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Underground Contamination Investigations, Groundwater Consultants, Environmental Engineering

November 9, 1993

STP 608

GROUNDWATER SAMPLING REPORT

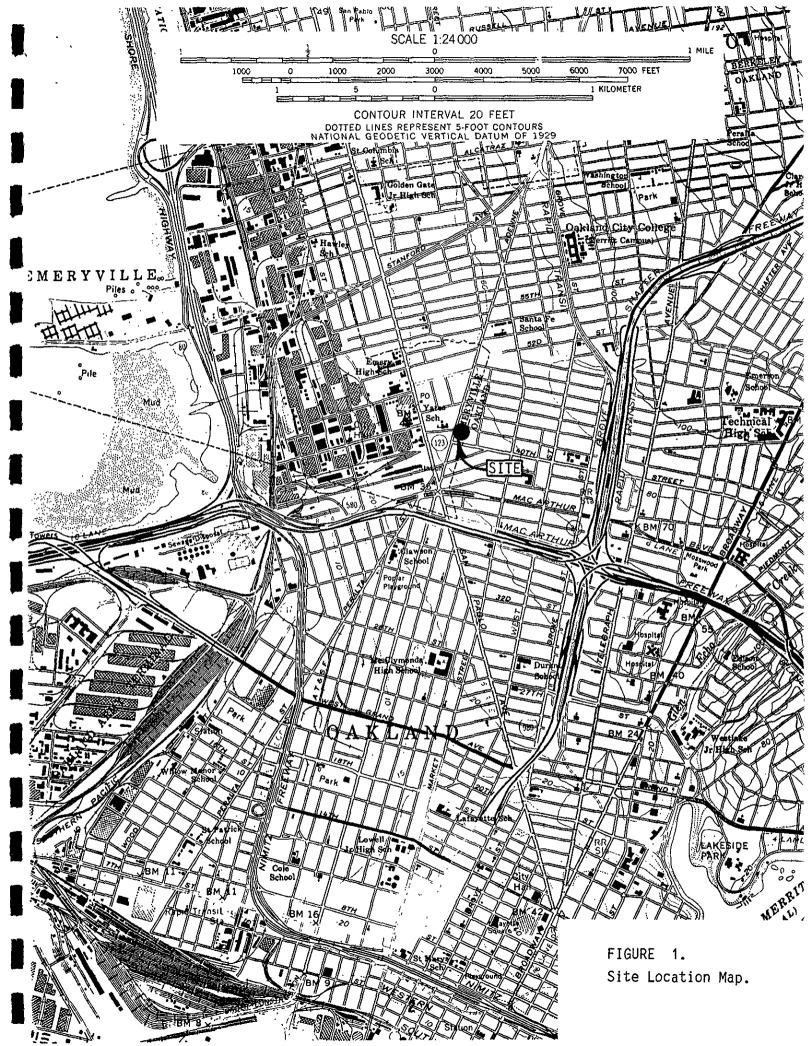
FRANK W. DUNNE COMPANY 1007 41st Street Oakland, CA

Introduction

Sampled for the laboratory analysis for dissolved petroleum constituents. The location of the site is shown in Figure 1, and the locations of the monitoring wells are shown in Figure 2 (site map).

Monitoring Well Sampling

On June 10, 1992, groundwater samples were collected from each of the on-site monitoring wells. Prior to groundwater sampling, each well was purged by pumping approximately 4 casing volumes of water with a stainless steel air-lift pump. Field conductivity, temperature, and pH meters were present on-site during the monitoring well sampling. As the purging



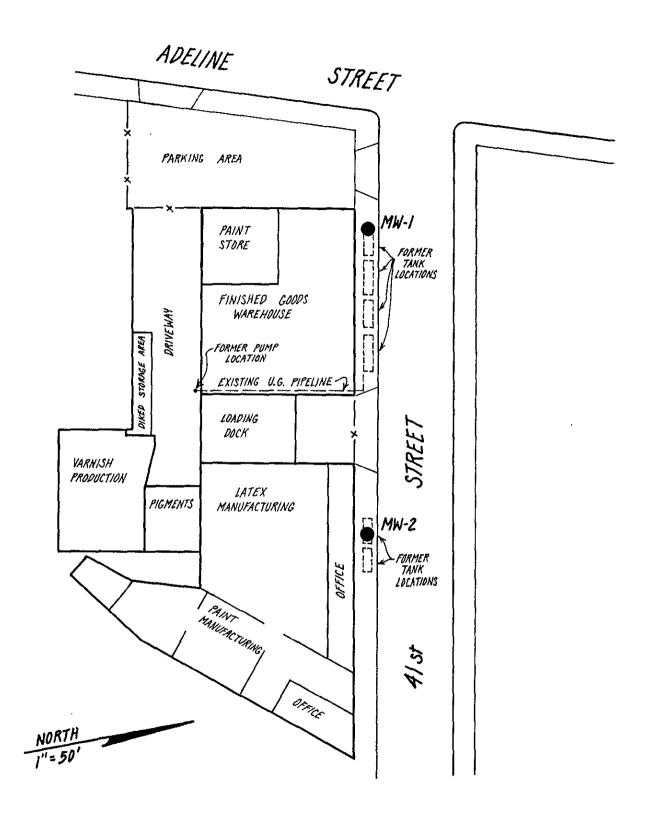


FIGURE 2. Site Map.

process proceeded, the three parameters were monitored. Purging continued until readings appeared to have reasonably stabilized. After the water level in the well had attained 80% or more of the original static water level, a groundwater sample was collected using a clean teflon bailer. The water sample was placed inside appropriate 40 mL VOA vials and 1 liter amber bottles free of any headspace. The samples were immediately placed on ice, then transported under chain-of-custody to the laboratory at the end of the work day.

At the time each monitoring well was sampled, the following information was recorded in the field: 1) depth-to-water prior to purging, using an electrical well sounding tape, 2) identification of any floating product, sheen, or odor prior to purging, using a clear teflon bailer, 3) sample pH, 4) sample temperature, and 5) specific conductance of the sample. Copies of the well sampling logs are included as Attachment A.

Laboratory Analysis

All analyses were conducted by a California State DOHS certified laboratory in accordance with EPA recommended procedures (Priority Environmental Labs, Milpitas, CA). All Groundwater samples were analyzed for Total Petroleum Hydrocarbons as Gasoline, Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA methods 8015 and 602) and Total Extractable Petroleum Hydrocarbons (EPA method 8015).

Analytical Results

Table 1 presents the results of the laboratory analysis of the groundwater samples collected from monitoring wells MW-1, and MW-2. In addition, quality data from the previous rounds of groundwater sampling are also shown in this table. A Copy of the laboratory certificate for the water sample analyses is included as Attachment B.

For this most recent round of groundwater sampling, no detectable concentrations of Total Petroleum Hydrocarbons as Mineral Spirits were found in either of the shallow groundwater samples. As noted on Table 1, "Mineral Spirits", "Paint Thinner" and "Stoddard Solvent" are synonyms for the same petroleum distillate.

No detectable concentrations of either Gasoline, Kerosene, Diesel, Benzene, Toluene, Ethylbenzene, Total Xylenes or Motor Oil were detected in either of the shallow groundwater samples.

Waste Generation

All water removed from the well during purging was drummed and stored on-site until the results of laboratory analyses were obtained. Based upon the laboratory results presented in this report, it would appear that this wastewater may be suitable for use on-site as wash water, landscape irrigation, etc, or else placed in an on-site sanitary sewer connection in accordance with local sewering agency permit requirements. The disposal of wastewater is the responsibility of the property owner (waste generator), and is beyond the scope of work as described in this report.

TABLE 1.

Shallow Groundwater Sampling Results

 Well	Date	TPH as Gasoline (ug/L)	TPH as Kerosene (ug/L)	TPH as Mineral Spirits (ug/L)	TPH as Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	Motor Oil (mg/L)
MW-1	02-21-90 06-10-92 09-27-93	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	0.4 ND ND	1.3 ND ND	ND ND ND
MW-2	02-21-90 06-10-92 09-27-93	ND ND ND	ND ND ND	300 ₹ 76 ₹ ND	ND ND ND	ND ND ND	ND ND ND	0.3 ND ND	1.5 ND ND	ND ND ND
 Detectio	on Limit	50	50	50	50	0.5	0.5	0.5	0.5	0.5

ND = Not Detected

NOTE: Mineral Spirits = Paint Thinner = Stoddard Solvent

GROUNDWATER SAMPLING REPORT FRANK W. DUNNE COMPANY 1007 41st Street, Oakland, CA

November 9, 1993

Gary Aguiar

RCE 34262

ATTACHMENT A

WELL SAMPLING LOGS

WELL SAMPLING LOG

Project/No. DUNNE PAINT	Page of												
Site Location EMERIVILE, CA	Date 9/24/93												
Well No. MN/													
Weather UEAR 85°F	Time Began <u>/25/</u> Completed <u>/325</u>												
EVACUATION DATA													
Description of Measuring Point (MP)	u Box AT GRADE												
rotal Sounded Depth of Well Below MP/3.24	-												
- Depth to Water Below MP 6.46	Diameter //												
= Water Column in Well 6.78	<u>'</u>												
Gallons in Casing 4.3 + Annular Space	3.7 = Total Gallons 8.0												
(30% porosity)													
G	allons Pumped Prior to Sampling 32												
Evacuation Method / GAL. P	VC BAILER												
SAMPLING DATA /	FIELD PARAMETERS												
Inspection for Free Product:	DETECTED												
Time 125/ 1258	1306 1315												
Gals Removed 6 10	2/ 32												
Temperature <u>20,1</u> <u>19,7</u>	19.5 18.6												
Conductivity 300 300	3/0 320												
pt 7,6 7,0	6.9 6.9												
color / Odor CLR/NO CLR/NO	cir/No cir/No												
Color / Odor <u>CLR/No</u> <u>CLR/No</u> Turbidity <u>Low</u> <u>Low</u>	Lon Low												
None													

WELL SAMPLING LOG

Project/No.	INNE /	A/N /	Pa	ge <u> </u>	
Site Location <u>E</u>		ILE CA	C	note: 9/24/9:	3⊹
Well No. <u>MW</u>	<u></u>			egan <u>/330</u>	
Weather	IEAR/	<u>85°F</u>	Comple	ted <u>/355</u>	
	EVAC	CUATION DATA			
escription of Measuri	ng Point (MP)	NEU	Box 1	AT GARA	<u>ΔΞ</u>
Total Sounded Depth of	Well Below MF	13.40			
		7.06	Diamet of Cas	ing <u>4"</u>	
		6.34			
Gallons in Casing			3,5 =	rotal Gallons Z	6
dactoris in casing		(30% porosity)		(x4=3	0)
		Gail	ons Pumped Prior	to Sampling <u>3</u>	<u>5</u>
Evacuation Method	16	AL. PK	2 BAILL	ER	
	SAMPL	ING DATA / F	TELD PARAMET	ERS	
		·			
Inspection for Fre	ee Product:	NONE	DETEC	<u>re</u> d	
(thickness to 0.1	inch, if any)				
Time _	1330	1336	1342	1348	
Gals Removed	0_	10	<u> 20</u>	<u> 30</u>	
Temperature _	20.9	21.1	21.5	21.3	
Conductivity _	300	<u> 3</u>	_3∞_	300_	
H q	7.0	7.0	6.8	6.9	
Color / Odor _	CLR/NO	Gey loca	GRY/HC	Gor/Hic	
Turbidity _	Low	HIEH	GRY/AC HIGH	HIGH	
Comments:	love				

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER



PRIORITY ENVIRONMENTAL LABS

Environmental Analytical Laboratory

September 29, 1993

PEL # 9309083

HAGEMAN - AGUIAR, INC.

Attn: Jeffrey Roth

Re: Two water samples for Gasoline/BTEX and TEPH analyses.

Project name: Dunne Paint

Project location: Emeryville, CA.

Date sampled: Sept 24, 1993

Date extracted: Sept 27-28, 1993

Date submitted: Sept 27, 1993

Date analyzed: Sept 27-28, 1993

RESULTS:

SAMPLE I.D.	Kerosene (ug/L)	Gasoline (ug/L)	Diesel (ug/L)			enzene	Xylenes	Oil	Solvent
MW 1 MW 2	N.D.	N.D.	N.D.	N.D.	N.D. N.D.	N.D. N.D.	N.D.	N.D.	
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	y 94.2%	83.7%	91.2%	87.8%	81.6%	89.5%	93.0%		85.0%
Detection limit	n 50	50	50	0.5	0.5	0.5	0.5	0.5	50
Method o		5030 / 8015	3510 / 8015	/ 602	602	602	602	3510/ 8015	•

David Duong Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

CHAIN OF CUSTODY RECORD

PROJECT NAME AN	DADDRESS: E PAIN YVILLE	17 , CS49		*****	HAGEMAN - AGUIAR, INC. 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)			ANALYSIS REQUESTED						
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