER 1993

BSK & Associates

BSK & Associates
1181 Quarry Lane
Building 300
Pleasanton, CA 94566
(510) 462-4000
(510) 462-6283 FAX

November 16, 1993

BSK JOB P92057.3

R. T. Nahas Company/Eden Managements
20630 Patio Drive
Castro Valley, CA 94546

Subject: Thirteenth Quarterly Groundwater Monitoring Report
Unocal 76 Service Station
20405 and 20629 Redwood Road
Castro Valley, California

Gentlemen:

As requested and authorized, we have performed groundwater monitoring well quarterly sampling at the above-referenced facility. This quarterly report presents the project background, groundwater data obtained during this sampling event, conclusions based on this quarter's data, and recommendations for further action.

BACKGROUND

BSK & Associates installed three groundwater monitoring wells (MW-2, MW-3 and MW-4) in December 1989 at the Unocal 76 Service Station located at 20405 Redwood Road, Castro Valley, California. The service station location is shown on Figure 1, Vicinity Map. The monitoring facilities were installed in order to comply with the California UST Monitoring requirements of Alternative 6, Subchapter 16, Title 23, California Code of Regulations. The results of well installations, soil sampling and chemical testing of the soil and water samples were summarized in our Report P89134, dated February 5, 1990. The groundwater monitoring well locations are shown on Figure 2, Site Plan.

BSK performed an assessment of the lateral extent of shallow soil contamination in April 1991 (see our Report P90165, dated April 1991). During the investigation, shallow soil contamination was observed to occur from the pump islands to the south property boundary, and within the east and west property boundaries.

The seventh quarterly monitoring report included the results of additional lateral contamination characterization in the off-site area to the south (BSK Report P92057.3, dated May 29, 1992). This report indicated the extension of a groundwater contaminant plume south of the site, between Wells MW-6 and MW-5, but north of MW-7. Wells MW-5, MW-6 and MW-7 were installed during this investigation.

In our Special Sampling Report of December 23, 1992, BSK determined that concentrations of Total Petroleum Hydrocarbons as Gasoline (TPHg) at MW-7 were related to Perchloroethene contamination, possibly emanating from a nearby dry cleaner.

Review of Subsurface Conditions

The site subsurface soil conditions, as exposed by Borings MW-1A, MW-2, MW-3, and MW-4 of our previous investigation (P89134), consist primarily of silty and sandy clays. Four to five feet of black organic-rich silty clay fill are found immediately below the ground surface, followed by three to five feet of greenish-gray sandy/silty clay native material. In the western portion of the study area, the greenish clay is underlain by seven to eleven feet of yellow-brown sandy clay, grading to a clayey sand with depth. In the eastern portion of the tank area, the sandy clay and clayey sand are split by a six foot layer of silty clay. Light brown silty clay was encountered in each boring from 17 and 24 feet in depth, and continuing to the final depth explored. It is apparent from the boring logs that this lowermost clay layer slopes to the northeast.

In the areas of Wells MW-5 through MW-7, subsurface conditions comprised 10 to 20 feet of dark gray to yellow-gray silty clay, the upper 10 feet of which may be fill. The silty clay is underlain by 4 to 5 feet of orange-brown clayey silt to silty sand. This unit often contains fine, wet to saturated pores. At fifteen to twenty feet in depth, a silty to sandy grayish clay is encountered. This clay is very stiff to hard, often porous, and contains thin saturated lenses of fine sand and silt. At approximately 25 feet, clayey sand to sand was encountered. This unit is soft to firm and contains many fine lenses of sand, silt, and clay. The sand and silt are typically saturated.

Groundwater within the site has been encountered at both 13 to 15 feet and 19 to 23 feet. The lower water levels occur in clayey sands along the east and west boundaries of the site, and likely in its northern one-third. This water horizon is considered the first primary aquifer. A shallow "perched" water is found in clayey sand at 13 to 15 feet, occurring throughout the south-central portion of the site. Hydrostatic pressure in both units results in a piezometric surface 10 to 12 feet below ground surface. The similar piezometric surface suggests that the "perched" water is connected to the underlying aquifer. Additional evidence for this connection is the lack of a confining layer below the upper clayey sand in several borings in the south-central portion of the site.

Groundwater flow direction at the site has been towards the southwest since December 1989. Gradient has varied at the site from 0.4% to 2.0%. Electrical conductivity is a relatively low 500 to 1,000 micromhos, and pH has generally been slightly acidic. Seasonal precipitation appears to result in more southerly flow, a flatter gradient, and 1 to 2 feet higher water levels in early spring.

During soil boring investigations, soil contamination by petroleum hydrocarbons was observed olfactorily and by Photo-Ionization Detector (PID) in 13 borings in the project area. Hydrocarbons were detected at depths ranging from just below the asphalt pavement to 17 feet (the greatest depth of several borings in the area of greatest contamination). PID values reached 3,600 ppm total

ionizable hydrocarbons in soil. The greatest concentrations were observed between 10 feet in depth and first encountered groundwater (where encountered). It was noted that contamination was not always accompanied by soil staining, and volatilization was rapid upon exposure to air.

Groundwater contamination has been encountered at the site in samples obtained quarterly from Wells MW-2 and MW-3, and in Well MW-7. Wells MW-2 and MW-3 are adjacent to, and up and cross-gradient to what is believed to be the contaminant source area. Well MW-7 is down gradient from the source area; however, it appears that contamination encountered in Well MW-7 is not related to the Unocal contaminant plume.

THIRTEENTH QUARTERLY MONITORING ACTIVITIES

General

Quarterly monitoring of groundwater monitoring wells MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7 was performed on October 19, 1993. Field procedures and observations are provided in the following text and figures.

Field Work

Wells MW-3, MW-4, MW-5 and MW-6 were purged by electric submersible pump, wells MW-2 and MW-7 were purged by bailer. Three to four well casing volumes were removed from each well. Purge effluent was field monitored for pH, Temperature and Conductivity during purging to assess the influx of fresh formation water into the well. Purged water was transferred to a 55-gallon DOT-approved steel drum for holding. Each drum was labeled according to its contents, content source, and date of accumulation.

Prior to purging, the depth to water in each well was measured using a Solinst electric sounding tape, marked in twentieths of a foot. The water depth was then interpolated to the 0.01 foot increment from the tape. Each well was subsequently examined for floating and sinking immiscible product layers and sheen, using a clear bailer having dual check valves for point-source sampling. Groundwater flow direction and gradient data were determined from the depth measurements, and are presented in Figure 3, Potentiometric Surface Map.

Upon purge completion, each well was again measured to confirm a minimum of 80% well recovery prior to sampling. Water sampling was then performed with an electric submersible pump or Teflon® point-source bailer. Sampling for contaminants was performed in the order of contaminant volatility, with the most volatile constituents sampled first. Each water sample obtained for a specific contaminant, or contaminants, was decanted into the appropriate container with preservative (as necessary), sealed, labeled and refrigerated for delivery to our State-certified laboratory.

A Well Field Log was prepared for each well sampled, recording the water depth, well volume, pH, water temperature, conductivity and other data. The Well Field Logs are presented as Figures 4.1 through 4.6.

Site Hydrology

Groundwater measurements were made of the six existing wells on October 19, 1993 in order to assess the flow direction and gradient in the area. On this date, groundwater flow was generally south. The gradient was approximately 0.5 percent, slightly flatter than the previous measurement. The flow direction and gradient are similar to the previous quarter. Groundwater levels have fallen 0.45 to 0.51 feet since July 1, 1993. Groundwater flow direction and gradient are shown on Figure 3, Potentiometric Surface Map.

Temperature and pH data are presented in the Well Field Logs, Figures 4.1 through 4.6; little significant change has occurred in these parameters.

The changes in water level since July 1993 likely reflect seasonal fluctuation in precipitation inflow to the groundwater basin.

Chemical Analyses

Water samples obtained from Wells MW-2, MW-3, MW-5 and MW-7 were analyzed for constituents related to gasoline, since the wells are located adjacent to and downgradient from two 10,000 gallon underground gasoline tanks. The samples were tested for the following contaminants: Total Petroleum Hydrocarbons as Gasoline (TPHg) and Benzene, Toluene, Ethylbenzene and Xylene (BTEX). Well MW-4 is adjacent to a 500-gallon waste oil tank, and was tested for Total & Hydrocarbon Oil & Grease, Total Petroleum Hydrocarbons as Diesel (TPHd), TPHg, and BTEX. At the request of the Alameda County Department of Environmental Health (ACDEH), Wells MW-2 and MW-4 were sampled this quarter for Volatile Halocarbons by EPA Method 601 (these wells had been previously sampled for Method 601 constituents in BSK's April 1993 quarterly report).

The contaminants tested for are those specified by the Tri-Regional Water Quality Control Board Recommendations of August 10, 1990, and listed in the ACDEH letter, dated April 26, 1990 to R.T. Nahas Co. Current and former analysis results are presented for comparison in the following tables. The Chemical Test Data Sheets are presented in Appendix A, Figures A-1 through A-10. The Project Chain-of-Custody record is shown in Figure A-11.

WATER ANALYSES - BTEX

TABLE 1

(Results in µg/l)

Sample Date	Sample Location	Benzene (1)*	Toluene (100)+	Xylene (1750)*	Ethylbenzene (680)*
August 1990	Well MW-2	21	3.9	28	7.2
	Well MW-3	55	3.8	59	20
	Well MW-4	ND	ND	ND	ND
January 1991	Well MW-2	50	33	110	22
	Well MW-3	29	3.3	34	9.7
April 1991	Well MW-2	640	520	790	170
	Well MW-3	450	270	760	150
	Well MW-4	ND	ND	ND	ND
July 1991	Well MW-2	14	1	17	8
	Well MW-3	14	14	33	8
October 1991	Well MW-2	2.9	ND	6	2.5
	Well MW-3	ND	ND	ND	ND
	Well MW-4	ND	ND	ND	ND
January 1992	Well MW-2	480	870	860	160
	Well MW-3	4	10	8	2
April 1992	Well MW-2	70	0.3	7.0	15
	Well MW-3	1.0	0.4	0.9	ND
	Well MW-4	ND	ND	ND	ND
	Well MW-5	ND	ND	ND	ND
	Well MW-6	ND	0.3	ND	ND
	Well MW-7	0.4	0.3	0.9	0.3
July 1992	Well MW-2	10	ND	2.3	0.6
	Well MW-3	1.3	0.4	1.3	ND
	Well MW-5	ND	ND	ND	ND
	Well MW-6	ND	ND	ND	ND
	Well MW-7	ND	ND	ND	ND
October 1992	Well MW-2	2.3	ND	3.0	2.3
	Well MW-3	2.1	ND	0.3	ND
	Well MW-4	ND	ND	ND	ND
	Well MW-5	ND	0.4	ND	ND
	Well MW-6	ND	ND	ND	ND
	Well MW-7	ND	ND	ND	ND

WATER ANALYSES - BTEX

TABLE 1 (Continued)

(Results in µg/l)

Sampling Date	Sample Location	Benzene (1)*	Toluene (100)+	Xylene (1750)*	Ethylbenzene (680)*
January 1993	Well MW-2	11	5.1	6.3	1.4
	Well MW-3	1.2	1.0	4.1	0.6
	Well MW-4	ND	ND	ND	ND
	Well MW-5	ND	ND	ND	ND
	Well MW-6	ND	ND	ND	ND
	Well MW-7	ND	ND	ND	ND
March 1993	Well MW-2	110	32	28	67
	Well MW-3	32	0.9	13	64
	Well MW-4	ND	ND	ND	ND
	Well MW-5	ND	ND	ND	ND
	Well MW-6	ND	ND	ND	ND
	Well MW-7	ND	ND	ND	ND
July 1993	Well MW-2	17	1.1	12	6.0
	Well MW-3	24	11	82	14
	Well MW-4	ND	ND	ND	ND
	Well MW-5	ND	ND	ND	ND
	Well MW-6	ND	ND	ND	ND
	Well MW-7	ND	ND	ND	ND
October 1993	Well MW-2	4.0	ND	3.1	2.3
	Well MW-3	5.0	ND	1.2	0.6
	Well MW-4	0.4	ND	0.4	ND
	Well MW-5	ND	ND	ND	ND
	Well MW-6	ND	ND	ND	ND
	Well MW-7	ND	ND	0.7	ND

ND - None Detected
* - DHS: Primary Drinking Water Standard (3/89)
\+ - DHS: Action Level

WATER ANALYSES - TPH and OIL & GREASE

TABLE 2

(Results in µg/l)

Sampling Date	Sample Location	TPH as Gasoline (100)*	TPH as Diesel (100)*	Oil and Grease Total Hydrocarbon (100*)	
August 1990	Well MW-2	180	--	--	--
	Well MW-3	290	--	--	--
	Well MW-4	ND	ND	ND	--
January 1991	Well MW-2	430	--	--	--
	Well MW-3	110	--	--	--
April 1991	Well MW-2	4800	--	--	--
	Well MW-3	3600	--	--	--
	Well MW-4	ND	ND	ND	--
July 1991	Well MW-2	220	--	--	--
	Well MW-3	220	--	--	--
October 1991	Well MW-2	170	--	--	--
	Well MW-3	ND	ND	ND	--
	Well MW-4	ND	ND	ND	--
January 1992	Well MW-2	5200	--	--	--
	Well MW-3	60	--	--	--
April 1992	Well MW-2	300	--	--	--
	Well MW-3	ND	--	ND	--
	Well MW-4	ND	ND	ND	--
	Well MW-5	ND	--	--	--
	Well MW-6	ND	--	--	--
	Well MW-7	1300	--	--	--
July 1992	Well MW-2	84	--	--	--
	Well MW-3	ND	--	--	--
	Well MW-5	ND	--	--	--
	Well MW-6	ND	--	--	--
	Well MW-7	830	--	--	--

WATER ANALYSES - TPH and OIL & GREASE

TABLE 2 (Continued)

(Results in µg/l)

Sample Date	Sample Location	TPH as Gasoline (100)*	TPH as Diesel (100)*	Oil & Grease, Total (100)*	Oil & Grease, Hydrocarbon (100)*
October 1992	Well MW-2	ND	--	--	--
	Well MW-3	ND	--	--	--
	Well MW-4	ND	120	ND	--
	Well MW-5	ND	--	--	--
	Well MW-6	ND	--	--	--
	Well MW-7	3900	--	--	--
January 1993	Well MW-2	170	--	--	--
	Well MW-3	ND	--	--	--
	Well MW-4	ND	ND	ND	--
	Well MW-5	ND	--	--	--
	Well MW-6	ND	--	--	--
	Well MW-7	1900	--	--	--
March 1993	Well MW-2	720	--	--	--
	Well MW-3	330	--	--	--
	Well MW-4	ND	ND	ND	ND
	Well MW-5	ND	--	--	--
	Well MW-6	ND	--	--	--
	Well MW-7	830	--	--	--
July 1993	Well MW-2	220	--	--	--
	Well MW-3	330	--	--	--
	Well MW-4	ND	ND	--	1
	Well MW-5	ND	--	--	--
	Well MW-6	ND	--	--	--
	Well MW-7	680	--	--	--

WATER ANALYSES - TPH and OIL & GREASE

TABLE 2 (Continued)

(Results in µg/l)

Sample Date	Sample Location	TPHg (100*)	TPHd (100*)	Oil & Grease (100*)	
October 1993	Well MW-2	98	--	--	--
	Well MW-3	ND	--	--	--
	Well MW-4	ND	ND	ND	ND
	Well MW-5	ND	--	--	--
	Well MW-6	ND	--	--	--
	Well MW-7	360	--	--	--

-- - Not Tested
ND - None Detected
* - Quantified Action Levels are not provided for these parameters. The amount given is often informally used by regulatory agencies as a threshold value.
1 - Results in mg/l

WATER ANALYSIS - VOLATILE HALOCARBONS

TABLE 3

(Results in µg/l)

Sample Date	Sample Location	Volatile Halocarbons (Action Level-µg/l)*
October 1993	Well MW-2	ND
	Well MW-3	--
	Well MW-4	Tetrachloroethene - 0.7(5.0) Trichloroethene - 0.9(5.0)
	Well MW-5	--
	Well MW-6	--
	Well MW-7	--

ND - None Detected
-- - Not Tested
* - California Department of Health Services Drinking Water Standards, Revised 10/23/91

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

On the basis of our findings to date, an unauthorized motor-fuel release to soil and groundwater has occurred at the site, in the vicinity of the two 10,000-gallon underground gasoline storage tanks.

Contaminant concentrations associated with gasoline have generally decreased in Monitoring Wells MW-2 and MW-3 since the last quarterly sampling event (July 1993); however, Benzene concentrations continue to meet or exceed State and Federal Standards in these wells. **Benzene and Xylene were detected in trace concentrations for the first time since monitoring began in Well MW-4.** The concentrations are below applicable Action Levels. The TPHg concentration measured at Well MW-7 is believed to be related to Perchloroethene contamination, as established in our Special Sampling report, dated December 23, 1992. Xylene was also detected for the first time in this well since April 1992. Total Petroleum Hydrocarbons as Gasoline (TPHg) was detected in Wells MW-2 and MW-7, the concentration in MW-2 is below informal regulatory "flag" levels; the concentration measured in Well MW-7 is believed to represent Perchloroethene and related decay products. No TPHg was detected in Well MW-3 this quarter. Total Petroleum Hydrocarbons as Diesel (TPHd) was not detected in Well MW-4 for the fourth consecutive quarter; Oil and Grease was also not detected this quarter.

The special sampling for Volatile Halocarbons in Wells MW-2 and MW-4 revealed trace concentrations of Tetrachloroethene ("Perc") and Trichloroethene in Well MW-4. The concentrations narrowly exceed detection limits and are within applicable drinking water standards. These chemical concentrations have not been previously detected at Wells MW-2, MW-3 and MW-4 and are considered insignificant at this time.

The southern limit of the gasoline contaminant plume is believed to be located north of Well MW-7, as concluded from the general lack of aromatic hydrocarbons and other gasoline related compounds detected at MW-7 since analyses began in April 1992.

At this time, it appears that an adjoining down-gradient Marshall Steel Cleaners is a possible source for Perchloroethene contamination in groundwater in Well MW-7.

The concentrations of Perchloroethene in groundwater previously detected in Well MW-7 meet toxicity requirements for classification as Hazardous Waste, as defined in California Administrative Code, Title 22, Chapter 11, Article 3.

Recommendations

With respect to the findings of this quarterly sampling, and the conclusions of this report, it is recommended that quarterly groundwater monitoring for gasoline constituents continue for Wells

MW-2, MW-3, MW-6 and MW-7. Bi-annual monitoring for gasoline may be considered appropriate for Wells MW-4, MW-5 and MW-6 with respect to their location to the gasoline plume, groundwater flow directions, and absence of significant contaminant concentrations for seven consecutive quarters.

BSK additionally recommends the further characterization of the Gasoline plume by temporary well-points in the southern one-half of the Nahas property to: 1) Further define the gasoline contaminant plume; 2) Further assess the possible existence of PCE on the Nahas property, and; 3) Provide remedial design information.

Well effluent from MW-7 stored on-site should be considered Hazardous Waste, and stored, labeled and disposed as such, as stipulated by State and Federal Hazardous Waste requirements. For additional information, please refer to BSK's letter to Eden Managements of October 26, 1993.

REPORT DISTRIBUTION

Copies of this report should be submitted to the Alameda County Department of Environmental Health for their review. We are providing you with extra copies for this purpose. We understand that copies of the report may be forwarded by ACEH to the Regional Water Quality Control Board in Oakland for their review.

Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Attention: Scott Seery

LIMITATIONS

The findings and conclusions presented in this report are based on field review and observations, and from the limited testing program described in this report. This report has been prepared in accordance with generally accepted methodologies and standards of practice in the area. No other warranties, expressed or implied, are made as to the findings, conclusions and recommendations included in the report.

The findings of this report are valid as of the present. The passage of time, natural processes or human intervention on the property or adjacent property can cause changed conditions which can invalidate the findings and conclusions presented in this report.

BSK is pleased to continue to be of service to you during this project. If you have questions concerning the contents of the report, please do not hesitate to contact us.

The following are attached and complete this report:

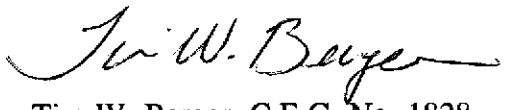
FIGURE	1	Vicinity Map
FIGURE	2	Site Plan
FIGURE	3	Potentiometric Surface Map
FIGURES through	4.1 4.6	Well Field Logs

APPENDIX "A"

FIGURES through	A-1 A-10	Thirteenth Quarterly Laboratory Chemical Test Data Sheets
FIGURE	A-11	Project Chain-of-Custody Document

Respectfully submitted,
BSK & Associates

Alex Y. Eskandari, P.E.
Project Manager
C.E. No. 038101, R.E.A. No. 01528



Tim W. Berger, C.E.G. No. 1828
Project Geologist

AYE/TWB:ndp
(reports\env\P92057.Q13)

Distribution:
R.T. Nahas Co. (1 original and 3 copies)

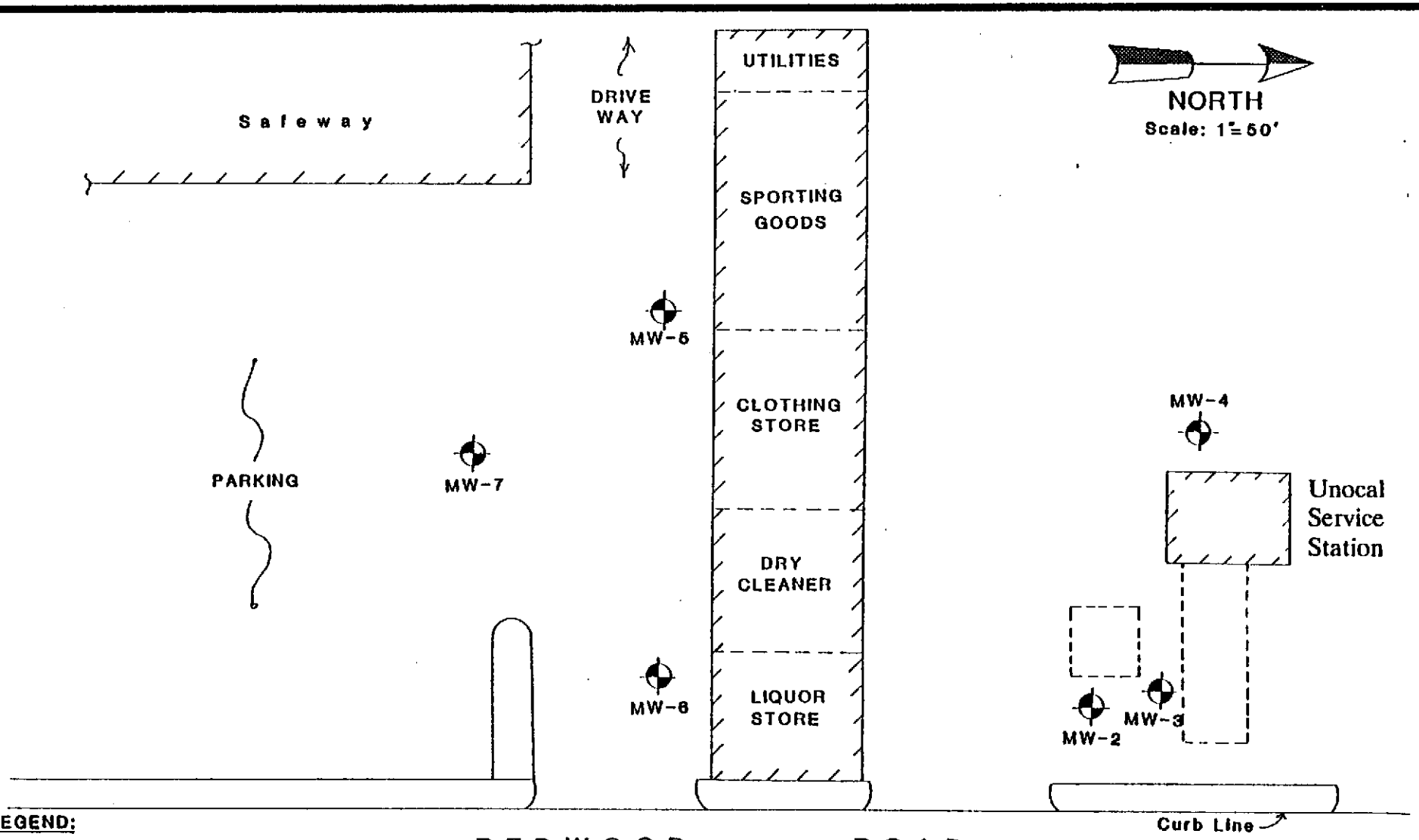
Source: Thomas Guide, 1992, Alameda and Contra Costa Counties

THIRTEENTH QUARTERLY GROUNDWATER MONITORING REPORT
UNOCAL 76 SERVICE STATION
20405 AND 20629 REDWOOD ROAD
CASTRO VALLEY, CALIFORNIA

VICINITY MAP

BSK Job No. P92057.3
November 1993
FIGURE: 1

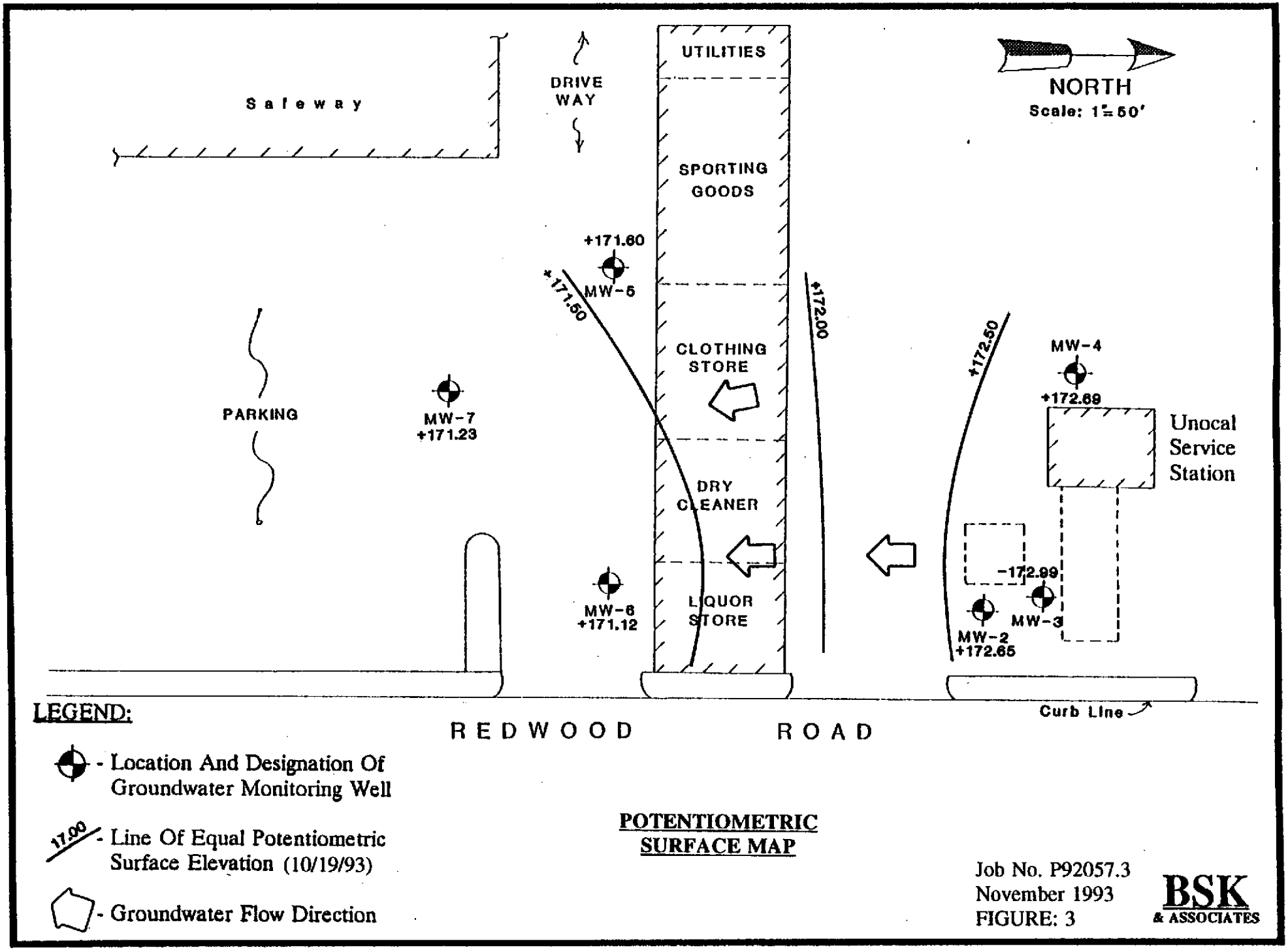
BSK & ASSOCIATES



SITE PLAN

Job No. P92057.3
November 1993
FIGURE: 2

BSK & ASSOCIATES



POTENTIOMETRIC SURFACE MAP

Job No. P92057.3
November 1993
FIGURE: 3

BSK & ASSOCIATES

WELL FIELD LOG

Well Observation: x **Date:** 10/19/93
Sample Collection: x **Date:** 10/19/93

Project Name: Thirteenth Quarterly Sampling
Location: Nahas/Union 76
Personnel: RFG
Weather: Clear, cool

WELL INFORMATION:

Well Number	MW-2	**Date Purged**	10/19/93
Depth to Water - feet(TOC)	10.82	**Purge Method**	Bailer
Well Depth (feet)	30		
Water Volume (gallons)	3.3	**Purge Begin**	11:21
Reference Elevation - feet(TOC)	+183.47	**Purge End**	11:37
Groundwater Elevation (feet)	+172.65	**Purge Rate**	0.9 gal/min.
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: None, clear
Bottom: Red flakes
Detection Method: Visual
Collection Method: Clear Point-Source Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (Ec/Range)	pH	TEMP. (°F)	COLOR/COMMENTS
11:26	3.5	441	6.7	70	None
11:32	7.0	441	6.4	71	"
11:37	10.5	432	6.3	70	"

SAMPLE COLLECTION DATA

Sampling Equipment: Teflon Point-Source Bailer

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
11:47	BTEX & TPHg	2-40ml glass VOC with HCl	19-21'

Field Observations: None

BSK Job No.: P92057.3
Date: November 1993
Figure No.: 4.1

WELL FIELD LOG

Well Observation: x **Date:** 10/19/93
Sample Collection: x **Date:** 10/19/93

Project Name: Thirteenth Quarterly Sampling
Location: Nahas/Union 76
Personnel: RFG
Weather: Clear, cool

WELL INFORMATION:

Well Number	MW-3	**Date Purged**	07/01/93
Depth to Water - feet(TOC)	11.04	**Purge Method**	Electric Submersible Pump
Well Depth (feet)	30		
Water Volume (gallons)	3.0	**Purge Begin**	10:41
Reference Elevation - feet(TOC)	+184.03	**Purge End**	10:48
Groundwater Elevation (feet)	+172.99	**Purge Rate**	1.3 gal/min.
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: None, clear
Bottom: None, trace fine sand and algae
Detection Method: Visual
Collection Method: Clear Point-Source Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (Ec/Range)	pH	TEMP. (°F)	COLOR/COMMENTS
10:44	3.0	423	7.6	70	Yellow tint
10:46	6.0	424	7.1	70	"
10:48	9.0	425	6.9	70	"

SAMPLE COLLECTION DATA

Sampling Equipment: Electric Submersible Pump

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
10:51	BTEX & TPHg	2-40ml glass VOC with HCl	18-20'

Field Observations: Six feet from active gas pump island

BSK Job No.: P92057.3
Date: November 1993
Figure No.: 4.2

WELL FIELD LOG

Well Observation: x **Date:** 10/19/93
Sample Collection: x **Date:** 10/19/93

Project Name: Thirteenth Quarterly Sampling
Location: Nahas/Union 76
Personnel: RFG
Weather: Clear, cool

WELL INFORMATION:

Well Number	MW-4	**Date Purged**	10/19/93
Depth to Water - feet(TOC)	11.92	**Purge Method**	Electric Submersible Pump
Well Depth (feet)	25		
Water Volume (gallons)	2.1	**Purge Begin**	07:58
Reference Elevation - feet(TOC)	+184.61	**Purge End**	08:06
Groundwater Elevation (feet)	+172.69	**Purge Rate**	0.9 gal/min.
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: None, clear
Bottom: None, clay colloids
Detection Method: Visual
Collection Method: Clear Point-Source Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (Ec/Range)	pH	TEMP. (°F)	COLOR/COMMENTS
08:01	2.5	--	7.2	62	Yellow tint
08:03	5.0	--	6.6	64	"
08:06	7.5	--	6.5	66	Clear

SAMPLE COLLECTION DATA

Sampling Equipment: Electric Submersible Pump

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
08:10	BTEX & TPHg	2-40ml glass VOC with HCl	15-17'
"	TPHd	2-250 ml Amber Glass, w/H_2SO_4	"
"	Oil & Grease	1 Liter Amber Glass, w/H_2SO_4	"

Field Observations: None

BSK Job No.: P92057.3
Date: November 1993
Figure No.: 4.3

WELL FIELD LOG

Well Observation: x **Date:** 10/19/93
Sample Collection: x **Date:** 10/19/93

Project Name: Thirteenth Quarterly Sampling
Location: Nahas/Union 76
Personnel: MC, RFG
Weather: Clear, warm, mid 80's

WELL INFORMATION:

Well Number	MW-5	**Date Purged**	10/19/93
Depth to Water - feet(TOC)	12.32	**Purge Method**	Electric Submersible Pump
Well Depth (feet)	34.5		
Water Volume (gallons)	3.5	**Purge Begin**	09:50
Reference Elevation - feet(TOC)	+183.92	**Purge End**	09:58
Groundwater Elevation (feet)	+171.60	**Purge Rate**	1.3 gal/min.
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: None, clear
Bottom: None, clay colloids
Detection Method: Visual
Collection Method: Clear Point-Source Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (Ec/Range)	pH	TEMP. (°F)	COLOR/COMMENTS
09:52	3.5	416	6.9	69.0	Yellow tint
09:55	7.0	425	7.3	71.0	"
09:58	10.5	432	7.2	72.0	"

SAMPLE COLLECTION DATA

Sampling Equipment: Electric Submersible Pump

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
10:02	BTEX & TPHg	2-40ml glass VOC with HCl	21-23'

Field Observations: Well in busy parking lot.

BSK Job No.: P92057.3
Date: November 1993
Figure No.: 4.4

WELL FIELD LOG

Well Observation: x **Date:** 10/19/93
Sample Collection: x **Date:** 10/19/93

Project Name: Thirteenth Quarterly Sampling
Location: Nahas/Union 76
Personnel: RFG
Weather: Clear, cool

WELL INFORMATION:

Well Number	MW-6	**Date Purged**	10/19/93
Depth to Water - feet(TOC)	12.48	**Purge Method**	Electric Submersible Pump
Well Depth (feet)	29.0		
Water Volume (gallons)	2.6	**Purge Begin**	08:57
Reference Elevation - feet(TOC)	+183.60	**Purge End**	09:03
Groundwater Elevation (feet)	+171.12	**Purge Rate**	1.5 gal/min.
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: None
Bottom: None, clay colloids
Detection Method: Visual
Collection Method: Clear Point-Source Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (Ec/Range)	pH	TEMP. (°F)	COLOR/COMMENTS
08:57	3.0	--	7.4	65.0	Slight yellow tint
09:01	6.0	--	6.7	68.0	"
09:03	9.0	--	6.6	70.0	Clear

SAMPLE COLLECTION DATA

Sampling Equipment: Electric Submersible Pump

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
09:05	BTEX & TPHg	2-40ml glass VOC with HCl	15-17'

Field Observations: Well in busy parking lot.

BSK Job No.: P92057.3
Date: November 1993
Figure No.: 4.5

WELL FIELD LOG

Well Observation: x **Date:** 10/19/93
Sample Collection: x **Date:** 10/19/93

Project Name: Thirteenth Quarterly Sampling
Location: Nahas/Union 76
Personnel: RFG
Weather: Clear, cool

WELL INFORMATION:

Well Number	MW-7	**Date Purged**	10/19/93
Depth to Water - feet(TOC)	11.55	**Purge Method**	Bailer
Well Depth (feet)	28.0		
Water Volume (gallons)	2.6	**Purge Begin**	12:14
Reference Elevation - feet(TOC)	+182.78	**Purge End**	12:34
Groundwater Elevation (feet)	+171.23	**Purge Rate**	0.4 gal/min.
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: None
Bottom: None
Detection Method: Visual
Collection Method: Clear Point-Source Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (Ec/Range)	pH	TEMP. (°F)	COLOR/COMMENTS
12:20	2.6	484	6.9	76.0	Yellow tint
12:27	5.2	467	6.2	73.0	"
12:34	7.3	468	6.2	72.0	"

SAMPLE COLLECTION DATA

Sampling Equipment: Disposable Bailer

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
12:45	BTEX & TPHg	2-40ml glass VOC with HCl	14-16'

Field Observations: Well located in busy parking lot

BSK Job No.: P92057.3
Date: November 1993
Figure No.: 4.6

APPENDIX A

CHEMICAL TEST DATA SHEETS

AND

PROJECT-CHAIN-OF-CUSTODY RECORD

BSK & Associates

FIGURE: A-1

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

DUPLICATE

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 1147
Date Received : 10/20/93
Date of Analysis : 10/20/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-1
Project Number : P92057.3
Sample Description: MW-2, No.1

Sample Type : LIQUID

Analyses for BTEX by EPA Method 8020 and TPH(G) by EPA Method 8015 Prepared by Method 5030

Results Reported in Micrograms per Liter (ug/L)

Compound	Results	DLR
Benzene	4.0	0.3
Toluene	ND	0.3
Ethylbenzene	2.3	0.3
Total Xylene Isomers	3.1	0.3
Total Petroleum Hydrocarbons (G)	98	50

Sample DLR = DLR x DLR Multiplier, DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.
ND: None Detected

Cynthia Pigman, QA/QC Supervisor

Jeffrey Creager, Organics Manager

R91 1009 BTPL.t

FIGURE: A-2

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

DUPLICATE

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 1147
Date Received : 10/20/93
Date of Analysis : 10/21/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-1
Project Number : P92057.3
Sample Description: MW-2, No.1

Sample Type : LIQUID

Analyses for Volatile Halocarbons by EPA Method 601
Prepared by EPA Method 5030

Results Reported in Micrograms per Liter (µg/L)

Compounds	Results	DLR	Compound	Results	DLR
Bromodichloromethane	ND	0.5	1,2-Dichloroethane	ND	0.5
Bromoform	ND	0.5	1,1-Dichloroethene	ND	0.5
Bromomethane	ND	1.0	cis-1,2 Dichloroethene.....	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,2-Dichloroethene...	ND	0.5
Chlorobenzene	ND	0.5	1,2-Dichloropropane	ND	0.5
Chloroethane	ND	0.5	cis-1,3-Dichloropropene ...	ND	0.5
Chloroform	ND	0.5	trans-1,3-Dichloropropene..	ND	0.5
Chloromethane	ND	0.5	Methylene chloride	ND	2.0
Dibromochloromethane	ND	0.5	1,1,2,2-tetrachloroethane..	ND	0.5
1,2-Dichlorobenzene	ND	0.5	Tetrachloroethene	ND	0.5
1,3-Dichlorobenzene	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,4-Dichlorobenzene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
Dichlorodifluoromethane ...	ND	2.0	Trichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5	Trichlorofluoromethane	ND	0.5
			Vinyl chloride	ND	1.0

Sample DLR = DLR x DLR Multiplier,
DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.

ND: None Detected

--: Not Analyzed

Cynthia Pigman, QA/QC Supervisor

Jeffrey Creager, Organics Manager

130921 601.T

FIGURE: A-3

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

DUPLICATE

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 1051
Date Received : 10/20/93
Date of Analysis : 10/20/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-2
Project Number : P92057.3
Sample Description: MW-3, No.1

Sample Type : LIQUID

Analyses for BTEX by EPA Method 8020 and TPH(G) by EPA Method 8015 Prepared by Method 5030

Results Reported in Micrograms per Liter (ug/L)

Compound	Results	DLR
Benzene	5.0	0.3
Toluene	ND	0.3
Ethylbenzene	0.6	0.3
Total Xylene Isomers	1.2	0.3
Total Petroleum Hydrocarbons (G)	ND	50

Sample DLR = DLR x DLR Multiplier, DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.
ND: None Detected

Cynthia Pigman, QA/QC Supervisor

Jeffrey Creager, Organics Manager

R91 1009 BTPL.t

FIGURE: A-4

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

DUPLICATE

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 0810
Date Received : 10/20/93
Date of Analysis : 10/25/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-3
Project Number : P92057.3
Sample Description: MW-4, No.1

Sample Type : LIQUID

Analyses For Total & Hydrocarbon Oil & Grease By EPA Methods 413.2 & 418.1

Results Reported in Milligrams Per Liter (mg/L)

Analyte	Results	DLR
Total Oil and Grease.....	ND	1
Hydrocarbon Oil and Grease	ND	1

Sample DLR = DLR x DLR Multiplier, DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.
ND: None Detected

Cynthia Pigman, QA/QC Supervisor

Jeffrey Creager, Organics Manager

R920302 OGTHL41

FIGURE: A-5

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

DUPLICATE

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 0810
Date Received : 10/20/93
Date of Analysis : 10/20/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-3
Project Number : P92057.3
Sample Description: MW-4, No.1

Sample Type : LIQUID

Analyses for BTEX by EPA Method 8020 and TPH(G) by EPA Method 8015 Prepared by Method 5030

Results Reported in Micrograms per Liter (ug/L)

Compound	Results	DLR
Benzene	ND	0.3
Toluene	0.4	0.3
Ethylbenzene	ND	0.3
Total Xylene Isomers	0.4	0.3
Total Petroleum Hydrocarbons (G)	ND	50

Sample DLR = DLR x DLR Multiplier, DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.
ND: None Detected

Cynthia Pigman, QA/QC Supervisor

Jeffrey Creager, Organics Manager

FIGURE: A-6

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

DUPLICATE

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 0810
Date Received : 10/20/93
Date of Analysis : 10/22/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-3
Project Number : P92057.3
Sample Description: MW-4, No.1

Sample Type : LIQUID

Analyses for TPH (Total Petroleum Hydrocarbons) as Diesel by Method DHS GC/FID.

Results Reported in Micrograms per Liter (μg/L)

Analyte	Results	DLR
TPH(D)	ND	50

Sample DLR = DLR x DLR Multiplier, DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.
ND: None Detected
*-This sample contains lower molecular weight hydrocarbons.
**-This sample contains higher molecular weight hydrocarbons.
***-This sample contains both higher and lower molecular weight hydrocarbons.

Cynthia Pigman, QA/QC Supervisor

Jeffrey Creager, Organics Manager

R920213 TPHDL.t

FIGUIRE: A-7

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

AMENDED REPORT

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 0810
Date Received : 10/20/93
Date of Analysis : 10/21/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-3
Project Number : P92057.3
Sample Description: MW-4, No.1

Sample Type : LIQUID

Analyses for Volatile Halocarbons by EPA Method 601
Prepared by EPA Method 5030

Results Reported in Micrograms per Liter (µg/L)

Compounds	Results	DLR	Compound	Results	DLR
Bromodichloromethane	ND	0.5	1,2-Dichloroethane	ND	0.5
Bromoform	ND	0.5	1,1-Dichloroethene	ND	0.5
Bromomethane	ND	1.0	cis-1,2 Dichloroethene.....	ND	0.5
Carbon tetrachloride	ND	0.5	trans-1,2-Dichloroethene...	ND	0.5
Chlorobenzene	ND	0.5	1,2-Dichloropropane	ND	0.5
Chloroethane	ND	0.5	cis-1,3-Dichloropropene ...	ND	0.5
Chloroform	ND	0.5	trans-1,3-Dichloropropene..	ND	0.5
Chloromethane	ND	0.5	Methylene chloride	ND	2.0
Dibromochloromethane	ND	0.5	1,1,2,2-tetrachloroethane..	ND	0.5
1,2-Dichlorobenzene	ND	0.5	**Tetrachloroethene**	**0.7**	0.5
1,3-Dichlorobenzene	ND	0.5	1,1,1-Trichloroethane	ND	0.5
1,4-Dichlorobenzene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
Dichlorodifluoromethane ...	ND	2.0	**Trichloroethene**	**0.9**	0.5
1,1-Dichloroethane	ND	0.5	Trichlorofluoromethane	ND	0.5
			Vinyl chloride	ND	1.0

Sample DLR = DLR x DLR Multiplier,
DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.

ND: None Detected

--: Not Analyzed

Cynthia Pigman, QA/QC Supervisor

Jc by su
Jeffrey Creager, Organics Manager

130921 601.T

FIGURE: A-8

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

DUPLICATE

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 1002
Date Received : 10/20/93
Date of Analysis : 10/20/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-4
Project Number : P92057.3
Sample Description: MW-5, No.1

Sample Type : LIQUID

Analyses for BTEX by EPA Method 8020 and TPH(G) by EPA Method 8015 Prepared by Method 5030

Results Reported in Micrograms per Liter (ug/L)

Compound	Results	DLR
Benzene	ND	0.3
Toluene	ND	0.3
Ethylbenzene	ND	0.3
Total Xylene Isomers	ND	0.3
Total Petroleum Hydrocarbons (G)	ND	50

Sample DLR = DLR x DLR Multiplier, DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.
ND: None Detected

Cynthia Pigman, QA/QC Supervisor

Jeffrey Creager, Organics Manager

791 1009 BTPL.t

FIGURE: A-9

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

DUPLICATE

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 0905
Date Received : 10/20/93
Date of Analysis : 10/20/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-5
Project Number : P92057.3
Sample Description: MW-6, No.1

Sample Type : LIQUID

Analyses for BTEX by EPA Method 8020 and TPH(G) by EPA Method 8015 Prepared by Method 5030

Results Reported in Micrograms per Liter (ug/L)

Compound	Results	DLR
Benzene	ND	0.3
Toluene	ND	0.3
Ethylbenzene	ND	0.3
Total Xylene Isomers	ND	0.3
Total Petroleum Hydrocarbons (G)	ND	50

Sample DLR = DLR x DLR Multiplier, DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.
ND: None Detected

Cynthia Pigman, QA/QC Supervisor

Jeffrey Creager, Organics Manager

R91 1009 BTPL.t

FIGURE: A-10

ANALYTICAL BSK LABORATORIES
Environmental Services

1414 Stanislaus Street
Fresno, California 93706
Telephone (209) 497-2889
FAX (209) 485-6935
1-800-877-8310

AMENDED REPORT

BSK-Pleasanton
Nahas

Date Sampled : 10/19/93
Time Sampled : 1245
Date Received : 10/20/93
Date of Analysis : 10/20/93
Report Issue Date: 11/01/93

Case Number : Ch932865
Lab ID Number : 2865-6
Project Number : P92057.3
Sample Description: MW-7, No.1

Sample Type : LIQUID

Analyses for BTEX by EPA Method 8020 and TPH(G) by EPA Method 8015 Prepared by Method 5030

Results Reported in Micrograms per Liter (ug/L)

Compound	Results	DLR
Benzene	ND	0.3
Toluene	ND	0.3
Ethylbenzene	ND	0.3
Total Xylene Isomers	0.7	0.3
Total Petroleum Hydrocarbons (G)	360 *	50

Sample DLR = DLR x DLR Multiplier, DLR Multiplier = 1

DLR: Detection Limit for the Purposes of Reporting.
Exceptional sample conditions or matrix interferences may result in higher detection limits.
ND: None Detected

* : Hydrocarbons in the gasoline boiling point range are reported, in accordance with the method, as gasoline. Chromatography for this sample is:

( ) -- Consistent with gasoline standard.
(X) -- Inconsistent with gasoline standard because:
[ ] Early (light) range missing or significantly decreased.
[X] Major individual peak(s) present.

Cynthia Pigman, QA/QC Supervisor

Jeffrey Creager, Organics Manager

ANALYTICAL
B·S·K
LABORATORIES
Environmental Services

Stanislaus Street
Fresno, CA 93706
(209) 485-8310
(800) 877-8310
(209) 485-0935 FAX

Analyses Request / Chain of Custody

BSK Log Number: 2865

Analytical Due Date: 10/26/93

Shaded areas for LAB use only

Requested Analyses 10/1/93

Client Name: Dahco	Report Attention: Tim Berger	Phone #: 510 462 4000
Address: 1181 Quarry Ln Bldg. 300	Project, Quote or PO #: P92057.3	FAX #: 510 462 6283
City, State, Zip: Pleasanton, CA 94566	Copy to: Tim Berger	System #:

LAB use only Sample #	Type	# Cont	Date Sampled	Time Sampled	Sampled by: Robert Gregurich / Sample Description/Location	Comment or Station Code	13TEX, TPHG	EPA M601	TPHd	Ta H Oil & Grease							
1	W	4	11:47	10/19/93	MW-2, No. 1	Please note on final	X	X									
2		2	10/19/93	10:51	MW-3, No. 1	results if any TPH	X										
3		7	10/19/93	08:10	MW-4, No. 1	chromatogram does	X	X	X	X							
4		2		10:02	MW-5, No. 1	not match standards	X										
5		2		09:05	MW-6, No. 1		X										
6	W	2		12:45	MW-7, No. 1		X										

DUPLICATE

Matrix Type: L - Liquid S - Solid G - Gas
Type of Hazards Associated with Samples:

Additional Services:
Rush Priority: [ ] - 2 Day [ ] - 5 Day
[ ] - Formal Chain of Custody [ ] - QC Data package

Additional Services Authorized by: _____ (Signature)

Payment Received with Delivery
Date: _____ Amount: $ _____
Check # _____ Initials _____
Reciept # _____

	Signature	Print Name	Company	Date	Time
Requested / Relinquished by:	Tim Berger	Tim Berger	BSK-P	10/19/93	1516:30
Received / Relinquished by:					
Received / Relinquished by:					
Received / Relinquished by:					
Received for Laboratory by:	Jamieson Garrison	Jamieson Garrison	BSK Labs	10/20/93	1030

FIGURE: A-11