RO-295

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REAL ESTATE DEVELOPERS AND INVESTORS

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CASTRO VALLEY, CALIFORNIA 94546
TELEPHONE (510) 538-9600
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October 24, 2003

Mr. Scott Seery
Hazardous Materials Specialist
Alameda County Health Care Services
1131 Harbor Bay Pkwy., Room 250
Oakland, CA 94502

Dear Scott:

Enclosed is the 8th semi-annual groundwater report for the former Unocal 76 service station on Redwood Road in Castro Valley.

While there are still contaminants in the ground and their concentrations are diminishing, I'm having a very difficult time understanding why I continue to spend $5000+ per year to produce reports that are obviously being filed away in a dead file somewhere in the Alameda County Health Department, the same way they're being dead-filed in our office. If no further remediation is necessary, and we know there are no more pollution generators adding to the plumb, why are we wasting money and time continuing to monitor when we know what the ultimate outcome is? From the thousands and thousands of wells that have been monitored, we should know what the half life of these chemicals are and therefore be able to predict where the concentrations are going and eliminate this waste of money, for us personally, and the State of California.

I am going to ask our consultants to prepare a closure report as soon as possible. If I had come to this conclusion five years ago, I would have saved the State a lot of money. As in the past, I don't expect any response from you, as I have not received any for as long as I can remember. Perhaps a cessation of the monitoring will get somebody's attention.

Sincerely,

Randall E. Nahas

Enclosure
REN/tar

Report – Eighth Semi-Annual Groundwater Monitoring (Third Quarter of 2003) Former Unocal 76 Service Station 20405 and 20629 Redwood Road Castro Valley, California

BSK ASSOCIATES

BSK JOB NO. P92057.3

Submitted to:
R.T. Nahas Company
Castro Valley, California

October 21, 2003

BSK

BSK

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Pleasanton, CA 94566
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October 21, 2003

BSK JOB NO. P92057.3

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

Attention: Mr. Randy T. Nahas

Subject: **Report**
Eighth Semi-Annual Groundwater Monitoring
(Third Quarter of 2003)
Former Unocal 76 Service Station
20405 and 20629 Redwood Road
Castro Valley, California

Dear Mr. Nahas:

As requested and authorized, we have performed groundwater monitoring well sampling at the above-referenced site. This report presents the groundwater data obtained during this and previous sampling events, conclusions based on the data collected during this event, and recommendations for further action. The site location is shown on Figure 1, Vicinity Map. The well locations are shown on Figure 2, Site Plan.

GROUNDWATER MONITORING ACTIVITIES – SEPTEMBER 2003

General

The Eighth semi-annual monitoring of groundwater monitoring wells at the project site (Figure 2, Site Plan) was performed on September 17, 2003. ***Groundwater monitoring wells MW-2 and MW-7 could not be accessed during this sampling event as these wells were covered with fill soil and paved over, respectively.*** Groundwater monitoring well MW-4 was abandoned during the remediation activities carried out in 1999 by others at the site. The semi-annual sampling schedule – with monitoring activities in the first and third quarter of each year – was requested by Mr. Scott Seery, case officer for the Alameda County Department of Environmental Health (ACDEH), in a letter addressed to the R. T. Nahas Company, dated November 2, 1999. Further, in accordance with Mr. Seery's letter of April 24, 2001, sampling of well MW-5 was discontinued as of the Fourth sampling round. Field procedures and observations are provided in the following text.

Field Work

All wells sampled were purged using an electric submersible pump. Three to four well casing volumes of water 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 55-gallon, DOT-approved steel drums for holding. Each drum was labeled according to its content, content source, and date of accumulation.

Prior to purging, the depth to water in each well was measured using a Solinst Electric Well Sounder, 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 checked for floating and sinking immiscible product layers and sheen, using a clear bailer having dual check valves for point-source sampling. The piezometric contour and elevation, and well water elevations, are presented on Figure 3, Groundwater Elevation Contour Map.

Upon purge completion, each well was again measured to confirm a minimum of 80 percent well recovery prior to sampling. Water sampling was then performed with a disposable bailer. Sampling for contaminants was performed in the order of decreasing contaminant volatility. Each water sample 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

The groundwater level was measured in four (4) wells on September 17, 2003, to assess the flow direction and gradient. On that date, groundwater flow was generally in a direction slightly east of south, with a gradient of 0.012 ft/ft (Figure 3).

Chemical Analyses

Water samples obtained from each of the sampled wells were analyzed for constituents related to gasoline, Total Petroleum Hydrocarbons as Gasoline (TPHg), Benzene, Toluene, Ethylbenzene and Xylene (BTEX) and Methyl-t-Butyl Ether (MTBE).

The contaminants tested for are those specified by ACDEH in their letter dated November 2, 1999. Current and prior analytical results are presented for comparison in Table 1. Records of past and present concentrations of BTEX and MTBE in the groundwater samples from MW-2 and MW-3 are graphically presented on Figures 5 and 6, respectively (***no current data is available for MW-2 as it could not be accessed during this sampling event***). The Chemical Test Data Sheets are presented in Appendix A along with the Project Chain-of-Custody record and QA/QC Summary Report.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Compared to the previous results (from the March 2003 sampling event), trace contaminant concentrations associated with gasoline (BTEX compounds) are at lower concentrations in well MW-101, and somewhat lower concentrations in well MW-6. The Total Petroleum Hydrocarbons as Gasoline detected in previous events in well MW-7 probably represents Perchloroethane.

MTBE was detected in wells MW-3, MW-6 and MW-101. The MTBE detected in well W-101 (highest reading) was confirmed using EPA Method 8260 as requested by ACDEH.

Recommendations

Since, with the exception of a trace concentration of MTBE, no Total Petroleum Hydrocarbons as Gasoline and BTEX have been detected in well MW-3 for the last two and one-half years (see Table 1) and the TPH-g detected in previous events in well MW-7 is Perchloroethane-related, as indicated before, we recommend that monitoring and testing of these wells be discontinued. However, the remaining three groundwater monitoring wells (MW-2, MW-101 and MW-6) located at the site should be sampled on a semi-annual basis as requested by ACDEH (letter dated April 24, 2001). The next semi-annual sampling event is scheduled for March 2004.

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 ACDEH to the Regional Water Quality Control Board in Oakland for their review.

Alameda County Department of Environmental Health
1181 Harbor Bay Parkway
Alameda, CA 94502

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:

TABLE	1	Summary of Groundwater Analysis
FIGURE	1	Vicinity Map
FIGURE	2	Site Plan
FIGURE	3	Groundwater Elevation Contour Map
FIGURES	4.1-4.6	Well Field Logs
FIGURE	5	BTEX/MTBE Concentrations in Groundwater - MW-2
FIGURE	6	BTEX/MTBE Concentrations in Groundwater - MW-3
Appendix "A"		Laboratory Chemical Test Data Sheets and Project Chain-of-Custody Record (4 pages), and Level II QC Summary Report (7 pages)

Respectfully submitted,
BSK Associates

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C 35720, G.E. 2086

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YAE/BY:by
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Distribution:
R. T. Nahas Company (4 copies)

TABLE 1, SUMMARY OF GROUNDDWATER ANALYSIS, Results in ug/L

Sample Date	Well Number	Benzene	Toluene	Ethyl-Benzene	Xylenes	Methyl-t-Butyl Ether	TPH Gasoline	TPH Diesel	Total Oil & Grease	EPA 601
September	**MW-2 *** **	---	---	---	---	---	---	---	---	---
2003	**MW-3**	**ND**	**ND**	**ND**	**ND**	**13**	**ND**	---	---	---
	MW-5 *	---	---	---	---	---	---	---	---	---
	MW-6	**ND**	**ND**	**ND**	**ND**	**440**	**140**	---	---	---
	MW-7 **	---	---	---	---	---	---	---	---	---
	MW-101	**150**	**ND**	**100**	**110**	**850[1]/1100[2]**	**3000**	---	---	---
March	MW-2 ***	---	---	---	---	---	---	---	---	---
2003	MW-3 ***	---	---	---	---	---	---	---	---	---
---	MW-5 *	---	---	---	---	---	---	---	---	---
---	MW-6	ND	ND	ND	ND	200	61	---	---	---
---	MW-7 **	---	---	---	---	---	---	---	---	---
---	MW-101	330	ND	440	370	1400[1]/840[2]	6300	---	---	---
October	MW-2	ND	ND	ND	ND	280	92	---	---	---
2002	MW-3	ND	ND	ND	ND	15	ND	---	---	---
---	MW-5 *	---	---	---	---	---	---	---	---	---
---	MW-6	ND	ND	ND	ND	260	83	---	---	---
---	MW-7 **	---	---	---	---	---	---	---	---	---
---	MW-101	240	0.74	230	76	1500[1]/1400[2]	5200	---	---	---
March	MW-2	2.6	0.31	2	1.7	420	140	---	---	---
2002	MW-3	ND	ND	ND	ND	26	ND	---	---	---
---	MW-5 *	---	---	---	---	---	---	---	---	---
---	MW-6	ND	ND	ND	ND	370	91	---	---	---
---	MW-7	0.35	ND	0.91	2.2	7.7	280	---	---	---
---	MW-101	600	25	1600	3100	1600[1]/870[2]	19000	---	---	---
August	MW-2	ND	ND	ND	ND	690[1]/820[2]	160	---	---	---
2001	MW-3	ND	ND	ND	ND	26	ND	---	---	---
---	MW-5 *	---	---	---	---	---	---	---	---	---
---	MW-6	ND	ND	ND	ND	280[1]/350[2]	79	---	---	---
---	MW-7	ND	ND	ND	ND	7.3[1]/ND[2]	800	---	---	---
---	MW-101	630	ND	1500	480	1400	12000	---	---	---
March	MW-2	22	1.5	17	27	1300[1]/1200[2]	1000	---	---	---
2001	MW-3	ND	ND	ND	ND	190	ND	---	---	---
---	MW-5	ND	ND	ND	ND	ND	ND	---	---	---
---	MW-6	ND	ND	ND	ND	440	130	---	---	---
---	MW-7	ND	ND	ND	ND	ND	630	---	---	---
---	MW-101	1400	62	3400	7700	970	34000	---	---	---

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TABLE 1, SUMMARY OF GROUNDDWATER ANALYSIS, Results in ug/L

Sample Date	Well Number	Benzene	Toluene	Ethyl-Benzene	Xylenes	Methyl-t-Butyl Ether	TPH Gasoline	TPH Diesel	Total Oil & Grease	EPA 601
September	MW-2	0.89	ND	1	0.65	620	180	---	---	---
2000	MW-3	ND	ND	ND	ND	98	ND	---	---	---
---	MW-5	ND	ND	ND	ND	ND	ND	---	---	---
---	MW-6	ND	ND	ND	ND	170	54	---	---	---
---	MW-7	3	0.32	13	27	ND	770	---	---	---
---	MW-101	1100	35	2900	400	1600[1]/1800[2]	12000	---	---	---
March	MW-2	14	0.92	16	24	1400	560	---	---	---
2000	MW-3	0.61	ND	ND	ND	240	96	---	---	---
---	MW-5	ND	ND	ND	ND	ND	ND	---	---	---
---	MW-6	ND	0.49	ND	ND	260	78	---	---	---
---	MW-7	890	ND	ND	ND	ND	ND	---	---	---
---	MW-101	2500	490	4300	10000	2400[1]/1400[2]	40000	---	---	---
November	MW-2	6.8	0.64	4.7	8.2	1200	360	---	---	---
1997	MW-3	1.7	1.4	2.3	8.3	65	62	---	---	---
---	MW-4	ND	ND	ND	ND	ND	ND	ND	---	---
---	MW-5	ND	ND	ND	ND	ND	ND	ND	---	---
---	MW-6	ND	ND	ND	ND	9	ND	ND	---	---
---	MW-7	---	---	---	---	---	---	---	---	---
April	MW-2	23	1.6	21	31.4	1800	470	---	---	---
1997	MW-3	7.3	ND	3.3	5.4	230	120	---	---	---
---	MW-4	ND	ND	ND	ND	ND	ND	ND	---	---
---	MW-5	ND	ND	ND	ND	ND	ND	---	---	---
---	MW-6	ND	ND	ND	ND	ND	ND	---	---	---
---	MW-7	---	---	---	---	---	---	---	---	---
October	MW-2	9.4	0.5	7.2	9.4	1400	180	---	---	---
1996	MW-3	3.8	1.5	2.1	6.8	55	79	---	---	---
---	MW-4	ND	ND	ND	ND	ND	ND	ND	---	---
---	MW-5	ND	ND	ND	ND	ND	ND	---	---	---
---	MW-6	ND	ND	ND	ND	17	ND	---	---	---
---	MW-7	---	---	---	---	---	---	---	---	---
April	MW-2	41	2.8	27	50	---	690	---	---	---
1996	MW-3	8.4	1.6	4.7	14	---	170	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	---	---
---	MW-5	ND	ND	ND	ND	---	ND	---	---	---
---	MW-6	2.9	2.9	ND	ND	---	ND	---	---	---
---	MW-7	ND	ND	ND	ND	---	---	---	---	---

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TABLE 1, SUMMARY OF GROUNDDWATER ANALYSIS, Results in ug/L

Sample Date	Well Number	Benzene	Toluene	Ethyl-Benzene	Xylenes	Methyl-t-Butyl Ether	TPH Gasoline	TPH Diesel	Total Oil & Grease	EPA 601
October	MW-2	7.4	ND	5.1	5.5	---	450	---	---	---
1995	MW-3	9	3.9	8.5	34	---	340	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	---	---
---	MW-5	ND	ND	ND	ND	---	ND	---	---	---
---	MW-6	ND	ND	ND	ND	---	ND	---	---	---
---	MW-7	ND	ND	ND	ND	---	---	---	---	---
September	MW-101	170	94	150	710	---	9400	---	---	---
1995	---	---	---	---	---	---	---	---	---	---
April	MW-2	72	2.8	47	22	---	480	---	---	---
1995	MW-3	26	0.6	40	19	---	450	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	ND	---
---	MW-5	ND	ND	ND	ND	---	ND	---	---	---
---	MW-6	ND	ND	ND	ND	---	ND	---	---	---
---	MW-7	ND	ND	ND	ND	---	---	---	---	---
January	MW-2	48	2.8	15	27	---	440	---	---	---
1995	MW-3	26	0.6	14	45	---	250	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	2000	---
October	MW-2	2.8	ND	2.9	1.8	---	97	---	---	---
1994	MW-3	0.9	ND	ND	ND	---	ND	---	---	---
---	MW-4	ND	36	ND	1.3	---	70	ND	ND	---
---	MW-5	ND	71	0.4	1.7	---	87	---	---	---
---	MW-6	0.4	140	0.5	2.3	---	160	---	---	---
July	MW-2	14	0.7	5.8	12	---	180	---	---	---
1994	MW-3	7.2	0.4	1.6	4.6	---	52	---	---	---
---	MW-4	ND	0.6	ND	ND	---	ND	86	ND	---
April	MW-2	23	1.1	8.2	17	---	270	---	---	---
1994	MW-3	17	1	4.9	24	---	62	---	---	---
---	MW-4	ND	ND	ND	0.4	---	ND	ND	ND	---
---	MW-5	ND	0.4	ND	1	---	ND	---	---	---
---	MW-6	ND	0.3	ND	0.4	---	ND	---	---	---
---	MW-7	ND	ND	ND	ND	---	3603	---	---	---
January	MW-2	13	3.4	4.9	9.2	---	130	---	---	---
1994	MW-3	5.5	2.1	2.6	14	---	69	---	---	---
---	MW-7	ND	ND	ND	ND	---	3303	---	---	---

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TABLE 1, SUMMARY OF GROUNDDWATER ANALYSIS, Results in ug/L

Sample Date	Well Number	Benzene	Toluene	Ethyl-Benzene	Xylenes	Methyl-t-Butyl Ether	TPH Gasoline	TPH Diesel	Total Oil & Grease	EPA 601
October	MW-2	4	ND	2.3	3.1	---	98	---	---	---
1993	MW-3	5	ND	0.6	1.2	---	ND	---	---	---
---	MW-4	0.4	ND	ND	0.4	---	ND	ND	ND	Tetrachloroethene 0.7
---	---	---	---	---	---	---	---	---	---	Trichloroethene 0.9
---	MW-5	ND	ND	ND	ND	---	ND	---	---	---
---	MW-6	ND	ND	ND	ND	---	ND	---	---	---
---	MW-7	ND	ND	ND	0.7	---	3603	---	---	---
July	MW-2	17	1.1	6	12	---	220	---	---	---
1993	MW-3	24	11	14	82	---	330	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	1000	---
---	MW-5	ND	ND	ND	ND	---	ND	---	---	---
---	MW-6	ND	ND	ND	ND	---	ND	---	---	---
---	MW-7	ND	ND	ND	ND	---	6803	---	---	---
March	MW-2	110	32	67	28	---	720	---	---	1,2-Dichloroethane 0.6
1993	MW-3	32	0.9	64	13	---	330	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	ND	ND
---	MW-5	ND	ND	ND	ND	---	ND	---	---	Tetrachloroethane 0.8
---	MW-6	ND	ND	ND	ND	---	ND	---	---	Tetrachloroethane 3.5
---	MW-7	ND	ND	ND	ND	---	8303	---	---	Tetrachloroethene 3,700
---	---	---	---	---	---	---	---	21543	21543	Trichloroethene 210
January	MW-2	11	5.1	1.4	6.3	---	170	---	---	---
1993	MW-3	1.2	1	0.6	4.1	---	ND	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	ND	---
---	MW-5	ND	ND	ND	ND	---	ND	---	---	---
---	MW-6	ND	ND	ND	ND	---	ND	---	---	---
---	MW-7	ND	ND	ND	ND	---	19003	---	---	---
November	MW-7	---	---	---	---	---	27003	ND	---	Chlorobenzene 2.0
1992	---	---	---	---	---	---	---	---	---	Chloroform 2.0
---	---	---	---	---	---	---	---	---	---	cis-1,2-Dichloroethene 180
---	---	---	---	---	---	---	---	---	---	trans-1,2-Dichloroethene 1.5
---	---	---	---	---	---	---	---	---	---	Tetrachloroethene 14,000
---	---	---	---	---	---	---	---	---	---	Trichloroethene 660
October	MW-2	2.3	ND	2.3	3	---	ND	---	---	---
1992	MW-3	2.1	ND	ND	0.3	---	ND	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	120	ND	---
---	MW-5	ND	0.4	ND	ND	---	ND	---	---	---
---	MW-6	ND	ND	ND	ND	---	ND	---	---	---
---	MW-7	ND	ND	ND	ND	---	39003	---	---	---

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TABLE 1, SUMMARY OF GROUNDDWATER ANALYSIS, Results in ug/L

Sample Date	Well Number	Benzene	Toluene	Ethyl-Benzene	Xylenes	Methyl-t-Butyl Ether	TPH Gasoline	TPH Diesel	Total Oil & Grease	EPA 601
July	MW-2	10	ND	0.6	2.3	---	84	---	---	---
1992	MW-3	1.3	0.4	ND	1.3	---	ND	---	---	---
---	MW-5	ND	ND	ND	ND	---	ND	---	---	---
---	MW-6	ND	ND	ND	ND	---	ND	---	---	---
---	MW-7	ND	ND	ND	ND	---	8303	---	---	---
April	MW-2	70	0.3	15	7	---	300	---	---	---
1992	MW-3	1	0.4	ND	0.9	---	ND	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	ND	---
---	MW-5	ND	ND	ND	ND	---	ND	---	---	---
---	MW-6	ND	0.3	ND	ND	---	ND	---	---	---
---	MW-7	0.4	0.3	0.3	0.9	---	13003	---	---	---
January	MW-2	480	870	160	860	---	5200	---	---	---
1992	MW-3	4	10	2	8	---	60	---	---	---
October	MW-2	2.9	ND	2.5	6	---	170	---	---	---
1991	MW-3	ND	ND	ND	ND	---	ND	ND	ND	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	ND	---
July	MW-2	14	1	17	8	---	220	---	---	---
1991	MW-3	14	14	33	8	---	220	---	---	---
April	MW-2	640	520	170	790	---	4800	---	---	---
1991	MW-3	450	270	150	760	---	3600	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	ND	---
January	MW-2	50	33	22	110	---	430	---	---	---
1991	MW-3	29	3.3	9.7	34	---	110	---	---	---
August	MW-2	21	3.9	7.2	28	---	180	---	---	---
1990	MW-3	55	3.8	20	59	---	290	---	---	---
---	MW-4	ND	ND	ND	ND	---	ND	ND	ND	---
MCL		1	150	700	1750	NA	NA	NA	NA	Chlorobenzene - NA Chloroform - NA cis-1,2-Dichloroethene 6.0 trans-1,2-Dichloroethene 10.0 1,2-Dichloroethane 0.5 Tetrachloroethene 5.0 Trichloroethene 5.0

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Sample Date	Well Number	Benzene	Toluene	Ethyl-Benzene	Xylenes	Methyl-t-Butyl Ether	TPH Gasoline	TPH Diesel	Total Oil & Grease	EPA 601

NOTES:

ND = None Detected
--- = Not Analyzed
* = Water level souinding only. No sampling.
** = Unable to sample. Well box has been paved over.
*** = Unable to sample. Well covered with pile of construction material.
NA = Not Available
1 = MTBE by EPA 8015 / 8020
2 = MTBE by EPA 8260
3 = TPHg values serve to demonstrate the presence of Perchloroethane.
MCL = Maximum Contaminant Level from California Code of Regulations, Title 22, Article 5.5.

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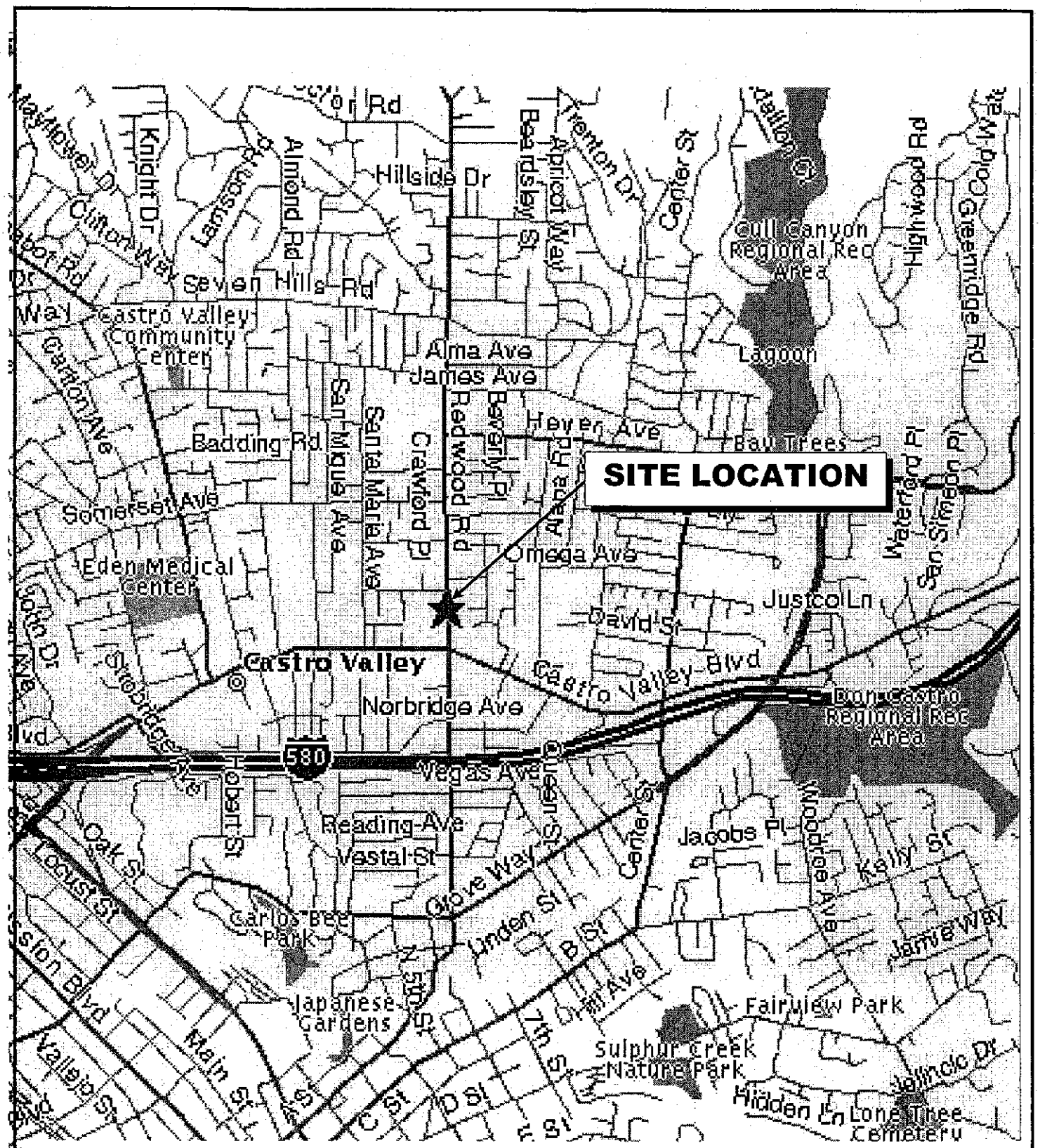
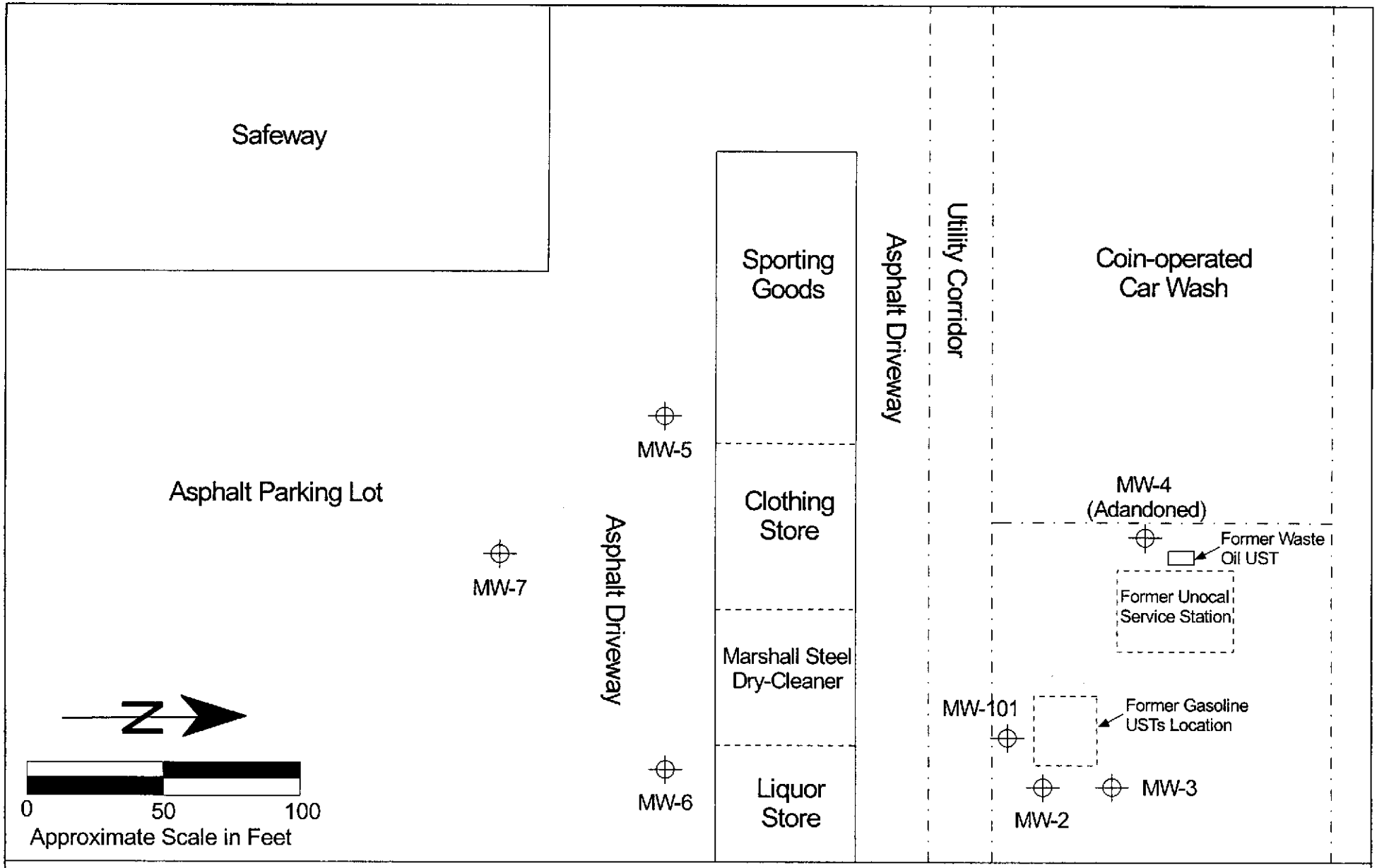


Semi-Annual Groundwater Monitoring Report Former Unocal 76 Service Station 20405 and 20629 Redwood Road Castro Valley, California	**VICINITY MAP** FIGURE 1 BSK Job No. P92057.3	BSK



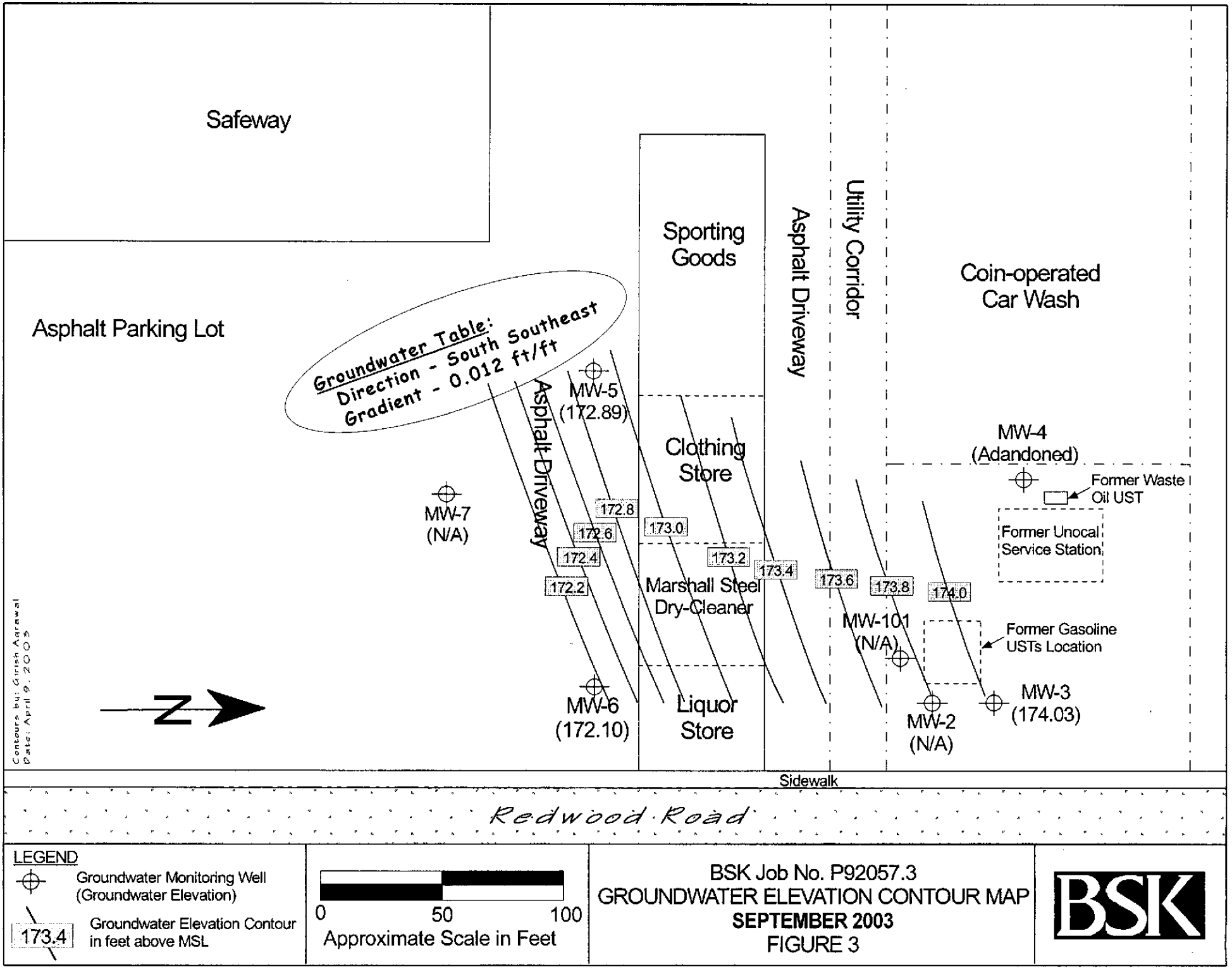
LEGEND

⊕ Groundwater Monitoring Well Location & Desgination

Semi-Annual Groundwater Monitoring Report
Former Unocal 76 Service Station
20405 and 20629 Redwood Road
Castro Valley, California

BSK Job No. P92057.3
SITE PLAN
FIGURE 2

BSK


Safeway
Asphalt Parking Lot
Groundwater Table:
Direction - South Southeast
Gradient - 0.012 ft/ft
Sporting Goods
Asphalt Driveway
Utility Corridor
Coin-operated Car Wash
MW-5 (172.89)
Clothing Store
MW-4 (Adandoned)
Former Waste Oil UST
Former Unocal Service Station
MW-7 (N/A)
172.8
172.6
172.4
172.2
173.0
173.2
173.4
173.6
173.8
174.0
Marshall Steel Dry-Cleaner
MW-101 (N/A)
Former Gasoline USTs Location
MW-6 (172.10)
Liquor Store
MW-2 (N/A)
MW-3 (174.03)
Contours by: Girish Agrawal
Date: April 9, 2003
N
Sidewalk
Redwood Road
LEGEND
Groundwater Monitoring Well (Groundwater Elevation)
173.4
Groundwater Elevation Contour in feet above MSL
0
50
100
Approximate Scale in Feet
BSK Job No. P92057.3
GROUNDWATER ELEVATION CONTOUR MAP
SEPTEMBER 2003
FIGURE 3
BSK

BSK Job No. P92057.3
Date: September 2003
Figure No. 4.1

WELL FIELD LOG

Well Observation: **Date:** 09/17/2003
Sample Collection: **Date:**

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: WDP
Weather: Sunny, Warm

WELL INFORMATION:

Well Number	MW-2	Date Purged	N/A
Depth to Water - feet(TOC)	—	Purge Method	
Well Depth (feet)	28.85		
Water Volume (gallons)	—	Purge Begin	
Reference Elevation - feet(TOC)	+183.47	Purge End	
Groundwater Elevation (feet)	—	Purge Rate	
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top:
Bottom:
Detection Method:
Collection Method:

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°F)	COLOR/COMMENTS

SAMPLE COLLECTION DATA

Sampling Equipment:

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL

Field Notes: Sampling not possible — well covered with soil and can not be located.

BSK

BSK Job No. P92057.3
Date: September 2003
Figure No. 4.2

WELL FIELD LOG

Well Observation: X **Date:** 09/17/2003
Sample Collection: X **Date:** 09/17/2003

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: WDP
Weather: Sunny, Warm

WELL INFORMATION:

Well Number	MW-3	**Date Purged**	09/17/2003
Depth to Water - feet(TOC)	10.00	**Purge Method**	Electric Submersible Pump
Well Depth (feet)	28.85		
Water Volume (gallons)	3.07	**Purge Begin**	18:37
Reference Elevation - feet(TOC)	+184.03	**Purge End**	18:55
Groundwater Elevation (feet)	174.03	**Purge Rate**	0.70 gpm
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: None Observed
Bottom: None Observed
Detection Method: Visual
Collection Method: Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°C)	COLOR/COMMENTS
18:42	3	584	6.35	19.4	Clear, No Odor
18:47	6	574	6.40	18.6	"
18:52	9	581	6.40	18.3	"
18:55	12	576	6.36	18.4	"

SAMPLE COLLECTION DATA

Sampling Equipment: Electric submersible pump

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
18:55	BTEX/MTBE & TPHg	4-40 ml glass VOA's with HCl	

BSK

BSK Job No. P92057.3
Date: September 2003
Figure No. 4.3

WELL FIELD LOG

Well Observation: X **Date:** 09/17/2003
Sample Collection: X **Date:** 09/17/2003

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: WDP
Weather: Sunny, Warm

WELL INFORMATION:

Well Number	MW-101	**Date Purged**	09/17/2003
Depth to Water - feet(TOC)	9.80	**Purge Method**	Electric Submersible Pump
Well Depth (feet)	29.50		
Water Volume (gallons)	19.2	**Purge Begin**	19:18
Reference Elevation - feet(TOC)	--	**Purge End**	19:50
Groundwater Elevation (feet)	--	**Purge Rate**	1.9 gpm
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: Odor, No Sheen Observed
Bottom: None Observed
Detection Method: Visual
Collection Method: Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°C)	COLOR/COMMENTS
19:26	13	507	6.35	19.2	Clear, With Oder
19:35	26	502	6.36	19.5	"
19:44	39	529	6.35	18.8	"
19:50	57	525	6.34	19.1	"

SAMPLE COLLECTION DATA

Sampling Equipment: Electric Submersible Pump

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
19:50	BTEX/MTBE & TPHg	4-40 ml glass VOA's with HCl	

Field Notes:

BSK

BSK Job No. P92057.3
Date: September 2003
Figure No. 4.4

WELL FIELD LOG

Well Observation: X **Date:** 09/17/2003
Sample Collection: **Date:**

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: WDP
Weather: Sunny, Cool

WELL INFORMATION:

Well Number	MW-5	Date Purged	N/A
Depth to Water - feet(TOC)	11.03	Purge Method	—
Well Depth (feet)	34.5		
Water Volume (gallons)	--	Purge Begin	—
Reference Elevation - feet(TOC)	+183.92	Purge End	—
Groundwater Elevation (feet)	172.89	Purge Rate	—
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top:
Bottom:
Detection Method:
Collection Method:

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP (°F)	COLOR/COMMENTS

SAMPLE COLLECTION DATA

Sampling Equipment:

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL

Field Notes: Groundwater Level Reading Only

BSK

BSK Job No. P92057.3
Date: September 2003
Figure No. 4.5

WELL FIELD LOG

Well Observation: X **Date:** 09/17/2003
Sample Collection: X **Date:** 09/17/2003

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: WDP
Weather: Sunny, Cool

WELL INFORMATION:

Well Number	MW-6	Date Purged	09/17/2003
Depth to Water - feet(TOC)	11.50	Purge Method	Electric Submersible Pump
Well Depth (feet)	26.78		
Water Volume (gallons)	2.49	Purge Begin	17:45
Reference Elevation - feet(TOC)	+183.60	Purge End	18:02
Groundwater Elevation (feet)	172.10	Purge Rate	1.0 gpm
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top: None Observed
Bottom: None Observed
Detection Method: Visual
Collection Method: Bailer

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°C)	COLOR/COMMENTS
17:50	3.0	535	7.17	21.0	Cloudy, No Odor
17:55	6.0	559	6.63	20.2	Clear, No Odor
18:00	9.0	574	6.39	20.1	Clear
18:02	9.5	579	6.30	20.0	Clear

SAMPLE COLLECTION DATA

Sampling Equipment: Electric Submersible Pump

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL
18:02	BTEX/MTBE & TPHg	4-40 ml glass VOA,s with HCl	

Field Notes:

BSK

BSK Job No. P92057.3
Date: September 2003
Figure No. 4.6

WELL FIELD LOG

Well Observation: X **Date:** 09/17/2003
Sample Collection: **Date:**

Project Name: Groundwater Monitoring
Location: Nahas/Former Union 76
Personnel: WDP
Weather: Sunny, Cool

WELL INFORMATION:

Well Number	MW-7	Date Purged	N/A
Depth to Water - feet(TOC)	—	Purge Method	—
Well Depth (feet)	28.0		
Water Volume (gallons)	—	Purge Begin	
Reference Elevation - feet(TOC)	+182.42	Purge End	
Groundwater Elevation (feet)	—	Purge Rate	
Measurement Technique	Solinst Electric Well Sounder		

IMMISCIBLE LAYERS:

Top:
Bottom:
Detection Method:
Collection Method:

WELL DEVELOPMENT/PURGE DATA:

TIME	VOLUME REMOVED (gallons)	ELECTRICAL CONDUCTIVITY (micromhos)	pH	TEMP. (°C)	COLOR/COMMENTS

SAMPLE COLLECTION DATA

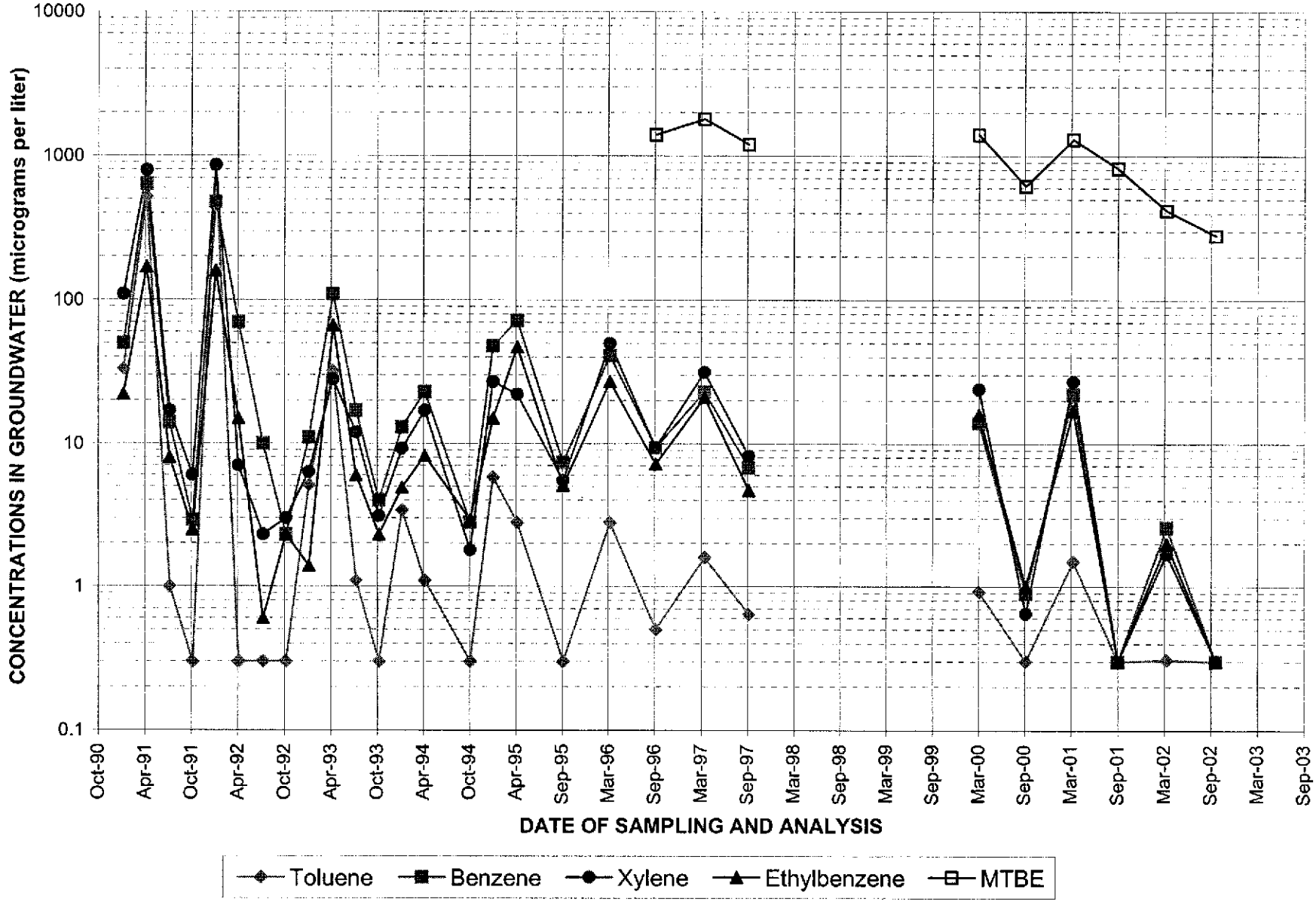
Sampling Equipment:

TIME	ANALYSIS	AMOUNT/CONTAINER USED	SAMPLE INTERVAL

Field Notes: Unable to sample - well has been paved over (?)

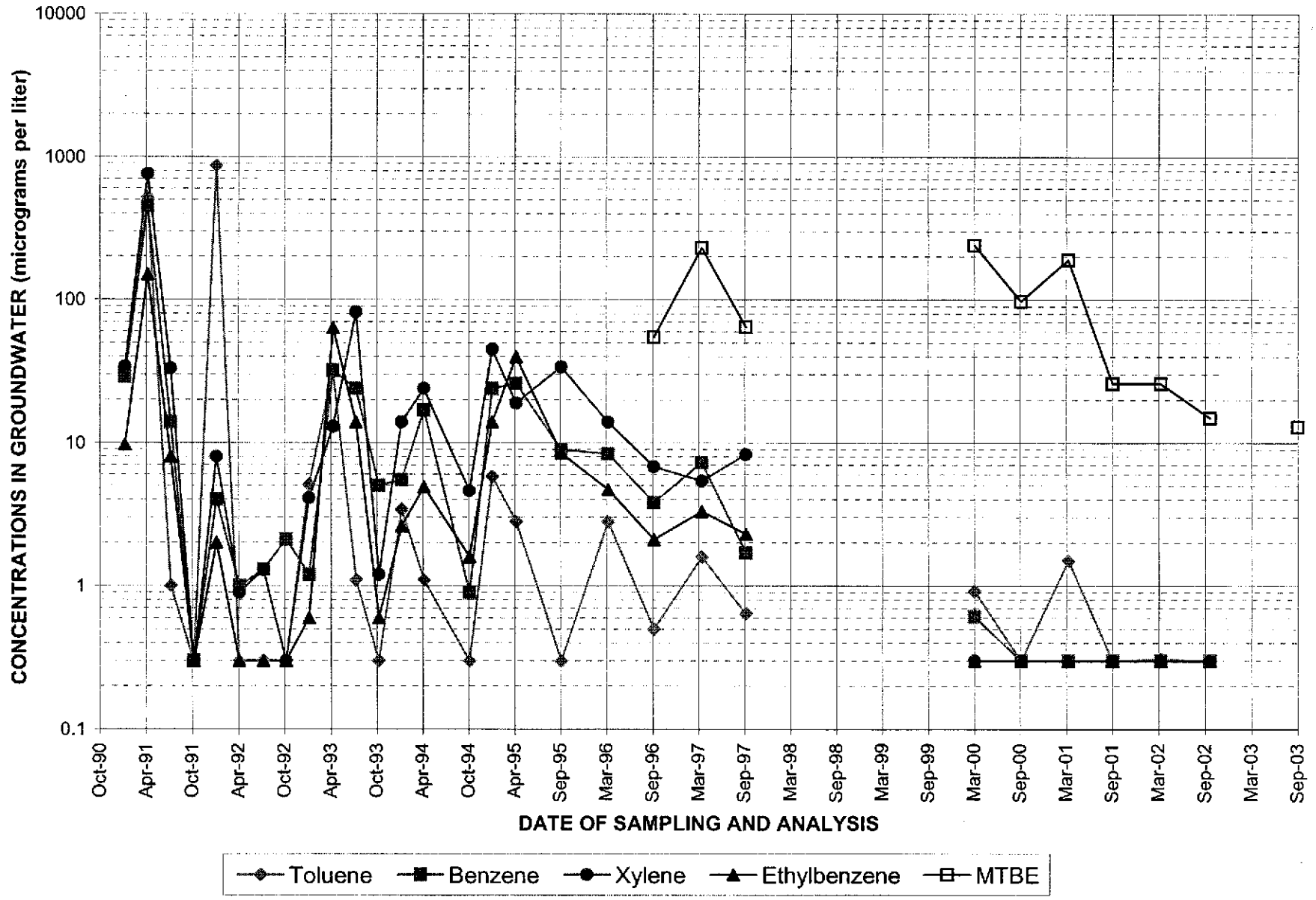
BSK

BTEX/MTBE CONCENTRATIONS
IN GROUNDWATER (MW-2)



Semi-Annual Groundwater Monitoring Report Former Unocal 76 Service Station 20405 and 20629 Redwood Road Castro Valley, California	SEPTEMBER 2003 FIGURE 5 BSK Job No. P92057.3	BSK

BTEX/MTBE CONCENTRATIONS
IN GROUNDWATER (MW-3)



Semi-Annual Groundwater Monitoring Report Former Unocal 76 Service Station 20405 and 20629 Redwood Road Castro Valley, California	SEPTEMBER 2003 FIGURE 6 BSK Job No. P92057.3	BSK

APPENDIX "A"

CHEMICAL TEST DATA SHEETS
AND
PROJECT CHAIN-OF-CUSTODY RECORD
(4 PAGES)
AND
LEVEL II QA/QC SUMMARY REPORT
(7 PAGES)

BSK

BSK ANALYTICAL LABORATORIES

Cover Letter

10/10/2003

Alex Y. Eskandari
BSK and Associates - Pleasanton
1181 Quarry Lane Suite 300
Pleasanton, CA 94566

BSK Submission Number: 2003091180

Dear Alex Y. Eskandari:

BSK Analytical Laboratories adheres to a quality assurance plan that has been approved by the State of California Department of Health Services. Our Environmental Laboratory Accreditation Program (ELAP) certification number is 1180.

BSK Analytical Laboratories has prepared this certificate of analysis in response to your request for analytical services. All information was taken from your Chain of Custody or related correspondence. BSK completed all sample handling and analytical procedures within the Laboratory's standard acceptability criteria with any exceptions noted below.

Sample Comments

Submission	Order	Test / Analyte	Comment
2003091180	369272	Methyl-t-Butyl Ether	MTBE result determined by single point calibration.

If additional clarification of any information is required, please contact your Client Services Representative, Amber Shirey at (800)877-8310 or (559)497-2888.

Sincerely,

BSK Analytical Laboratories

Authorizing Signature(s)

Amber Shirey
Client Services Representative

Cynthia Hamilton
QA/QC Supervisor

Addendum: Laboratory QC Report

1414 Stanislaus Street • Fresno, CA 93706-1623 • Phone 559-497-2888, In CA 800-877-8310 • Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Alex Y. Eskandari
BSK and Associates - Pleasanton
1181 Quarry Lane Suite 300
Pleasanton, CA 94566

Certificate of Analysis

ELAP Certificate #1180

Report Issue Date: 10/10/2003

BSK Submission #: 2003091180

BSK Sample ID #: 369272

Project ID: P920573 Project Desc: Nahas/ Union 76

Submission Comments:

Sample Type: Liquid
Sample Description: MW-6
Sample Comments:

Date Sampled: 09/17/2003
Time Sampled: 0602
Date Received: 09/18/2003

Organics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date
TPH as Gasoline	EPA 8015(M)	**140**	µg/L	50	1	50	09/30/03	09/30/03
Methyl-t-Butyl Ether	EPA 8015/8020	**440**	µg/L	5	1	5	09/30/03	09/30/03
Benzene	EPA 8020	**ND**	µg/L	0.3	1	0.3	09/30/03	09/30/03
Ethylbenzene	EPA 8020	**ND**	µg/L	0.3	1	0.3	09/30/03	09/30/03
Toluene	EPA 8020	**ND**	µg/L	0.3	1	0.3	09/30/03	09/30/03
Total Xylenes	EPA 8020	**ND**	µg/L	0.3	1	0.3	09/30/03	09/30/03
Surrogate								
Fluorobenzene	EPA 8020	**94.0**	% Rec	-	1	N/A	09/30/03	09/30/03

LUFT Comments

TPH as Gasoline	Individual peaks inconsistent with fuel fingerprint

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Cover Letter for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Alex Y. Eskandari
BSK and Associates - Pleasanton
1181 Quarry Lane Suite 300
Pleasanton, CA 94566

Certificate of Analysis

ELAP Certificate #1180

Report Issue Date: 10/10/2003

BSK Submission #: 2003091180

BSK Sample ID #: 369273

Project ID: P920573 Project Desc: Nahas/ Union 76

Submission Comments:

Sample Type: Liquid
Sample Description: MW-3
Sample Comments:

Date Sampled: 09/17/2003
Time Sampled: 0655
Date Received: 09/18/2003

Organics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date
TPH as Gasoline	EPA 8015(M)	**ND**	µg/L	50	1	50	09/30/03	09/30/03
Methyl-t-Butyl Ether	EPA 8015/8020	**13**	µg/L	5	1	5	09/30/03	09/30/03
Benzene	EPA 8020	**ND**	µg/L	0.3	1	0.3	09/30/03	09/30/03
Ethylbenzene	EPA 8020	**ND**	µg/L	0.3	1	0.3	09/30/03	09/30/03
Toluene	EPA 8020	**ND**	µg/L	0.3	1	0.3	09/30/03	09/30/03
Total Xylenes	EPA 8020	**ND**	µg/L	0.3	1	0.3	09/30/03	09/30/03
Surrogate								
Fluorobenzene	EPA 8020	**85.5**	% Rec	-	1	N/A	09/30/03	09/30/03

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Cover Letter for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

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BSK ANALYTICAL LABORATORIES

Alex Y. Eskandari
BSK and Associates - Pleasanton
1181 Quarry Lane Suite 300
Pleasanton, CA 94566

Certificate of Analysis

ELAP Certificate #1180

Report Issue Date: 10/10/2003

BSK Submission #: 2003091180

BSK Sample ID #: 369274

Project ID: P920573 Project Desc: Nahas/ Union 76

Submission Comments:

Sample Type: Liquid
Sample Description: MW-101
Sample Comments:

Date Sampled: 09/17/2003
Time Sampled: 0750
Date Received: 09/18/2003

Organics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date	
TPH as Gasoline	EPA 8015(M)	**3000**	µg/L	50	10	500	10/01/03	10/01/03	
Methyl-t-Butyl Ether	EPA 8015/8020	**850**	µg/L	5	10	50	10/01/03	10/01/03	
Benzene	EPA 8020	**150**	µg/L	0.3	10	3.0	10/01/03	10/01/03	
Ethylbenzene	EPA 8020	**100**	µg/L	0.3	10	3.0	10/01/03	10/01/03	
Toluene	EPA 8020	**ND**	µg/L	0.3	10	3.0	10/01/03	10/01/03	
Total Xylenes	EPA 8020	**110**	µg/L	0.3	10	3.0	10/01/03	10/01/03	
Methyl-t-Butyl Ether	EPA 8260	**1100**	µg/L	5	25	120	10/09/03	10/09/03	H
Surrogate									
Fluorobenzene	EPA 8020	**97.3**	% Rec	-	10	N/A	10/01/03	10/01/03	

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR

H: Analyzed outside of hold time
P: Preliminary result
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Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street Fresno, CA 93706-1623
(559) 497-2888, 800 877-8310 (559) FAX 485-6935

2003091180 09/18/2003
BSK P TAT: Standard
918011

Analyses Request Chain of Custody

Requested Analyses

Client Name: UNOCAL/Union 76	Report Attention: Alex Eskandari	Phone #: (925) 462-4000
Address: 76 BSK - Pleasanton	Project, Quote or PO #: P900573	FAX #: 925 462-6283
City, State, Zip: Castro Valley, CA	Copy to:	System #

LAB use only Sample #	Type	# Cont.	Date Sampled	Time Sampled	Sampled by: Warren D Parmett Sample Description/Location	Comment or Station Code
1	G	3	9/17/03	6:00	MW-6	369272
2	W	4		6:55	MW-3	73
3	W	4	↓	7:50	MW-101	74

* The Highest MTBE Hit

* = The Highest Hit confirm by EPA 8260

- Confirm MTBE HS

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

Additional Services:
Rush Priority: [ ] - 2 Day [ ] - 5 Day
[X] - QC Data package: Level II, III or IV (circle one)
[ ] - Formal Chain of Custody

Additional Services / Charges Authorized By:

(Signature)

Payment Received with Delivery
Date: Amount $
Check #: Initials
Receipt #

Signature	Print Name	Company	Date	Time
Received / Relinquished by:				
Received / Relinquished by:				
Received / Relinquished by:	Warren D Parmett	BSK-G	9/18/03	0942
Received by Laboratory by:		BSK	9/18/03	0942

BSK ANALYTICAL LABORATORIES

QC Summary Report 10/14/2003

BSK Submission : **2003091180**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **09/18/2003**
Project ID : **P920573**
Project Desc : **Nahas/ Union 76**

BSK StarLims Run #: 61977 Instrument ID: **GC1**
Analyst Initials: **IMTIAZA** Method Number: **BTEX_LL**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
Benzene	LCS	N/A	9.8435	µg/L	98		10	ND	130	70	09/30/03	*Acceptable*
Ethylbenzene	LCS	N/A	9.5873	µg/L	95		10	ND	130	70	09/30/03	*Acceptable*
Methyl-t-Butyl Ether	LCS	N/A	40.7392	µg/L	101		40	ND	130	70	09/30/03	*Acceptable*
Toluene	LCS	N/A	9.7928	µg/L	97		10	ND	130	70	09/30/03	*Acceptable*
Total Xylenes	LCS	N/A	28.8767	µg/L	96		30	ND	130	70	09/30/03	*Acceptable*
Benzene	LCSD	N/A	9.9033	µg/L	99	0.61	10	ND	130	70	09/30/03	*Acceptable*
Ethylbenzene	LCSD	N/A	9.7703	µg/L	97	1.9	10	ND	130	70	09/30/03	*Acceptable*
Methyl-t-Butyl Ether	LCSD	N/A	40.1039	µg/L	100	1.6	40	ND	130	70	09/30/03	*Acceptable*
Toluene	LCSD	N/A	9.6140	µg/L	96	1.9	10	ND	130	70	09/30/03	*Acceptable*
Total Xylenes	LCSD	N/A	29.3939	µg/L	97	1.8	30	ND	130	70	09/30/03	*Acceptable*
Benzene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	09/30/03	*Acceptable*
Ethylbenzene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	09/30/03	*Acceptable*
Methyl-t-Butyl Ether	RBLK	N/A	0	µg/L	< 5				5	N/A	09/30/03	*Acceptable*
Toluene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	09/30/03	*Acceptable*
Total Xylenes	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	09/30/03	*Acceptable*
TPH as Gasoline	RBLK	N/A	0	µg/L	< 50				50	N/A	09/30/03	*Acceptable*

Surrogate Results

Analyte	QC Type		Surr. Result			UCL	LCL	Date	
Fluorobenzene	LCS	N/A	89.1	% Rec	89.3	130	70	09/30/03	*Acceptable*
Fluorobenzene	LCSD	N/A	98.0	% Rec	89.3	130	70	09/30/03	*Acceptable*
Fluorobenzene	RBLK	N/A	89.3	% Rec		N/A	N/A	09/30/03	*Acceptable*

BSK StarLims Run #: 61978 Instrument ID: **GC1**
Analyst Initials: **IMTIAZA** Method Number: **BTEX_LL**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
Benzene	LCS	N/A	9.9854	µg/L	99		10	ND	130	70	10/01/03	*Acceptable*
Ethylbenzene	LCS	N/A	9.7137	µg/L	97		10	ND	130	70	10/01/03	*Acceptable*
Methyl-t-Butyl Ether	LCS	N/A	43.6815	µg/L	109		40	ND	130	70	10/01/03	*Acceptable*
Toluene	LCS	N/A	9.9695	µg/L	99		10	ND	130	70	10/01/03	*Acceptable*
Total Xylenes	LCS	N/A	29.6931	µg/L	98		30	ND	130	70	10/01/03	*Acceptable*
Benzene	LCSD	N/A	10.0062	µg/L	100	0.2	10	ND	130	70	10/01/03	*Acceptable*
Ethylbenzene	LCSD	N/A	9.7732	µg/L	97	0.62	10	ND	130	70	10/01/03	*Acceptable*
Methyl-t-Butyl Ether	LCSD	N/A	43.1160	µg/L	107	1.3	40	ND	130	70	10/01/03	*Acceptable*
Toluene	LCSD	N/A	9.7573	µg/L	97	2.1	10	ND	130	70	10/01/03	*Acceptable*

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Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

BSK ANALYTICAL LABORATORIES

QC Summary Report 10/14/2003

BSK Submission : **2003091180**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **09/18/2003**
Project ID : **P920573**
Project Desc : **Nahas/ Union 76**

BSK StarLims Run #: 61978 Instrument ID: **GC1**
Analyst Initials: **IMTIAZA** Method Number: **BTEX_LL**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
Total Xylenes	LCSD	N/A	29.8674	µg/L	99	0.59	30	ND	130	70	10/01/03	*Acceptable*
Benzene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	10/01/03	*Acceptable*
Ethylbenzene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	10/01/03	*Acceptable*
Methyl-t-Butyl Ether	RBLK	N/A	0	µg/L	< 5				5	N/A	10/01/03	*Acceptable*
Toluene	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	10/01/03	*Acceptable*
Total Xylenes	RBLK	N/A	0	µg/L	< 0.3				0.3	N/A	10/01/03	*Acceptable*
TPH as Gasoline	RBLK	N/A	0	µg/L	< 50				50	N/A	10/01/03	*Acceptable*

Surrogate Results

Analyte	QC Type		Surr. Result					UCL	LCL	Date	
Fluorobenzene	LCS	N/A	97.5	% Rec			86.3	130	70	10/01/03	*Acceptable*
Fluorobenzene	LCSD	N/A	97.2	% Rec			86.3	130	70	10/01/03	*Acceptable*
Fluorobenzene	RBLK	N/A	86.3	% Rec				N/A	N/A	10/01/03	*Acceptable*

BSK StarLims Run #: 62386 Instrument ID: **VGCMS2**
Analyst Initials: **CHERYLC** Method Number: **8260**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
1,1-Dichloroethene	LCS	N/A	9.0	µg/L	72		12.5	ND	111.4	72.8	10/09/03	*OOS-Low*
Benzene	LCS	N/A	12.9	µg/L	103		12.5	ND	118	84	10/09/03	*Acceptable*
Chlorobenzene	LCS	N/A	13.3	µg/L	106		12.5	ND	117.8	83.6	10/09/03	*Acceptable*
Toluene	LCS	N/A	13.1	µg/L	104		12.5	ND	119.2	76.4	10/09/03	*Acceptable*
Trichloroethene (TCE)	LCS	N/A	13.1	µg/L	104		12.5	ND	121.9	83.8	10/09/03	*Acceptable*
1,1-Dichloroethene	LCSD	N/A	9.2	µg/L	73	2.1	12.5	ND	111.4	72.8	10/09/03	*Acceptable*
Benzene	LCSD	N/A	12.8	µg/L	102	0.78	12.5	ND	118	84	10/09/03	*Acceptable*
Chlorobenzene	LCSD	N/A	13.3	µg/L	106	0.0	12.5	ND	117.8	83.6	10/09/03	*Acceptable*
Toluene	LCSD	N/A	12.4	µg/L	99	5.4	12.5	ND	119.2	76.4	10/09/03	*Acceptable*
Trichloroethene (TCE)	LCSD	N/A	13.7	µg/L	109	4.4	12.5	ND	121.9	83.8	10/09/03	*Acceptable*
1,1,1,2-Tetrachloroethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,1,1-Trichloroethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,1,2,2-Tetrachloroethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,1,2-Trichloroethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,1-Dichloro-2-propanone	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,1-Dichloroethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,1-Dichloroethene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,1-Dichloropropene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*

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BSK ANALYTICAL LABORATORIES

QC Summary Report 10/14/2003

BSK Submission : **2003091180**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **09/18/2003**
Project ID : **P920573**
Project Desc : **Nahas/ Union 76**

BSK StarLims Run #: 62386 Instrument ID: **VGCMS2**
Analyst Initials: **CHERYLC** Method Number: **8260**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
1,2,3-Trichlorobenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,2,3-Trichloropropane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,2,4-Trichlorobenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,2,4-Trimethylbenzene	LDUP	372279	95.7	µg/L	4			100	30	N/A	10/09/03	*Acceptable*
1,2-Dibromo-3-chloropropane (DBC)	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,2-Dibromoethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,2-Dichlorobenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,2-Dichloroethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,2-Dichloropropane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,3,5-Trimethylbenzene	LDUP	372279	26.9	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,3-Dichlorobenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,3-Dichloropropane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,4-Dichlorobenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1-Chlorobutane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
2,2-Dichloropropane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
2-Butanone	LDUP	372279	138	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
2-Chlorotoluene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
2-Hexanone	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
3-Chloropropene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
4-Chlorotoluene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
4-Methyl-2-pentanone	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Acetone	LDUP	372279	753	µg/L	11			670	30	N/A	10/09/03	*Acceptable*
Benzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Bromobenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Bromochloromethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Bromodichloromethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Bromoform	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Bromomethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Carbon Disulfide	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Carbontetrachloride	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Chlorobenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Chloroethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Chloroform	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Chloromethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
cis-1,2-Dichloroethene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
cis-1,3-Dichloropropene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Dibromochloromethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*

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BSK ANALYTICAL LABORATORIES

QC Summary Report 10/14/2003

BSK Submission : **2003091180**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **09/18/2003**
Project ID : **P920573**
Project Desc : **Nahas/ Union 76**

BSK StarLims Run #: 62386 Instrument ID: **VGCMS2**
Analyst Initials: **CHERYLC** Method Number: **8260**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
Dibromomethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Dichlorodifluoromethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Diethyl ether	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Ethylbenzene	LDUP	372279	5.60	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Ethylmethacrylate	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Hexachlorobutadiene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Hexachloroethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Iodomethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Isopropylbenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
m,p-Xylenes	LDUP	372279	20.8	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Methyl-t-Butyl Ether	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Methylacrylate	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Methylene Chloride	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Methylmethacrylate	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
n-Butylbenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
n-Propylbenzene	LDUP	372279	14.6	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Naphthalene	LDUP	372279	13.7	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Nitrobenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
o-Xylene	LDUP	372279	9.20	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
p-Isopropyltoluene	LDUP	372279	5.80	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Pentachloroethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
sec-Butylbenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Styrene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
tert-Butylbenzene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Tetrachloroethene (PCE)	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Toluene	LDUP	372279	31.3	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
trans-1,2-Dichloroethene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
trans-1,3-Dichloropropene	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Trichloroethene (TCE)	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Trichloroflouromethane	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
Vinyl Chloride	LDUP	372279	0	µg/L	N/A			ND	30	N/A	10/09/03	*Acceptable*
1,1,1,2-Tetrachloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,1,1-Trichloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,1,2,2-Tetrachloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,1,2-Trichloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,1-Dichloro-2-propanone	RBLK	N/A	0	µg/L	< 25				25	N/A	10/09/03	*Acceptable*
1,1-Dichloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*

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RBLK: Reagent (Method) Blank

BSK ANALYTICAL LABORATORIES

QC Summary Report 10/14/2003

BSK Submission : **2003091180**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **09/18/2003**
Project ID : **P920573**
Project Desc : **Nahas/ Union 76**

BSK StarLims Run #: 62386 Instrument ID: **VGCMS2**
Analyst Initials: **CHERYLC** Method Number: **8260**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
1,1-Dichloroethene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,1-Dichloropropene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,2,3-Trichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,2,3-Trichloropropane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,2,4-Trichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,2,4-Trimethylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,2-Dibromo-3-chloropropane (DBC)	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,2-Dibromoethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,2-Dichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,2-Dichloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,2-Dichloropropane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,3,5-Trimethylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,3-Dichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,3-Dichloropropane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1,4-Dichlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
1-Chlorobutane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
2,2-Dichloropropane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
2-Butanone	RBLK	N/A	0	µg/L	< 25				25	N/A	10/09/03	*Acceptable*
2-Chlorotoluene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
2-Hexanone	RBLK	N/A	0	µg/L	< 25				25	N/A	10/09/03	*Acceptable*
3-Chloropropene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
4-Chlorotoluene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
4-Methyl-2-pentanone	RBLK	N/A	0	µg/L	< 25				25	N/A	10/09/03	*Acceptable*
Acetone	RBLK	N/A	0	µg/L	< 25				25	N/A	10/09/03	*Acceptable*
Benzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Bromobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Bromochloromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Bromodichloromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Bromoform	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Bromomethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Carbon Disulfide	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Carbontetrachloride	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Chlorobenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Chloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Chloroform	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Chloromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
cis-1,2-Dichloroethene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*

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BSK ANALYTICAL LABORATORIES

QC Summary Report 10/14/2003

BSK Submission : **2003091180**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **09/18/2003**
Project ID : **P920573**
Project Desc : **Nahas/ Union 76**

BSK StarLims Run #: 62386 Instrument ID: **VGCMS2**
Analyst Initials: **CHERYLC** Method Number: **8260**

Analyte Results

Analyte	QC Type	Matrix Spike ID	Result	Units	% Rec or RPD	Spike RPD	Spk Conc	Matrix Conc	UCL	LCL	Date	
cis-1,3-Dichloropropene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Dibromochloromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Dibromomethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Dichlorodifluoromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Diethyl ether	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Ethylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Ethylmethacrylate	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Hexachlorobutadiene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Hexachloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Iodomethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Isopropylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
m,p-Xylenes	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Methyl-t-Butyl Ether	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Methylacrylate	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Methylene Chloride	RBLK	N/A	0	µg/L	< 25				25	N/A	10/09/03	*Acceptable*
Methylmethacrylate	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
n-Butylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
n-Propylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Naphthalene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Nitrobenzene	RBLK	N/A	0	µg/L	< 25				25	N/A	10/09/03	*Acceptable*
o-Xylene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
p-Isopropyltoluene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Pentachloroethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
sec-Butylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Styrene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
tert-Butylbenzene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Tetrachloroethene (PCE)	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Toluene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
trans-1,2-Dichloroethene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
trans-1,3-Dichloropropene	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Trichloroethene (TCE)	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Trichloroflouromethane	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*
Vinyl Chloride	RBLK	N/A	0	µg/L	< 5				5	N/A	10/09/03	*Acceptable*

Run Comments

Recovery of one LCS low for 1,1DCE; data accepted based on duplicate LCS.

%Rec: Percent Recovered
RPD: Relative Percent Difference
UCL: Upper Control Limit
LCL: Lower Control Limit
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank

BSK ANALYTICAL LABORATORIES

QC Summary Report 10/14/2003

BSK Submission : **2003091180**
Client : **BSK and Associates - Pleasanto**
Date Submitted : **09/18/2003**
Project ID : **P920573**
Project Desc : **Nahas/ Union 76**

BSK StarLims Run #: 62386 Instrument ID: **VGCMS2**
Analyst Initials: **CHERYLC** Method Number: **8260**

Surrogate Results

Analyte	QC Type		Surr. Result			UCL	LCL	Date	
Bromofluorobenzene	LCS	N/A	101.5	% Rec	100	130	70	10/09/03	*Acceptable*
Dibromofluoromethane	LCS	N/A	83.8	% Rec	90	130	70	10/09/03	*Acceptable*
Toluene-d8	LCS	N/A	99.8	% Rec	100	130	70	10/09/03	*Acceptable*
Bromofluorobenzene	LCSD	N/A	100.8	% Rec	100	130	70	10/09/03	*Acceptable*
Dibromofluoromethane	LCSD	N/A	98.1	% Rec	90	130	70	10/09/03	*Acceptable*
Toluene-d8	LCSD	N/A	98.9	% Rec	100	130	70	10/09/03	*Acceptable*
Bromofluorobenzene	LDUP	372279	166	% Rec	171	130	70	10/09/03	*OOS-High*
Dibromofluoromethane	LDUP	372279	99	% Rec	70	130	70	10/09/03	*Acceptable*
Toluene-d8	LDUP	372279	86	% Rec	85	130	70	10/09/03	*Acceptable*
Bromofluorobenzene	RBLK	N/A	103	% Rec		N/A	N/A	10/09/03	*Acceptable*
Dibromofluoromethane	RBLK	N/A	90	% Rec		N/A	N/A	10/09/03	*Acceptable*
Toluene-d8	RBLK	N/A	102	% Rec		N/A	N/A	10/09/03	*Acceptable*

Approved by: Cynthia Hamilton

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LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Parent Sample: Sample used as background matrix for MS/MSD
OOS-High: QC Result Above UCL
OOS-Low: QC Result Below LCL
MS: Matrix Spike
MSD: Matrix Spike Duplicate
RBLK: Reagent (Method) Blank