October 1995 Semiannual Ground Water Sampling Report Mills Hall/Toyon Meadow Oakland, California

December 8, 1995

Prepared For:

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K275GREP.010 12-08-95



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1.0 INTRODUCTION

This report presents the results of ground water sampling performed at the Mills Hall/Toyon Meadow site in Oakland, California. The project location is shown on the Site Vicinity Map (Figure 1).

The purpose of the investigation has been to evaluate the extent of petroleum hydrocarbons in ground water related to a previously removed fuel underground storage tank (UST) at the site. This investigation was performed to comply with the continuing monitoring program under the jurisdiction of the Alameda County Health Care Services Agency (ACHCSA). The ACHCSA requires semiannual monitoring at this site, as stipulated in their September 7, 1994 letter.

2.0 BACKGROUND

In June 1989, a small capacity fuel-oil UST was removed from the parking lot of the former Mills Kitchen building. This area is now developed as an open lawn and landscape area referred to as Toyon Meadow. Elevated levels of total petroleum hydrocarbons as diesel (TPHd) were detected in soil samples collected from the excavation at the time of removal, and approximately 250 cubic yards of soil were excavated from the vicinity of the former tank and disposed off-site.

Harza, formerly Kaldveer Associates, performed a soil and ground water quality investigation at the site in 1989. A drilling and soil sampling program was initiated to determine the areal extent of impact. TPHd was detected in soil samples at a depth of 12 to 15 feet below ground surface (bgs) for a distance of at least 60 feet downgradient of the former tank location.

In July 1989, monitoring well MHW-1 was installed approximately 50 feet downgradient from the former tank location, as shown in Figure 2. Two additional wells (MHW-2 and MHW-3) were installed in June 1991. Ground water monitoring has been performed intermittently since June 1991.

TPHd concentrations in ground water have ranged from below detection limits to 0.09 milligrams per liter (parts per million [ppm]) in former well MHW-1 and 0.1 to 3.2 ppm in well MHW-2. TPHd

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has not been detected in well MHW-3. Benzene, toluene, ethylbenzene, and xylenes (BTEX) have not been detected in any of the three wells with the exception of a detection in April 1995 that is believed to be an artifact. The measured ground water flow direction has consistently been toward the southwest.

During landscape renovation activities, monitoring well MHW-1 was destroyed under permit by a licensed drilling contractor in May 1994. A new well, MHW-1A, was installed in the approximate location of the destroyed well. In the *Monitoring Well Installation and Ground Water Sampling Report* (August 17, 1994), Harza recommended that the frequency of ground water monitoring at the Mills Hall/Toyon Meadow site be reduced to a semiannual schedule. This change was approved by the ACHCSA in their September 7, 1994 letter.

3.0 SCOPE OF SERVICES

The investigation consisted of the following tasks:

- Measuring ground water levels in all wells for use in developing a ground water elevation contour map
- Collecting ground water samples from the three wells at the site
- Analyzing ground water samples for TPHd and purgeable aromatic compounds (BTEX)

4.0 FIELD INVESTIGATION

4.1 Well Sampling

The three monitoring wells were sampled on October 19, 1995. Following an initial ground water level measurement, a minimum of three well-casing volumes of water were purged from each well using a Teflon bailer. Purging consisted of the gradual removal of water from the well until physical parameters such as pH, temperature, and electrical conductivity stabilized. Following purging, samples were decanted from the bailer into appropriate sample containers, labeled, and placed in refrigerated storage for transport to the laboratory under chain-of-custody control. The bailer was washed with trisodium phosphate (TSP) and rinsed with deionized water between wells to reduce the potential for cross contamination. Purge water was contained on-site in a 55-gallon drum. Monitoring well sampling logs are attached to this report as Appendix A.



4.2 Ground Water Gradient

Well-top elevations, depth to water, and calculated water-surface elevations are presented in Table 1. These data are used to generate the ground water elevation contours presented on Figure 2. Ground water elevation data collected during this investigation indicate a general southwesterly flow at an approximate gradient of 0.04 foot per foot.

5.0 ANALYTICAL RESULTS

5.1 <u>Laboratory Procedures</u>

Ground water samples were analyzed by American Environmental Network (AEN) of Pleasant Hill, California. AEN is certified by the California Environmental Protection Agency for the analyses performed. Samples from each well were analyzed for TPHd using EPA Method 3550/GC-FID, and for BTEX using EPA Method 8020.

5.2 Analytical Results

The results of the chemical analyses are presented in Table 2 and laboratory analytical reports are attached as Appendix B. A historical summary of ground water sample analytical results is also included in Table 2.

TPHd was detected in the ground water sample from well MHW-2 at a concentration of 0.4 ppm. TPHd was not detected at or above the laboratory method limits (MRLs) in the samples from wells MHW-1 and MHW-3. BTEX were not detected above the laboratory MRLs in any of the samples collected. No visible product or sheen was observed during sampling.

6.0 CONCLUSIONS

The ground water gradient and flow direction remain relatively constant. The concentration of TPHd in well MHW-2 has been relatively constant at low concentrations. TPHd has been detected sporadically at low concentrations in well MHW-1/1A. Benzene and toluene were detected in samples collected from wells MHW-1A and MHW-3 during the previous sampling event but were not detected during the present sampling event. Because these compounds had not been detected in prior samplings, it is likely that the levels detected were caused by laboratory or field contamination, and are not representative of actual ground water quality. The next monitoring event for the site is scheduled for April 1996.

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7.0 LIMITATIONS

The purpose of a geologic/hydrogeologic study is to reasonably characterize existing site conditions based on the geology/hydrogeology of the area. In performing such a study, a balance must be struck between a reasonable investigation into the site conditions and an exhaustive analysis of each conceivable condition. The following paragraphs discuss the assumptions and parameters under which such a study is conducted.

No investigation is thorough enough to detect every geologic/hydrogeologic condition of interest at a given site. If conditions have not been identified during the study, such a finding should not therefore be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

We are unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether occurring naturally or caused by external forces. We cannot assume responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Geologic/hydrogeologic conditions may exist at the site that cannot be identified solely by visual observation. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

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TABLES

TABLE 1
Summary of Ground Water Sample Analyses

October 1995 Semiannual Ground Water Sampling Report Mills Hall/Toyon Meadow, Oakland, California

Well	Date	TPHd ppm	TPH Oil	Benzene ppm	Toluene ppm	Ethylbenzene ppm	Xylenes ppm
MHW-1/1A	06/91	0.06	ND	ND	ND	ND	ND
	03/92	ND	_	ND	ND	ND .	ND
	10/92	0.09	ND	ND	ND	ND	ND
	05/94	ND		ND	ND	ND	ND
	10/94	ND		ND	ND	ND	ND
	04/95	0.06		0.002	0.0006	ND	ND
	10/95	ND		ND	ND	ND	ND
MHW-2	06/91	3.2	ND	ND	ND	ND	ND
	03/92	0.1		ND	ND	ND	ND
	10/92	0.61	ND	ND	· ND	ND	ND
	05/94	0.2	_	ND	ND	ND	ND
	10/94	0.4		ND	ND	ND	ND
	04/95	0.52		ND	ND	ND	ND
	10/95	0.4		ND	ND	ND	ND
MHW-3	06/91	ND	ND	ND	ND	ND	ND
	03/92	ND		ND	ND	ND	ND
	10/92	ND	ND	ND	ND	ND	ND
	05/94	ND		ND	ND	ND	ND
	10/94	ND		ND	ND	ND	ND
	04/95	ND	••	0.0009	ND	ND	ND
	10/95	ND	_	ND	ND	ND	ND

NOTES

TPHd: Total petroleum hydrocarbons as diesel
TPH Oil: Total petroleum hydrocarbons as oil

ppm: Parts per million or milligrams per liter

ND: Not detected at or above the laboratory method reporting limits

--: Not tested

Well MHW-1 was replaced by MHW-1A on May 2, 1994 prior to the monitoring event

TABLE 2
Ground Water Elevation Data

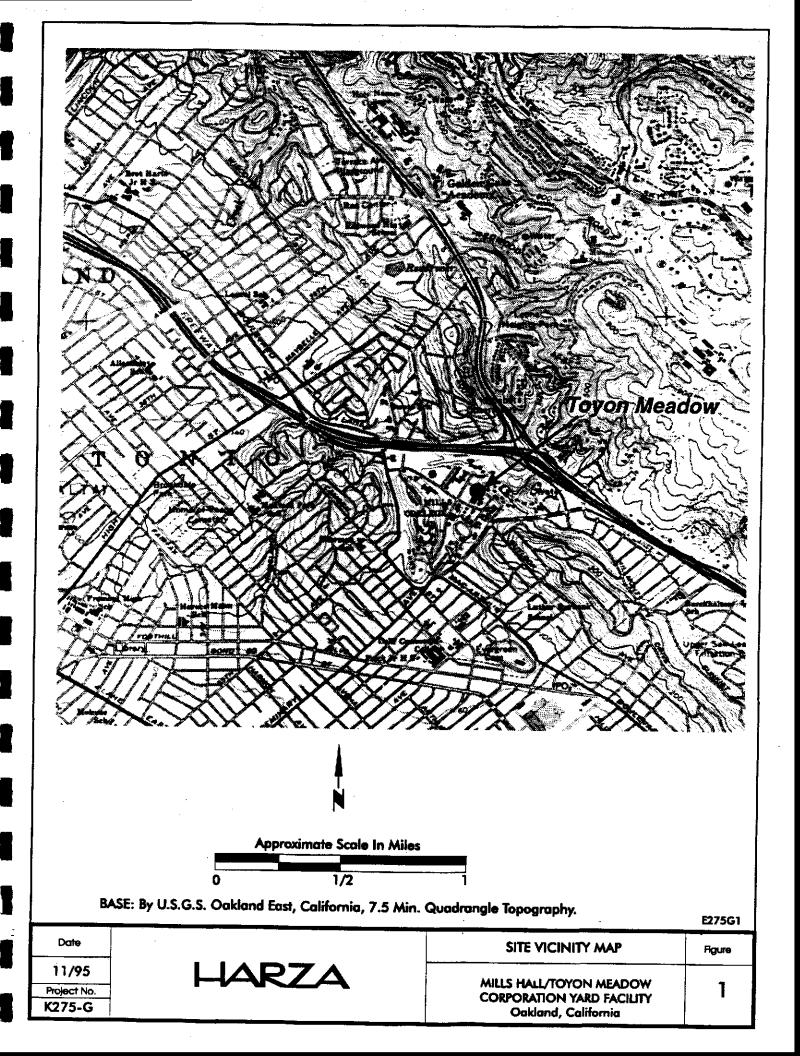
October 1995 Semiannual Ground Water Sampling Report Mills Hall/Toyon Meadow, Oakland, California (Reported in feet)

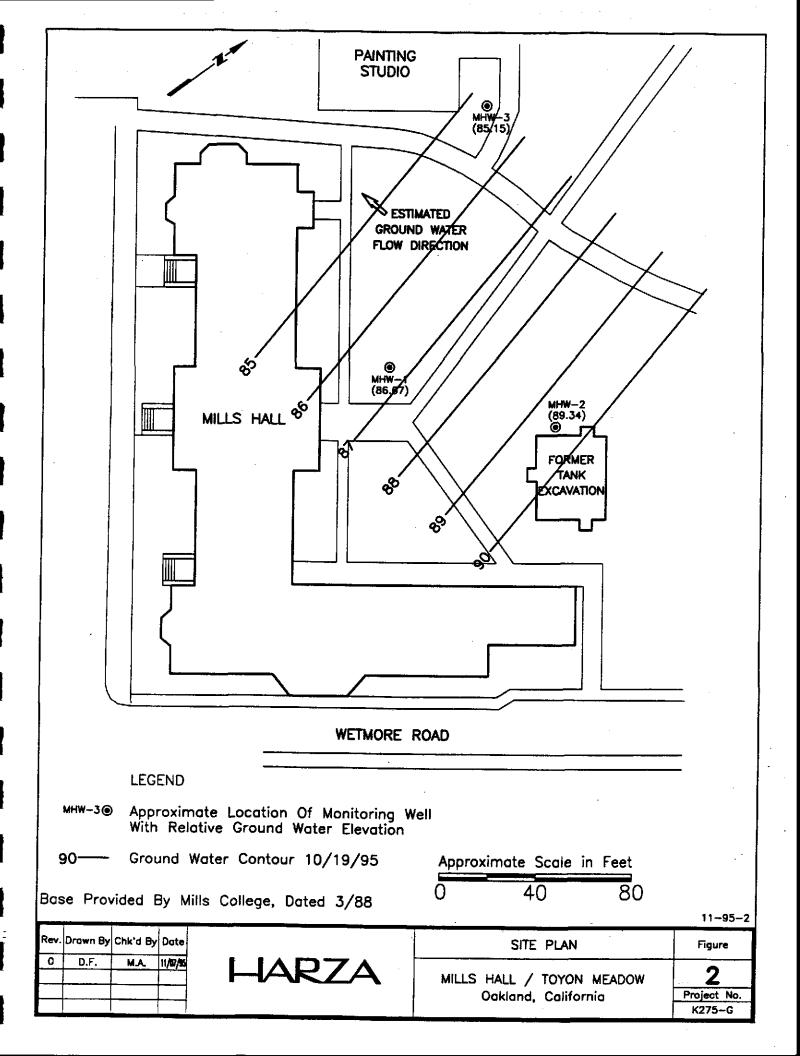
Date	Monitoring Well	Relative Well-Top Elevation	Depth to Water	Ground Water Elevation
June 1991	MHW-1	99.53	11.92	87.61
	MHW-2	100.00	10.32	89.68
	MHW-3	98.01	12.45	85.56
March 1992	MHW-1	99.53	9.95	89.58
	MHW-2	100.00	8.26	91.74
	MHW-3	98.01	11.12	86.89
October 1992	MHW-I	99.53	12.98	86.55
	MHW-2	100.00	11.19	88.81
	MHW-3	98.01	12.79	85.22
May 1994	MHW-1A	99.50	11.64	87.86
	MHW-2	100.00	9.94	90.06
	MHW-3	98.04	12.60	85.44
October 1994	MHW-1A	99.50	13.39	86.11
	MHW-2	100.00	11.05	88.95
	MHW-3	98.04	12.93	85.11
April 1995	MHW-1A	99.50	12.94	86.56
	MHW-2	100.00	9.95	90.05
	MHW-3	98.04	12.64	85.40
October 1995	MHW-1A	99.50	12.83	86.67
	MHW-2	100.00	10.66	89.34
	MHW-3	98.04	12.89	85.15

NOTES

Well-top elevations are based on an arbitrary datum of 100,00 feet at MHW-2. Well MHW-1 was replaced by MHW-1A on May 2, 1994 prior to the monitoring event.

FIGURES





APPENDIX A

Water Sample Logs

WATER SAMPLE LOG

Project Name: Mills College Project Number: K275-G		<u>. </u>		Date:	10/19/95	٠			
			_	Sampler:	M. Anders				
Well Nu		MHW-			Weather: Sunny, 70s				
Well Lo	cation:						J - J		
Well Co	nstruction				Sampling	Equipment A	Cleaning		
Date Completed:		_ Sampler T	уре:	Teflon bailer	•				
	pth of Well:	19.95	1		_	Cleaning:	TSP/rinse		
Diameter		2"		 	Pump/Bail	er Type:	Teflon bailer	-	
Well Ele	vation and Re	terence:	-		-	Cleaning:	TSP/rinse		
					_ pH Meter:		Hydac		
Ground V	Vater Levels:				Comments Comments	•	Hydac		
initial:	12-83	1			· · · · · · · · · · · · · · · · · · ·				
Final:		12.941							
Ref ere nce		TOC							
Mett Aoli	ume of Water:		1.16	<u> </u>					
	Discher	rge (gal.)	SAI			nductance			
Time	Per Time	Cumulative	pH	Temp		os/cm)	Color/		
	Period		l ber	(Tr)	Field	@ 25°C	Turbidity	Odor	
	start	0							
1053		1.5	6.89	65.5	1750		BEANN / 4164	NONE	
1058		3	6.84	65.5	1733		11	NO ME.	
1102		4.5	6.89	65.2	175 A		11	11	
	Sample	ò							
				-					
				- ·					
		·			 				
					 				
otal Disci		اي _م 5	2		Comments:		· · · · · · · · · · · · · · · · · · ·		
	lumes Remove Disposal:		4.3						
emon OI	nahoza:	DRUM OU-	(ITE						
					T	WATE	R SAMPLE LOG		
HARZA				WATER SAMPLE LOG					
								· · · · · · · · · · · · · · · · · · ·	
		IARZA Engineers and			Projec		Date Date	Figure	

DDA:WATSAMP.XLS

WATER SAMPLE LOG

Project 1	Varne:	Mills Colle		•		_				
Ртојест 1	_	K275-G	P.		Date: 10/19/95					
Vell Nu	_	MHW	-2		Sampler: M. Anders Weather: 70 Sample					
Vell Loc	cation:	7.7.7			-	werder:	70 Sunny			
Vell Co	struction				Sampling	Equipment d	k Cleaning			
Date Completed:				Samulae T		7-8 1-9				
	pth of Well:	19.50			Sampler T Method of		Teflon bailer TSP/rinse			
iameter		211		' 	Pump/Bail		Teflon bailer	_		
cll Ele	vation and Re	ference:			Method of		TSP/rinse			
	·				pH Meter:	_	Hydac			
•				· · · · · · · · · · · · · · · · · · ·	Conductivi	ty Meter:	Hydac	· · · · · · · · · · · · · · · · · · ·		
OUDG V	Vater Levels:				Comments	:				
itial:	10-6	6		· **						
nal:	10.8							· . · · · · · · · · · · · · · · · · · ·		
eference		TDC					· · · · · · · · · · · · · · · · · · ·			
	me of Water:	1.48								
										
			,	. :						
			SAI	APLING M	EASUREME	ents		-		
				1	Sween Co	nductance				
	Dischar	rge (gai.)] .	Temp	1 -	os/em)	Color/			
Time	Per Time	Cumulative	pH	(T)	Field	@ 25°C	Turbidity	Odor		
(0)	Period									
1011	start 1.5	0	6-71	10.1-	.003		(404 2011)			
020	3		6.71	00	1933		GRAY-800 NA/HIG =	YINE		
024	4.5		6.84	65.5	1717	·	. 11	(1		
64			6.88	65,2	1699		17	41		
	SAMPLA	5 0								
-+										
			·							
							•			
al Disch	er Wroe:	5 gel	-			2				
	unes Remove	# 0 1	38		Comments:	<u> </u>				
		DAM ON-				•	· · · · · · · · · · · · · · · · · · ·	·		
		CITY UH-	7772		· · · · · · · · · · · · · · · · · · ·		-			
		•				WATT	ER SAMPLE LOG			
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•	Consulting	Engineers and	l Scientists		Project	No.	Date	Figure		

DDA:WATSAMP.XLS

WATER SAMPLE LOG

Project 1	Project Name: Mills College			Date:	10/19/95				
Project	Number:	K275-G			-	Sampler:	M. Anders		
Well Nu	umber:	MHW-	3		-	Weather:	708 Lana		
Well Lo	cation:				······································		The Franch		
Well Co	nstruction				Sampling	Equipment /	k Cleaning		
Date Completed:			_ Sampler 1	Cyne:	Teflon bailer	•			
	pth of Well:					Cleaning:	TSP/rinse		
Diameter		2"			Pump/Bai		Teflon bailer	·	
Well Ele	vation and Re	ference:				Cleaning:	TSP/rinse		
	· · · · · · · · · · · · · · · · · · ·				pH Meter:	:	Hydac		
Ground V	Water Levels:			•	Conductivi Comments	-	Hydac		
Initial:	12.89								
Final:		13.08							
Reference		TOC	·						
Well Vol	ume of Water:	1.9							
									
·	T T		SAN	APLING M	EASUREMI Steel Co	ENTS Productance			
	Dischar	ge (gal.)		Temp	r -	OS/CIB)	Color/	• •	
Time	Per Time	Cumulative	pН	(Tr)	Field	@ 25°C	Turbidity	Odor	
0.22	Period							300	
922	start	0							
979		1.5	blo	68°	1968		Brown/High	none	
		2.5	6.83	66.5°	1892		7, 0	1,	
9 35		3.5	6.80	66°	**** 0	1992	(I	1 +	
939		4.5	6.81	66	1983		11	11	
	SAMPLE	D						 	
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otal Disch		4.5 20	<u></u>		Comments:				
asing Vol	umes Remove	d:	6.0						
ethod of	Disposal: 🔃	DRUM (N-2 ITE						
	T	IARZA				WATE	R SAMPLE LOG		
	· I	LAKLA		j	1				
	Consulting 1	Tarina	!						
	Consulting 1	Engineers and	Scientists		Project	No.	Date	Figure	

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APPENDIX B

Laboratory Analytical Reports

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

HARZA 425 ROLAND WAY OAKLAND, CA 94621

ATTN: MR. GARY GORMAN CLIENT PROJ. ID: K275-G

CLIENT PROJ. NAME: MILLS COLLEGE

REPORT DATE: 10/26/95

DATE(S) SAMPLED: 10/19/95

DATE RECEIVED: 10/19/95

AEN WORK ORDER: 9510258

PROJECT SUMMARY:

On October 19, 1995, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larey Klein

Laboratory Director

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SAMPLE ID: MHW-1 AEN LAB NO: 9510258-01 AEN WORK ORDER: 9510258 CLIENT PROJ. ID: K275-G

DATE SAMPLED: 10/19/95 DATE RECEIVED: 10/19/95 REPORT DATE: 10/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX Benzene Toluene Ethylbenzene Xylenes. Total	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7	ND ND ND ND	0.5 0.5 0.5 2	ug/L ug/L ug/L ug/L	10/23/95 10/23/95 10/23/95 10/23/95
#Extraction for TPH	EPA 3510	-		Extrn Dat	te 10/23/95
TPH as Diesel	GC-FID	ND	0.05	mg/L	10/24/95

ND = Not detected at or above the reporting limit \star = Value above reporting limit

HARZA

SAMPLE ID: MHW-2

AEN LAB NO: 9510258-02 AEN WORK ORDER: 9510258 CLIENT PROJ. ID: K275-G DATE SAMPLED: 10/19/95 DATE RECEIVED: 10/19/95 REPORT DATE: 10/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX Benzene Toluene Ethylbenzene Xylenes, Total	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7	ND ND ND ND	0.5 0.5 0.5 2	ug/L ug/L ug/L ug/L	10/21/95 10/21/95 10/21/95 10/21/95
#Extraction for TPH	EPA 3510	-		Extrn Dat	te 10/23/95
TPH as Diesel	GC-FID	0.4 *	0.05	mg/L	10/24/95

ND = Not detected at or above the reporting limit
 * = Value above reporting limit

HARZA

SAMPLE ID: MHW-3 AEN LAB NO: 9510258-03 AEN WORK ORDER: 9510258 CLIENT PROJ. ID: K275-G

DATE SAMPLED: 10/19/95 DATE RECEIVED: 10/19/95 REPORT DATE: 10/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX Benzene Toluene Ethylbenzene Xylenes, Total	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7	ND ND ND ND	0.5 0.5 0.5 2	ug/L ug/L ug/L ug/L	10/21/95 10/21/95 10/21/95 10/21/95
#Extraction for TPH	EPA 3510	-		Extrn Dat	e 10/23/95
TPH as Diesel	GC-FID	ND	0.05	mg/L	10/24/95

ND = Not detected at or above the reporting limit
 * = Value above reporting limit

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9510258

CLIENT PROJECT ID: K275-G

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

<u>Definitions</u>

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are metrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9510258

DATE EXTRACTED: 10/23/95

INSTRUMENT: C MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
10/24/95 10/24/95 10/24/95	MHW-1 MHW-2 MHW-3	01 02 03	94 91 98
QC Limits:		·	59-118

DATE EXTRACTED: 10/20/95 DATE ANALYZED: 10/23/95

SAMPLE SPIKED: INSTRUMENT: C DI WATER

Method Spike Recovery Summary

	Code	A		QC Limi	ts
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Diesel	2.07	83	3	58-107	4

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9510258 INSTRUMENT: H

MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
10/23/95 10/21/95 10/21/95	MHW-1 MHW-2 MHW-3	01 02 03	100 101 101
QC Limits:			92-109

DATE ANALYZED: 10/23/95 SAMPLE SPIKED: INSTRUMENT: H 9510258-03

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Benzene Toluene HCs as Gasoline	35.4 108 1000	109 109 110	4 3 <1	85-109 87-111 66-117	17 16 19

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

R-3, 5-2 Contact: DEREY ARMENTROUT HARZA Consulting Engineers and Scientists 425 Roland Way (510) 568-4001 (510) 568-2205 Fax Oakland, CA 94621 The sold in the sold of the so Project Number Lab Project Number K275-G 9510258 Project Name Sampler's Name (printed) MILLS COLLEGE wind day M. ANDERS Sample Type Harza Sample ID Number/Type Lab Sample 10 Date of Container Remarks MHW - 1 OIA-E WIT (DAMB (3) VOA: 105 MHW -Z 120-E 1030 MHW-S 03A-12 MW -1 WYA-C. BVDA 1610 MW - Z DSA-C 1503 11W - 3 060-6 1536 MW - 4 0.74 c13:20 MW - 5 2) UDA UBA-B 1420 TB OYAS XX Relinquished by: (Signature) 1703 Time F Refunduished by: (Signotare) ☐ FAX Results NOTES