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April 11, 1997

VIA FEDERAL EXPRESS

Ms. Juliet Shin
Hazardous Materials Specialist
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Re: STID 3856; 1055 Eastshore Highway, Albany, CA

Dear Ms. Shin:

Enclosed is AllWest's Groundwater Monitoring Report for the fourth quarter of 1996. Please call me if you have any comments concerning the latest monitoring data.

Sincerely,

John S. Hahn

Enclosure

cc: John Frank (w/enclosure)
Marc Cunningham (w/o enclosure)
John T. Lynch (w/o enclosure)
Craig Denny (w/enclosure)

8072302

AllWest

AllWest Environmental, Inc.

Specialists in Environmental Due Diligence and Remedial Services

One Sutter Street, Suite 600
San Francisco, CA 94104
Tel 415.391.2510
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GROUNDWATER MONITORING REPORT

Fourth Quarter 1996

1055 Eastshore Highway
Albany, California

ALLWEST PROJECT 96208.28
March 21, 1997

PREPARED BY:

Keith Craig
Project Manager

REVIEWED BY:

12/31/97

Long Ching, PE
Senior Project Manager

AllWest

TABLE OF CONTENTS

I.	INTRODUCTION	Page 1
II.	SITE HISTORY	Page 1
III.	GROUNDWATER SAMPLING ACTIVITIES	Page 2
IV.	LABORATORY TEST RESULTS	Page 2
V.	CONCLUSIONS	Page 3
VI.	REPORT LIMITATIONS	Page 3

TABLES

Table 1 - Summary of Groundwater Elevation Measurements
Table 2 - Summary of Groundwater Chemical Analyses Results

FIGURES

Figure 1 - Site Regional Map
Figure 2 - Site Vicinity Map
Figure 3 - Well Location Map
Figure 4 - Groundwater Contour Map

APPENDICES

Appendix A - Groundwater Sampling Protocol
Appendix B - Groundwater Sampling Field Logs
Appendix C - Laboratory Test Results and Chain-of-Custody Records

AllWest

MONITORING WELLS SAMPLING REPORT

Fourth Quarter 1996

1055 Eastshore Highway
Albany, California

I. INTRODUCTION

This report presents the Fourth Quarter 1996 results of a quarterly groundwater monitoring program performed by *AllWest Environmental* at 1055 Eastshore Highway, Albany, California. The monitoring program was initiated in response to an *Alameda County Department of Environmental Health* (*ACDEH*) request for quarterly sampling. The objective of the sampling program was to investigate the groundwater in the vicinity of the former underground storage tank (UST).

The scope of *AllWest's* services included sampling of four wells (MW-1 through MW-4), the measuring of groundwater levels in all four wells, and the submittal of the samples to a state certified laboratory, *Global Environmental Laboratory, Inc.* (*Global Lab*). The samples were submitted for analysis of total petroleum hydrocarbons as gasoline (TPH-g), Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX). After receipt of the analytical results, a written report was prepared to present the results.

II. SITE HISTORY

The subject property lies in the western-most area of Albany, Alameda County, California in an industrial area (See Figures 1 and 2). The subject property is located on the east side of Eastshore Highway, approximately 200 feet south of the Albany off-ramp from Highway I-80. San Francisco Bay is located approximately 2,000 feet west of the subject property.

The subject property facility currently is occupied by the City of Albany Corporation Yard. One underground storage tank (UST) containing gasoline was removed by *Resna Industries* on September 2, 1992. The former UST was located south of the building. A generalized site plan with the former UST location is presented on Figure 3.

Soil near the UST excavation was removed in September 1992. A preliminary site assessment (PSA) was conducted in July 1994. The PSA consisted of the advancement of seven boreholes, the installation of three groundwater monitoring wells (MW-1 through MW-3), and the submittal of soil and groundwater samples to an analytical laboratory for analyses. The PSA indicated that gasoline constituents were present in soil and groundwater at the site.

In June 1995, monitoring well MW-4 was installed and sampled. All four monitoring wells were sampled in June, September and December of 1995, and March, June, and September of 1996 as requested by the *ACDEH*. Additionally, groundwater elevations were measured each quarter as part of the quarterly groundwater monitoring program.

III. GROUNDWATER SAMPLING ACTIVITIES

Activities for the Fourth Quarter 1996 monitoring event included sampling and measuring the groundwater elevation of all four monitoring wells (MW-1 through MW-4). The work was conducted by *AllWest* personnel on January 17, 1997.

AllWest's groundwater sampling protocols, presented in Appendix A of this report, were followed. Groundwater parameters including conductivity, temperature, and pH were collected at three gallon intervals and recorded on the sampling logs (See Appendix B). At least three well casing volumes were purged prior to sampling. After purging, three 40-milliliter samples were collected from each of the four monitoring wells. No product sheen was noted.

The January 17, 1997 groundwater levels as well as the cumulative groundwater level measurements from wells MW-1 through MW-4 are presented in Table 1. Groundwater flow direction was calculated to be towards the southwest with an average gradient of 0.005 ft/ft.

IV. LABORATORY TEST RESULTS

The four collected water samples were submitted to a State of California certified analytical laboratory, *Global Environmental Laboratory, Inc.* (*Global Lab*), of Fremont, California. All water samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) and Benzene, Toluene, Ethyl Benzene, and Xylene (BTEX).

The laboratory results indicated concentrations of TPH-g at 9,700 μg/L (approximately equivalent to parts per billion [ppb]) in well MW-2 only. No TPH-g was detected in samples from MW-1, MW-3, and MW-4 at or above the laboratory reporting limit of 50 ppb. BTEX concentrations for MW-2 were reported as 1,200 ppb Benzene, 140 ppb Toluene, 440 ppb Ethyl Benzene, and 1,300 ppb Xylene. No BTEX concentrations were detected in MW-1, MW-3, and MW-4 at or above the laboratory reporting limit of 0.5 ppb.

A review of the laboratory internal quality assurance/quality control (QA/QC) information indicates the spike data were within the laboratory recovery limits. The sample was analyzed within the acceptable EPA holding time. Therefore, the laboratory results reported by *Global* are considered to be representative and of good quality.

A summary of analytical results for wells MW-1 through MW-4 to date are presented in Table 2. A copy of the laboratory test reports and Chain-of-Custody documents are displayed in Appendix C.

V. CONCLUSIONS

As indicated by the laboratory test results, low levels of TPH-g and BTEX were detected in groundwater samples from monitoring well MW-2. The concentrations of TPH-g and BTEX in well MW-2 are of the same magnitude as the previous results. The non-detectable results from MW-1, MW-3 and MW-4 continue to indicate the extent of contaminated groundwater is limited and within the immediate vicinity of MW-2.

VI. REPORT LIMITATIONS

The work described in this report has been performed accordance with generally accepted engineering principles an practices. The conclusions and recommendations contained herein are presented based on environmental conditions of the site and laboratory test results of the groundwater sample. It must be recognized that changes can occur in groundwater conditions due to seasonal variations, or other reasons. Furthermore, the distribution of chemical concentrations in the groundwater can vary both temporally and spatially. The chemical analyses results are valid as of the date and at the sampling location only. *AllWest* cannot be held accountable for the accuracy of the test data from an independent laboratory, nor for any analyte quantities falling below the recognized standard detection limits for the method utilized by the independent laboratory.

TABLE 1
CUMULATIVE SUMMARY OF GROUNDWATER ELEVATION MEASUREMENTS

1055 Eastshore Highway
Albany, California

Well Number and Sampling Date	Well Casing Elevation	Depth to Water (In feet)	Groundwater Elevation (Assumed Datum equals 12')	Change Since Last Measurement (In feet)	Average Hydraulic Gradient
MW-1					
6/28/94	6.62 feet	6.06	0.56		0.009 ft/ft SSE
6/29/94		6.04	0.58	+0.02	0.004 ft/ft WNW
7/20/94		6.08	0.54	-0.04	0.003 ft/ft S
6/9/95		4.85	1.77	+1.53	0.004 ft/ft SW
6/29/95		4.79	1.90	+0.13	0.005 ft/ft SW
9/7/95		5.90	0.72	-1.18	0.004 ft/ft SW
12/20/95		3.98	2.64	+1.92	0.005 ft/ft SW
3/22/96		3.55	3.07	+0.43	0.007 ft/ft SE
6/21/96		5.20	1.42	-1.65	0.005 ft/ft W
9/17/96		5.86	0.76	-0.66	0.003 ft/ft NW
1/17/97		3.35	3.27	+2.51	0.005 ft/ft SW
MW-2					
6/28/94	6.92 feet	6.26	0.66		0.009 ft/ft SSE
6/29/94		6.34	0.58	-0.08	0.004 ft/ft WNW
7/20/94		6.33	0.59	+0.01	0.003 ft/ft S
6/9/95		5.13	1.79	+1.20	0.004 ft/ft SW
6/29/95		4.99	1.93	+0.14	0.005 ft/ft SW
9/7/95		6.23	0.69	-1.24	0.004 ft/ft SW
12/20/95		4.12	2.80	+2.11	0.005 ft/ft SW
3/22/96		3.70	3.33	+0.42	0.007 ft/ft SE
6/21/96		5.44	1.48	-1.85	0.005 ft/ft W
9/17/96		6.11	0.81	-0.67	0.003 ft/ft NW
1/17/97		3.51	3.41	+2.60	0.005 ft/ft SW
MW-3					
6/28/94	7.02 feet	6.30	0.72		0.009 ft/ft SSE
6/29/94		6.29	0.73	+0.01	0.004 ft/ft WNW
7/20/94		6.36	0.66	-0.07	0.003 ft/ft S
6/9/95		5.16	1.86	+1.20	0.004 ft/ft SW
6/29/95		5.03	1.99	+0.13	0.005 ft/ft SW
9/7/95		6.42	0.60	-1.39	0.004 ft/ft SW
12/20/95		4.02	3.00	+1.61	0.005 ft/ft SW
3/22/96		3.67	3.35	+0.35	0.007 ft/ft SE
6/21/96		5.45	1.57	-1.78	0.005 ft/ft W
9/17/96		6.17	0.85	-0.72	0.003 ft/ft NW
1/17/97		3.46	3.56	+2.71	0.005 ft/ft SW
MW-4					
6/29/95	6.46 feet	4.60	1.86		0.005 ft/ft SW
9/7/95		5.79	0.64	-1.22	0.004 ft/ft SW
12/20/95		3.66	2.80	+2.16	0.005 ft/ft SW
3/22/96		3.29	3.17	+0.37	0.007 ft/ft SE
6/21/96		4.93	1.53	-1.64	0.005 ft/ft W
9/17/96		5.62	0.84	-0.69	0.003 ft/ft NW
1/17/97		3.07	3.39	+2.55	0.005 ft/ft SW

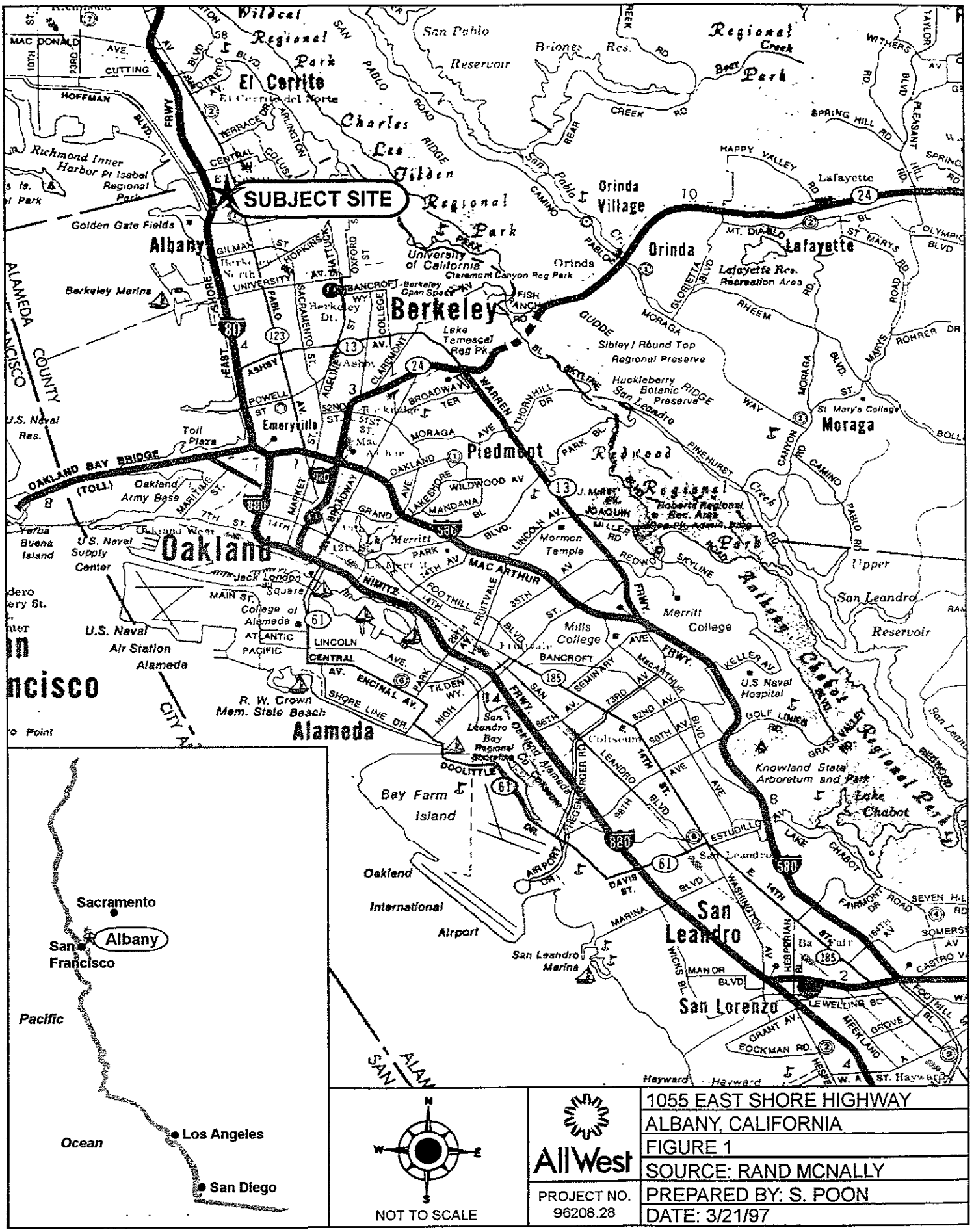
Notes: MW-4 was installed in June 1995.

TABLE 2
CUMULATIVE SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

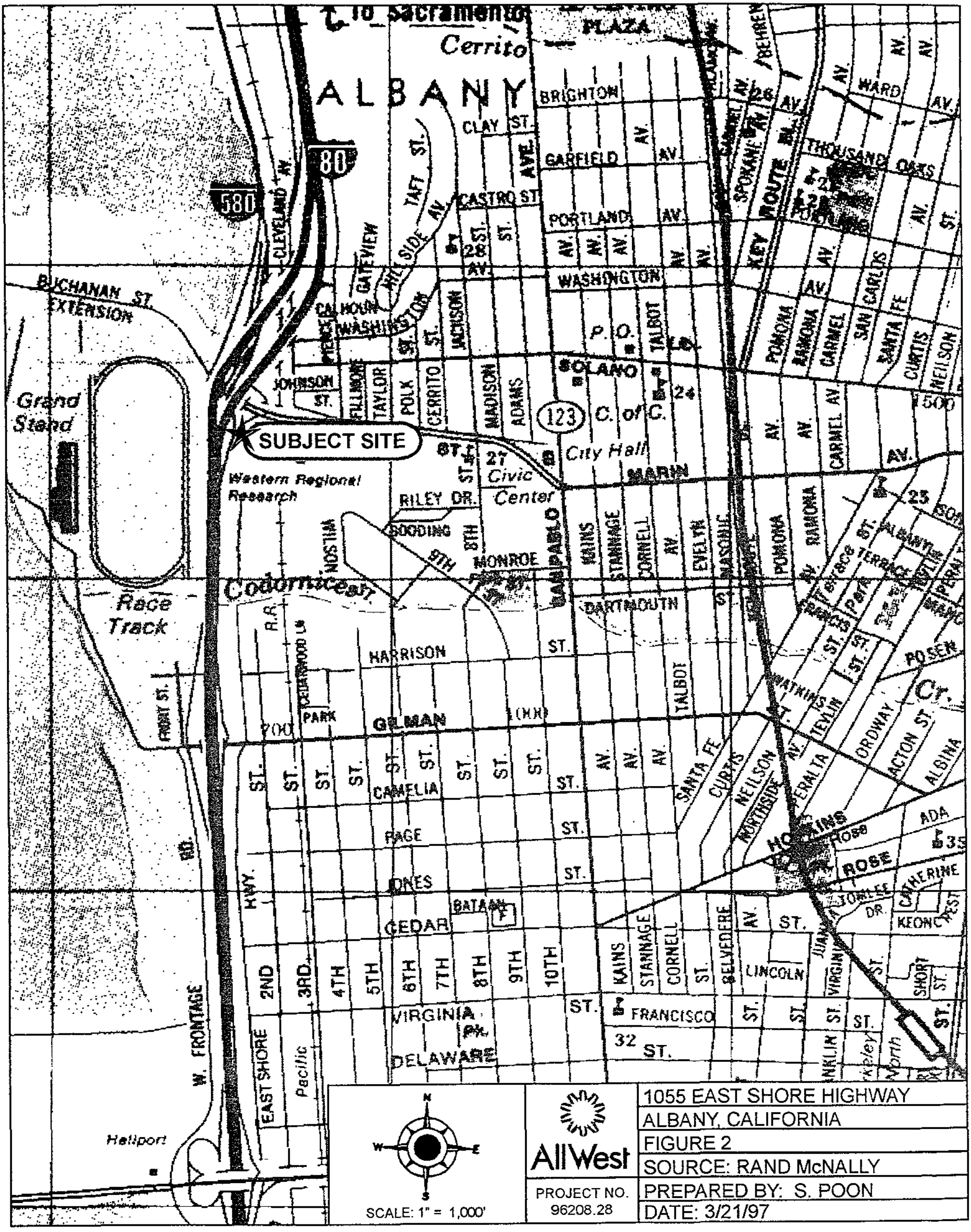
1055 Eastshore Highway
Albany, California

Monitoring Well No. and Sampling Date	TPH-Gasoline	Benzene	Toluene	Ethyl Benzene	Xylenes
MW-1					
6/23/94	ND (<50)	ND (<0.3)	0.60	2.5	9.0
6/29/95	ND (<50)	0.8	ND (<0.5)	1.3	3.2
9/7/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
12/20/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
3/22/96	ND (<50)	ND (<0.5)	2.5	ND (<0.5)	2.2
6/21/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/17/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
1/17/97	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
MW-2					
6/23/94	330	130	11	20	10
6/29/95	3,800	260	9.8	190	310
9/7/95	2,700	100	1.9	92	210
12/20/95	1,500	170	50	30	170
3/22/96	4,500	920	30	360	1,300
6/21/96	1,100	140	1.6	62	160
9/17/96	190	9.0	8.2	10	26
1/17/97	9,700	1,200	140	440	1,300
MW-3					
6/23/94	52.0	ND (<0.3)	ND (<0.3)	4.0	13
6/29/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/7/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
12/20/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
3/22/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
6/21/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/17/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
1/17/97	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
MW-4					
6/29/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/7/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
12/20/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
3/22/96	60	0.8	2.8	1.1-ppb	4.7
6/21/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/17/96	ND (<50)	ND (<0.5)	2.3	ND (<0.5)	1.4
1/17/97	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)

Notes: ND = Not-detected at or above the laboratory reporting limit.
All numerical values are in units of μg/L, approximately equivalent to ppb.
MW-4 installed June 1995.



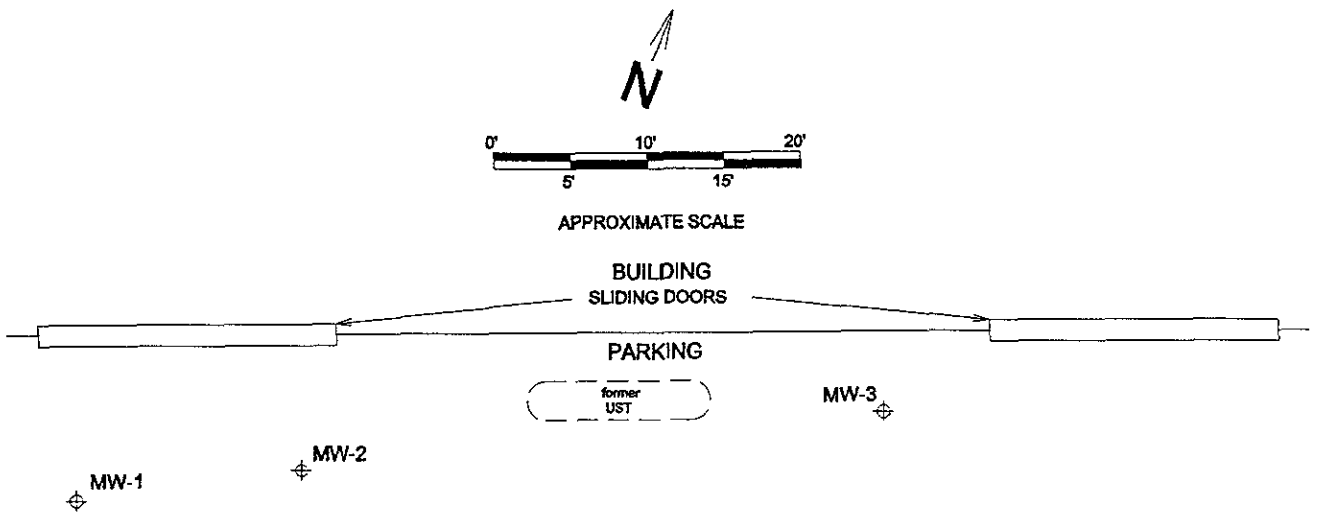
AllWest	1055 EAST SHORE HIGHWAY
	ALBANY, CALIFORNIA
	FIGURE 1
	SOURCE: RAND MCNALLY
PROJECT NO. 96208.28	PREPARED BY: S. POON
	DATE: 3/21/97



AllWest

PROJECT NO.
96208.28

1055 EAST SHORE HIGHWAY
ALBANY, CALIFORNIA
FIGURE 2
SOURCE: RAND McNALLY
PREPARED BY: S. POON
DATE: 3/21/97



WELL LOCATION MAP

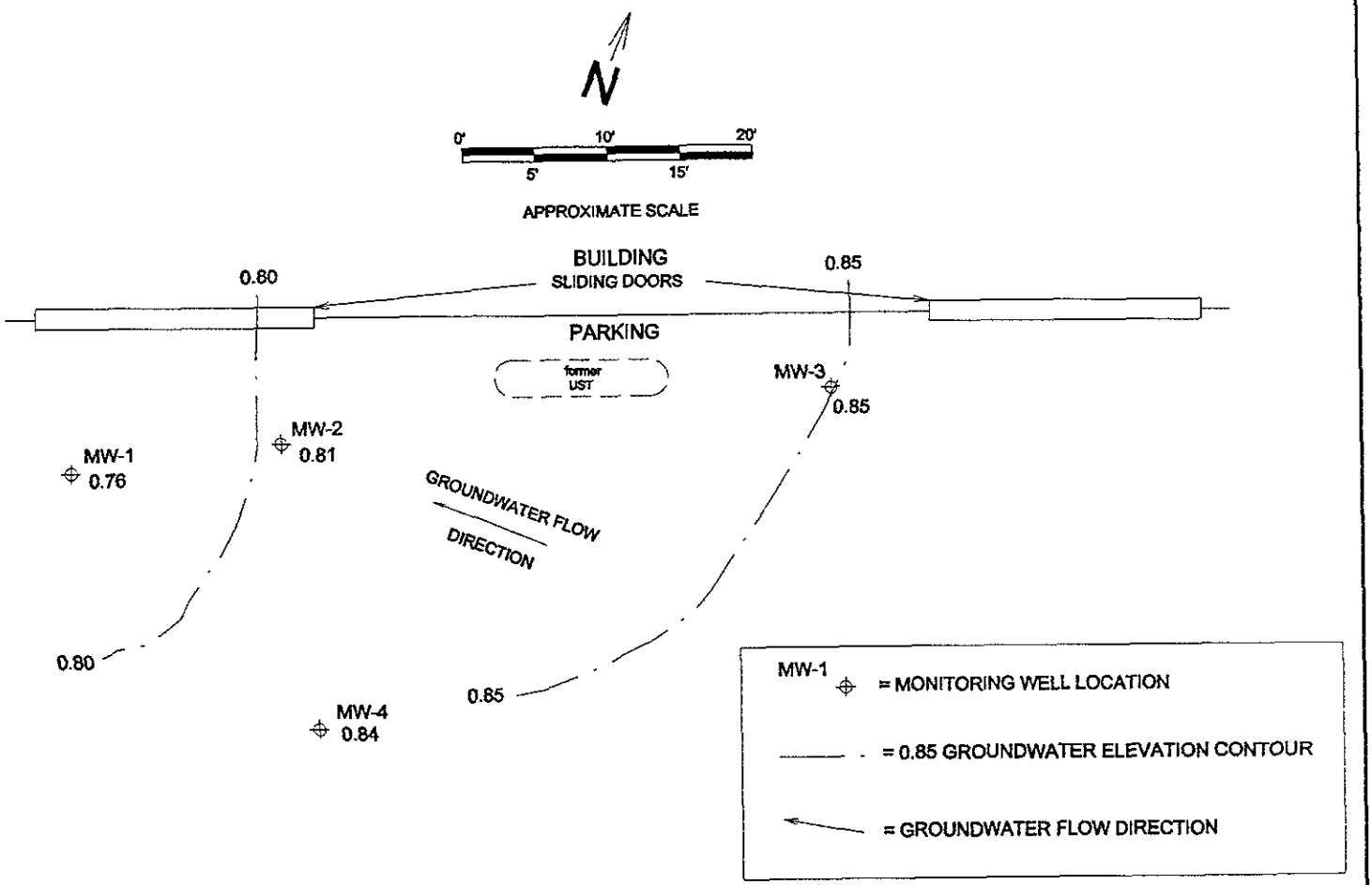
EXPLANATION

MW-1 ⊕ = MONITORING WELL LOCATION

AllWest

PROJECT NO. 96208.28

1055 EAST SHORE HIGHWAY
ALBANY, CALIFORNIA
FIGURE 3
SOURCE: ALLWEST
DRAWN BY: S. POON
DATE: 3/21/97



GROUNDWATER CONTOUR MAP

AllWest

PROJECT NO. 96208.28

1055 EASTSHORE HIGHWAY
ALBANY, CALIFORNIA
FIGURE 4
SOURCE: ALLWEST
DRAWN BY: S. POON
DATE: 3/21/97

APPENDIX A

GROUNDWATER SAMPLING PROCEDURES

Upon arriving at the groundwater monitoring well site, each monitoring well vault and well casing are first examined for damage which could render the well inoperable. Any water collected during the recent rains were purged from the well vault to avoid contamination from rain water. The upper end-cap was then removed and an organic vapor meter (OVM) was used to detect hydrocarbon vapor that might exist inside the well casing. The reading of the OVM was then recorded onto the groundwater sampling field log. After an appreciable time for groundwater levels to equilibrate, electric water level sounder was lowered into the well casing to measure the depth to water to the nearest 0.01 feet. A clear polyethylene bailer was then lowered into the well casing and partially submerged. Upon retrieval of the clear bailer, the surface of the water column retained in the bailer was carefully examined for floating product or product sheen.

After initial measurements were completed and recorded, each monitoring well was purged by an electrical submersible pump or decontaminated teflon bailer. A minimum of 3 well volumes of groundwater was purged. Groundwater quality parameters (temperature, pH, and conductivity) were monitored with a combination meter after each well volume was removed. Purging was considered complete when purging indicators were stabilized (consecutive readings within 10% of each other) or the purged water was relatively free of sediments. All purged water was temporarily stored on-site in labeled 55-gallon drums pending test results to determine the proper disposal method. If no contamination was found then the purge water was disposed of as nonhazardous.

Groundwater sampling was conducted after the water level in the well recovered to at least 80% of the initial level that was recorded before purging. The groundwater sample was collected using a disposable bailer, which was discarded after the sampling event. Upon retrieval of the disposable bailer, the retained water was carefully transferred to appropriate glass container(s) (three 40-ml VOAs) furnished by the analytical laboratory. A bottom emptying device was placed on the bailer to minimize the loss of volatile organic compounds during transfer. All sample containers were fitted with teflon lined septum/cap and filled such that no headspace was present. After the water sample was properly transferred to the appropriate containers, the containers were labeled and immediately placed on ice in an insulated cooler to preserve the chemical characteristics of the sample.

To prevent cross contamination, all groundwater sampling equipment that came into contact with the groundwater was thoroughly cleaned by washing in Alconox (a non-phosphate detergent) solution and double rinsed with distilled water prior to each well sampling event. Groundwater samples were stored and transported in an insulated cooler filled with crushed ice. The analytical laboratory collected the samples from the site or from the *AllWest* office. The samples were delivered to the analytical laboratory by a special courier of the laboratory. All samples were transported under strict Chain-of-Custody document protocol from the time of sample collection to the time of arrival at the laboratory.

Groundwater Monitoring Well Sampling Field Log

Project No.: 96208.28 Project Name: X Monitor

Well No.: MW-1 Well Location: _____

Well Depth: 20.0 (ft.) Casing Diameter: 2" (in.)

Depth to Water: 3.35 (ft.) Date: 1-17-97 Time: _____

Water Column in Well: 16.65 (ft.) Well Volume: 2.66 (gal.)

Odor? No Free Product? No Thickness: _____

Purging Method: Hand Pump ____ Submersible Pump X Bailer ____ Other ____

Time	pH	Conduc. (μS)	Temp. (°F)	Water Level	Volume Removed	Remark
1420	7.60	2870	63.5		0.5	
1422	7.25	2900	64.6		2.5	
1424	7.10	2930	64.7		5.0	
1426	7.00	2930	64.7		7.5	
1428	7.01	2950	64.8		10.0	Dewatered
1431	7.01	3000	64.7		12.5	

Purging Start Time: 1420 Purging Stop Time: 1432

Total Volume Purged: 12.5 (gal.) Well Dewater? Yes

Water Level Prior to Sampling: 4.50 (ft.) Time: 1445

Sampling Method: Teflon Bailer ____ Disposable Bailer X Sampling Pump ____

Sample Collected: 3 - 40 ml VOAs Sample No.: MW-1

Remarks: _____

Sampler: Keith B. Craig Date/Time: 1-17-97

Groundwater Monitoring Well Sampling Field Log

Project No.: 96208.28 Project Name: X Monitor

Well No.: MW-2 Well Location: _____

Well Depth: 24.5 (ft.) Casing Diameter: 2" (in.)

Depth to Water: 3.51 (ft.) Date: 1-17-97 Time: _____

Water Column in Well: 20.99 (ft.) Well Volume: 3.36 (gal.)

Odor? Slight HC Free Product? No Thickness: _____

Purging Method: Hand Pump ____ Submersible Pump X Bailer ____ Other ___

Time	pH	Conduc. (μS)	Temp. (°F)	Water Level	Volume Removed	Remark
1525	7.80	2550	63.5		0.5	
1527	7.25	2760	65.1		3.5	Dewatered
1532	4.10	2700	64.8		5.0	Dewatered
1536	6.98	2690	64.5		6.5	
1540	6.91	2680	64.5		8.0	Dewatered

ok

Purging Start Time: 1525 Purging Stop Time: 1540

Total Volume Purged: 8.0 (gal.) Well Dewater? Yes

Water Level Prior to Sampling: 5.75 (ft.) Time: 1555

Sampling Method: Teflon Bailer ____ Disposable Bailer X Sampling Pump ____

Sample Collected: 3 - 40 ml VOAs Sample No.: MW-2

Remarks: HC odor slight to strong

Sampler: Keith B. Craig Date/Time: 1-17-97

Groundwater Monitoring Well Sampling Field Log

Project No.: 96208.28 Project Name: X Monitor

Well No.: MW-3 Well Location: _____

Well Depth: 20.00 (ft.) Casing Diameter: 2" (in.)

Depth to Water: 3.46 (ft.) Date: 1-17-97 Time: _____

Water Column in Well: 16.54 (ft.) Well Volume: 2.65 (gal.)

Odor? No Free Product? No Thickness: N/A

Purging Method: Hand Pump ____ Submersible Pump X Bailer ____ Other ____

Time	pH	Conduc. (μS)	Temp. (°F)	Water Level	Volume Removed	Remark
1200	7.51	2800	63.2		0.8	Highly Turbid
1202	7.18	2930	64.5		2.5	
1204	7.10	2960	65.0		5.0	Slightly Turbid
1206	7.01	2990	64.5		7.5	
1208	7.00	3000	64.5		10.0	Clear Dewatered
1210	6.98	2980	64.6		12.5	

Purging Start Time: 1200 Purging Stop Time: 1211

Total Volume Purged: 12.5 (gal.) Well Dewater? Yes

Water Level Prior to Sampling: 5.60 (ft.) Time: _____

Sampling Method: Teflon Bailer ____ Disposable Bailer X Sampling Pump ____

Sample Collected: 3 - 40 ml VOAs Sample No.: MW-3

Remarks: _____

_____

_____

Sampler: Keith B. Craig Date/Time: 1-17-97

Groundwater Monitoring Well Sampling Field Log

Project No.: 96208.28 Project Name: X Monitor

Well No.: MW-4 Well Location: _____

Well Depth: 25.00 (ft.) Casing Diameter: 2" (in.)

Depth to Water: 3.07 (ft.) Date: 1-17-97 Time: 1000

Water Column in Well: 21.93 (ft.) Well Volume: 3.51 (gal.)

Odor? No Free Product? No Thickness: No

Purging Method: Hand Pump ____ Submersible Pump X Bailer ____ Other ____

Time	pH	Conduc. (μS)	Temp. (°F)	Water Level	Volume Removed	Remark
1035	7.32	2600	63.1		1.0	Slight Turbidity
1038	7.20	2910	65.1		3.5	
1041	6.89	2810	64.8		7.0	Clear
1043	6.92	2850	64.7		10.0	
1045	6.93	2860	64.7		12.5	
1048	6.95	2870	64.5		15.0	

Purging Start Time: 1035 Purging Stop Time: 1048

Total Volume Purged: 15.0 (gal.) Well Dewater? No

Water Level Prior to Sampling: 4.50 (ft.) Time: 1110

Sampling Method: Teflon Bailer ____ Disposable Bailer X Sampling Pump ____

Sample Collected: 3 - 40 ml VOAs Sample No.: MW-4

Remarks: _____

Sampler: Keith B. Craig Date/Time: 1/17/97

GE Global Enviromental Laboratory, Inc.
4118 CLIPPER COURT, FREMONT, CA 94538 PHONE (510) 498-1991 FAX (510) 498-1994

January 24, 1997

All West Environmental, Inc.
One Sutter Street, Suite 600
San Francisco, CA 94104

Regarding: **Analytical Results**
Client Project: X Monitor
Global Lab Project: 970117A

Dear Mr. Keith Craig:

Enclosed are the lab results for the samples submitted to Global Lab for the project above. The samples will be disposed of by the laboratory after 30 days from the time they were received.

We appreciate the opportunity to be of assistance to you. If you have any questions or comments, please feel free to contact me at (510) 498-1991.

Sincerely,

Lei Chen
Laboratory Director

GE Global Enviromental Laboratory, Inc.
4118 CLIPPER COURT, FREMONT, CA 94538 PHONE (510) 498-1991 FAX (510) 498-1994

DHS (LUFT) TPH-BTEX REPORT

(ug/L)

Client:	Keith Craig	Date Sampled:	01-17-97
	All West Environmental, Inc.	Date Received:	01-17-97
	One Sutter Street, Suite 600	Date Analyzed:	01-24-97
	San Francisco, CA 94104	Date Reported:	01-24-97
Project:	X Monitor	Lab Job #:	970117A
Matrix:	Water		

Client I.D.	Lab. I.D.		Benzene	Toluene	Ethyl Benzene	Total Xylenes	Dilution Factor
MW-1	970117A01		ND	ND	ND	ND	1
MW-2	970117A03		1200	140	440	1300	1
MW-3	970117A04		ND	ND	ND	ND	1
MW-4	970117A05		ND	ND	ND	ND	1
Reporting Limit			0.5 ug/L	0.5 ug/L	0.5 ug/L	0.5 ug/L	

ND Not Detected. All analytes recorded as ND were found to be at or below the Reporting Limit.

Reviewed By:

ELAP#: 2132

Lei Chen, Laboratory Director

GE Global Enviromental Laboratory, Inc.
4118 CLIPPER COURT, FREMONT, CA 94538 PHONE (510) 498-1991 FAX (510) 498-1994

DHS (LUFT) TPH-GASOLINE REPORT

(ug/L)

Client:	Keith Craig	Date Sampled:	01-17-97
	All West Environmental, Inc.	Date Received:	01-17-97
	One Sutter Street, Suite 600	Date Analyzed:	01-24-97
	San Francisco, CA 94104	Date Reported:	01-24-97
Project:	X Monitor	Lab Job #:	970117A
Matrix:	Water		

Client I.D.	Lab. I.D.			8015M Gasoline			Dilution Factor
MW-1	970117A01			ND			1
MW-2	970117A03			9700			1
MW-3	970117A04			ND			1
MW-4	970117A05			ND			1
Reporting Limit				50 ug/L			

ND Not Detected. All analytes recorded as ND were found to be at or below the Reporting Limit.

Reviewed By:

ELAP#: 2132

Lei Chen, Laboratory Director

EPA METHOD TEST QA/QC TABLE

GLOBAL PROJECT #: 970117A

Lab I.D.:	970117A-MSP	Analytical Method:	EPA M8015
Project:	X Monitor	Analysis date:	01-24-97
Ext/Prep. Method:	EPA 5030	Matrix:	Water
Date:	01-24-97	Unit:	ug/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery %	Matrix Spike Dul. Result	MSD Recovery %	Average Recovery %R	LCL %R	UCL %R	RPD %	UCL %RPD
Benzene	0.00	20.00	20.97	104.85	20.99	104.95	104.90	76.00	127.00	0.10	11.00
Toluene	0.00	20.00	22.47	112.35	22.69	113.45	112.90	76.00	125.00	0.97	13.00
Chlorobenzene	0.00	20.00	19.49	97.45	20.33	101.65	99.55	75.00	130.00	4.22	13.00
Gasoline	0.00	1000.00	1006.00	100.60	997.00	99.70	100.15	70.00	130.00	0.90	30.00

Notes:
Sample Result-Concentration of Sample which is to used for Sample Spike & Sample Spike Duplicate
Spike Level- Level of Concentration Added to the Sample
MSP Result- Matrix Spike Result
MSP %R- Matrix Spike Percent Recovery
MSPD Result- Matrix Spike Duplicate Result
MSPD %R- Matrix Spike Dublicate Percent Recovery
AVG. %R - Average Recovery for MSP & MSPD % Recovery
LCL- Lower Criteria Level
UCL- Upper Criteria Level
RPD- Relative Percent Difference

GE Global Environmental Laboratory, Inc.
Tel: (510) 498-1991 Fax: (510) 498-1994

CHAIN OF CUSTODY

LOG NO. 1350

CLIENT NAME: Allwest Environmental
ADDRESS: 1 Sutter St
SF Ca
PROJECT NAME: X monitor
PROJECT MANAGER: Keith Craig PHONE #: (415) 591-2576
SAMPLED BY:
JOB DESCRIPTION: GW sampling
SITE LOCATION: Alameda

CLIENT JOB NUMBER:

DESTINATION LABORATORY:
☒ GE
4118 Clipper Court
Fremont, CA 94538
☐ Other

FIELD CONDITIONS:
COMPOSITE:
SPECIAL INSTRUCTIONS:

DATE	TIME	IDENTIFICATION	METHOD	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	ANALYSIS REQUESTED: (8015 mod) TPH gasoline	8020 BTEX only	TURN AROUND TIME: 24 HOURS	48 HOURS	1 WEEK	OTHERS	NOTE / FIELD READINGS
		MW-1		water	3	40 ml VOAs	HCl	X	X			7		
		MW-2			3			X	X			7		
		MW-3			3			X	X			X		
		MW-4			3			X	X			7		
		MW-~~5~~ DUP			3									Hold

SUSPECTED CONSTITUENTS
SAMPLE RETENTION TIME
PRESERVATIVES (1) HCL (2) HNO_3 (3) = COLD (4)

RELINQUISHED (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
Keith B Craig	Keith Craig Allwest	1/17/97 15:00		IEI CDEN / Global

REC'D AT LAB BY: | DATE / TIME | CONDITIONS / COMMENTS

SHIPPED VIA: ☐ FED X ☐ UPS ☐ OTHER _____ AIR BILL #

GE Global Environmental Laboratory, Inc.
Tel: (510) 498-1991 Fax: (510) 498-1994

CHAIN OF CUSTODY

LOG NO. 1350

CLIENT NAME: Allwest Environmental
ADDRESS: 1 Sutter ST SF Ca
PROJECT NAME: Xmonitor
PROJECT MANAGER: Keith Craig PHONE #: (415) 591-2577
SAMPLED BY:
JOB DESCRIPTION: GW sampling
SITE LOCATION: Albany

CLIENT JOB NUMBER:

DESTINATION LABORATORY:
☒ GE
4118 Clipper Court
Fremont, CA 94538
☐ Other

FIELD CONDITIONS:
COMPOSITE:
SPECIAL INSTRUCTIONS:

TURN AROUND TIME: 24 HOURS | 48 HOURS | 1 WEEK | OTHERS

NOTE / FIELD READINGS:

DATE	TIME	IDENTIFICATION	METHOD	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	ANALYSIS REQUESTED: 8015(gas) TPH-gasoline	8020 BTEX only	1 WEEK	NOTE / FIELD READINGS
		MW-1		water	3	40ml VOAs	HCl	X	X	X	
		MW-2			3			X	X	X	
		MW-3			3			X	X	X	
		MW-4			3			X	X	X	
		MW-5 (MD)			3						Hold

SUSPECTED CONSTITUENTS:
SAMPLE RETENTION TIME:
PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4)

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
Keith B Craig	Keith Craig Allwest	1/17/97 15:00pm		LEI COEN / Global

REC'D AT LAB BY:
DATE / TIME:
CONDITIONS / COMMENTS:

SHIPPED VIA: ☐ FED X ☐ UPS ☐ OTHER _____ AIR BILL #