

Epigene International

CONSULTING GEOLOGISTS

July 18, 1995

Mr. J. W. Silveira 499 Embarcadero Oakland, CA 94606

Subject:

Second Quarter Monitoring Report for Site Located at 1200 20th Ave.,

Oakland

INTRODUCTION

The site is located at the northeast corner of 20th Avenue and Solano Way in Oakland. A location map is shown on Figure 1. Two gasoline tanks were removed from the site on January 19, 1994. A report documenting the tank removal activities and soil sampling and analysis was prepared by Epigene International dated February 14, 1994.

Based on the presence of soil contamination below the tank, the Alameda County Department of Environmental Health requested a subsurface investigation to assess the possible impact of the contamination on groundwater. Three monitoring wells were installed at the locations shown on Figure 2 in February of 1995.

GROUNDWATER SAMPLING

The wells were purged and sampled on June 20, 1995. The purging was carried out using an electric submersible pump. Each well was purged of approximately seven to ten casing volumes and allowed to recover prior to sampling. Purge water was transported to the property located at 2301 East 12th Street and placed in 55 gallon drums.

Groundwater samples were collected in a dedicated bailer and placed in 40 ml VOAS that were supplied by the laboratory. The VOAS were labeled and stored in a cooled ice chest for transportation to a State-certified laboratory under chain of custody control.

The groundwater samples from each well were analyzed for TPH as gasoline and BTEX compounds. The previous analysis indicated that lead was not a significant contamination factor. Hydrocarbon contamination was detected in primarily in MW-1. Low levels of gasoline and BTEX compounds were also present in MW-3. Tables 1, 2 and 3 present a summary of the results for each well. The certified laboratory report and chain of custody documentation for the groundwater samples is presented in Appendix A.

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GROUNDWATER GRADIENT

The elevation for the top of casing of each well was surveyed in March to mean sea level based on the City of Oakland datum. Because the original gradient was more northerly than expected, the top of casing elevations were resurveyed on June 20 to assess whether or not there was a survey error. The resurveyed elevations were the same as the original elevations.

The direction and slope of the gradient was calculated using a three-point solution. The calculated groundwater elevations and the direction of the gradient for June 20th gauging is shown on Figure 2. The direction of the gradient continues to be toward the north. The slope of the gradient was calculated at 0.065 ft/ft.

CONCLUSIONS AND RECOMMENDATIONS

The wells should continued to be monitored on a quarterly basis. The next quarterly monitoring should be carried out in September of this year. The northward trend of the groundwater gradient continues to be somewhat anomalous to the northwestward trend that was expected for this area.

It is a pleasure to work with you on this project. Should you have any questions, please contact the undersigned.

Sincerely

John N. Alt

Certified Engineering Geologist No. 1136

JOHN N. ALT

Nº 1136

CERTIFIED

ENGINEERING
GEOLOGIST

THE OF CALIFORNIA

CC:

Mr. Robert Shapiro, Esq.

Mr. Barney Chan, Alameda County Dept. of Environmental Health

Attachments

Table 1 - Summary of Hydrocarbon Concentrations (in PPB) Detected in MW-1

Sampling Date	TPH Diesel	TPH Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes	Lend
2/22/95	NA	1900	92	39	57	260	0.14
6/20/95	NA	4100	410	32	14	180	NA

MW-1 is a 2 inch PVC well installed in February 1995 to a total depth of 30 feet.

NOTE: NA is not analyzed; ND is not detected above detection limits which are typically 50 PPB for diesel and gasoline and 0.5 PPB for BTEX; *TRPH is Total Recoverable Petroleum Hydrocarbons as oil and grease. Results for RPH is presented in PPM with a detection limit of 5 PPM.

Table 2 - Summary of Hydrocarbon Concentrations (in PPB) Detected in MW-2

Sampling Date	TPH Diesel	TPH Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes	Lead
2/22/95	NA	ND	ND	ND	ND	ND	ND
6/20/95	NA	ND	1.8	ND	1.1	0.62	NA

MW- 2 is a 2 inch PVC well installed in February 1995 to a total depth of 35 feet.

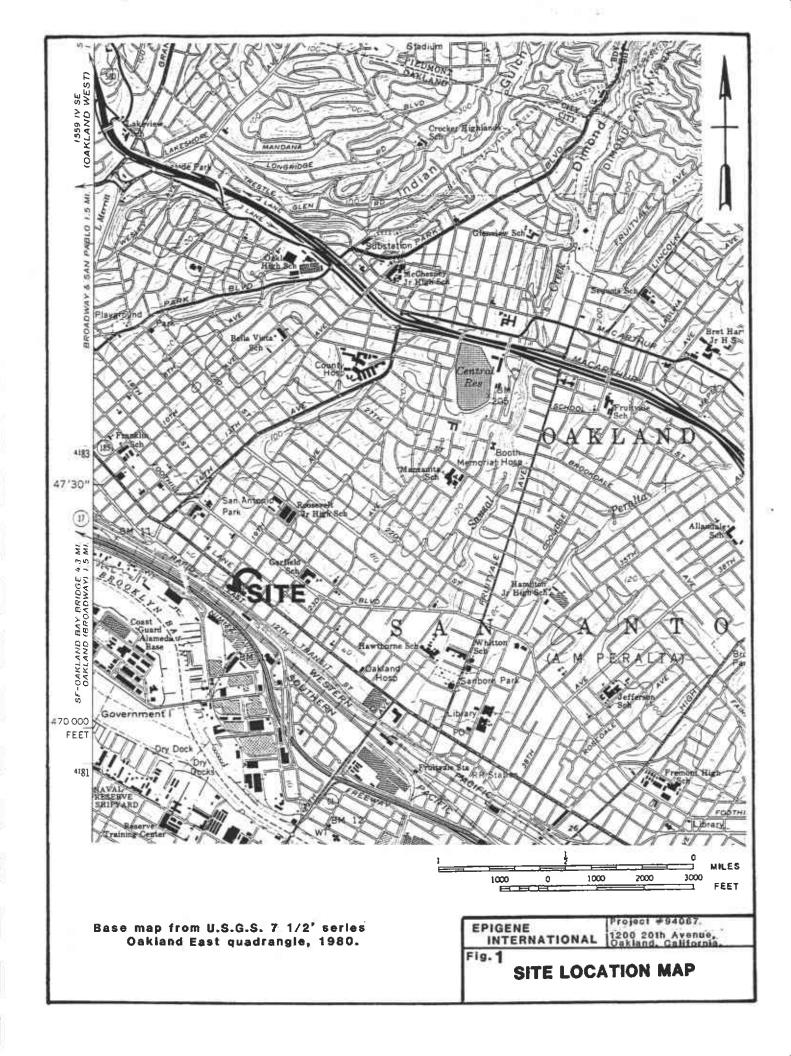
NOTE: NA is not analyzed; ND is not detected above detection limits which are typically 50 PPB for diesel and gasoline and 0.5 PPB for BTEX; *TRPH is Total Recoverable Petroleum Hydrocarbons as oil and grease. Results for TRPH is presented in PPM with a detection limit of 5 PPM.

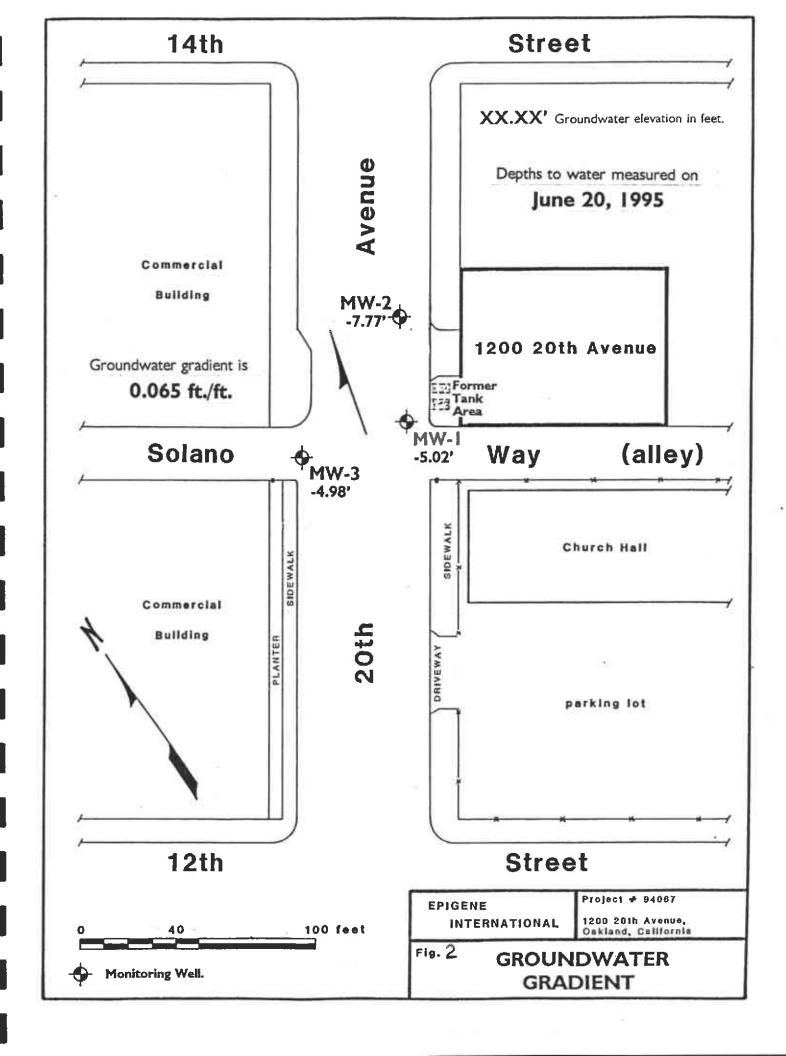
Table 3 - Summary of Hydrocarbon Concentrations (in PPB) Detected in MW-3

Sampling Date	TPH Diesel	TPH Gasoline	Benzene	Tolnene	Ethyl- benzene	Xylenes	Lend
2/22/95	NA	ND	ND	ND	ND	ND	ND
6/20/95	NA	160	0.60	ND	0.60	0.72	NA

MW-3 is a 2 inch PVC well installed in February 1995 to a total depth of 30 feet.

NOTE: NA is not analyzed; ND is not detected above detection limits which are typically 50 PPB for diesel and gasoline and 0.5 PPB for BTEX; *TRPH is Total Recoverable Petroleum Hydrocarbons as oil and grease. Results for TRPH is presented in PPM with a detection limit of 5 PPM.





APPENDIX A

CERTIFIED LABORATORY REPORT

Epigene International				95-067; 1200	Date Sampled: 06/20/95						
3 8750 P aseo P	adre Pkwy, # A11	Oakland			Date Rece	Date Received: 06/22/95					
Fremont, CA	94536	Client C	ontact: John	Alt	Date Extracted; 06/23-06/24/95						
		Client P	.0:		Date Analyzed: 06/23-06/24/95						
EPA methods 50	Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX* PA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method OCFID(5030)										
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate			
53555	MW-l	w	4100,a	410	32	14	180	111#			
53556	MW-2	w	ND,a	1.8	ND	1.1	0,62	100			
53557	MW-3	W	160,d	0,60	ND	0.60	0,72	98			
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Reporting Limit unless other- wise stated; ND means not de-		w	50 ug/L	0.5	0.5	0.5	0.5				
tected above	the reporting limit	S	1.0 mg/kg	0.005	0.005	0.005	0.005				

^{*} water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

CHAIN OF CUSTODY

Comments:

			TO PETXH
Laboratory	r: McCampbell Analytical Ir	ic.	
	110 2nd Avenue South #I)7	
	Pacheco, CA 94553		
	(510) 798-1620		
Contact:	Ed Hamilton	•0	



Contact: John Alt

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_	Contact: Ed Hamilton							t Nar	no: /:	200	2015	Ave.	AKLA	NO CA.	
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