

PROGRESS REPORT # 18 December 1 , 1992 - January 31, 1993

Durham Transportation 19984 Meekland Avenue Hayward, California

Project # 93-1



March 10, 1993 Project No. 93-1

Mr. Dave Delamotte Durham Transportation 9171 Capitol of Texas Highway, North Travis Building, Suite 200 Austin, Texas 78759

Subject:

Progress Report #18

Period Covering

December 1, 1992 - January 31, 1993 19984 Meekland Avenue, Hayward, CA

Dear Mr. Delamotte:

Enclosed is the eighteenth progress report for the Phase II investigation to evaluate the extent of soil and groundwater contamination at 19984 Meekland Avenue in the unincorporated area of Alameda County, near Hayward, California.

This report covers the following topics:

Introduction
Monthly Monitoring of Groundwater Elevations
Quarterly Monitoring Well Sampling and Analysis
Groundwater Monitoring Well Installation
Groundwater Monitoring Well Abandonment
Summary

After you review this document, it is recommended that copies be sent to Ms. Juliete Shin of the Alameda County Health Care Services Department, Hazardous Materials Division and Mr. Eddy So of the Regional Water Quality Control Board. Extra copies of this report have been provided to you for this purpose.

Thank you for this opportunity to provide Durham Transportation with these environmental services. If you have any questions, please call either of the undersigned at (510) 799-1140.

Sincerely,

Lisa A. Polos, REA, CHMM Senior Scientist

Toxic Technology Services

CTTS, Inc.

Enclosure LAP/JNA/lap John N. Alt, CEG #1136 Consulting Geologist Toxic Technology Services CTTS, Inc.

INTRODUCTION

The following is the eighteenth progress report of activities in the evaluation of the extent of soil and groundwater contamination at 19984 Meekland Avenue, in the unincorporated area of Alameda County, near Hayward, California. This report covers the period of December 1, 1992 through January 31, 1993.

The purpose of this on-going investigation is two fold; to assess the extent of soil and groundwater contamination and to characterize the contamination with regards to constituents and concentration.

MONTHLY MONITORING OF GROUNDWATER ELEVATIONS

As stated in previous reports, the groundwater gradient at the site is essentially flat. The elevation of the groundwater has been measured in the monitoring wells on site by surveying the elevation of the top of the casing and measuring the depth to groundwater using an electronic probe. The elevations are based on Alameda County benchmark BLO-MEEK located in the middle of the intersection of Blossom Way and Meekland Avenue. The depth to groundwater was measured in December of 1989, January of 1990, and then monthly since March of 1990.

The groundwater elevation data are presented on Table 1. Figure 1 is a graph showing monthly variations in the elevation of groundwater at the site over a two year period. In any given month, the groundwater elevation across the site generally varies within 0.1 feet. This variation is roughly within the range of error in the measuring techniques. The data indicate that the water table fluctuates in response to the various seasons of the year. Table 1a presents the monthly odor and sheen observations recorded concurrently with the elevations of groundwater.

Figure 2 is a gradient map depicting the interpolated groundwater gradient for the site over the reporting period. The data indicate that the site is essentially flat with a very low westward to northwestward gradient. This is consistent with the regional gradient.

QUARTERLY MONITORING WELL SAMPLING AND ANALYSIS

On January 28 and 29, 1993, the three two-inch diameter groundwater monitoring wells (Plate 1) were each purged of a minimum of 8 gallons of water and samples collected. The six four-inch diameter wells were each purged of a minimum of 30 gallons of water and samples collected. Bailing was conducted starting with the least contaminated well moving to wells that have historically shown the greatest levels of contamination, using a PVC Triloc pump. The pump was rinsed between wells with tap water. Samples were collected using a new, disposable plastic bailer for each well. Purged water was contained in 55 gallon drums.

Sampling was conducted by Lisa Polos, REA, and John Alt, CEG, of Toxic Technology Services.

At the time of sample collection, the contents of the first bailer of water were inspected to assess the presence of any floating product. None of the wells, at the time of sample collection, contained floating product.

MW-12 was installed and samples collected in December 1992. This well was not purged and sampled for this sampling round, but will be included in future quarterly monitoring. This is discussed in the following section.

MW-1 was abandoned in December 1992 and is therefore not included in this sampling round or any future monitoring. The destruction is discussed in a following section.

Collected samples were put into a cooled ice chest and transported to NET Pacific Laboratory in Santa Rosa California for analysis of Total Petroleum Hydrocarbons as Gasoline and Diesel, BTEX and Volatile Halogenated Hydrocarbons.

Table 2 summarizes the results from this sampling round. The NET analytical reports are presented under Appendix A.

GROUNDWATER MONITORING WELL INSTALLATION

On December 14, 1992, one on site groundwater monitoring well was installed by HEW Drilling, under the direction of John Alt, CEG. The well, MW-12 is located at the northeast corner of the site as shown on Plate 1. The well was installed using a CME 75 drill rig with hollow stem augers. Augers were steam cleaned prior to the drilling of the wells. A standard split barrel sampler with 2-5/8" OD and 2" ID was used for soil sampling. It had the capacity for obtaining an 18 inch sample using three six-inch long brass liners. Prior to obtaining each sample, the disassembled sampler and the brass liners were washed in a solution of TSP in water. Each piece was triple rinsed, with the final rinse being distilled water.

A boring log was prepared for MW-12 and is presented as Plate 2. Blow Counts were recorded for each six inches of penetration of the sampler, and the time at which each sample was taken was noted on the field log. Soil samples were collected at five foot intervals during the drilling. One liner from each depth was retained for any required chemical analysis. The soil exposed in the ends of the tube was quickly noted, and the ends were then sealed with teflon tape and snug-fitting plastic caps. The edges of the caps were sealed with plastic tape. The cap was labeled with the sample number, depth, date, and project name. the soil samples were placed in a chilled ice chest as they were collected, and selected soil samples were marked and sent under chain-of-custody to NET Pacific laboratory, a state certified hazardous waste laboratory, for analysis. The second and third samples were inspected and used for the sample description.

Two inch (ID) Schedule 40 PVC pipe was used for the well casing of MW-12. The well was screened with slotted (0.020 inch openings) casings in the lower 15 feet of the well and capped at the bottom with a slip on cap. The boring was filled in the annular space between the casing and bore wall with clean #3 sand to a depth of approximately 2 feet above the top of the slotted casing. Above the sand-pack, at least two feet of bentonite pellets was used as a seal, and the remainder of the annulus was filled with cement grout. A Monitoring Well Installation Report containing more detailed information on the well installation was recorded and is on file.

Prior to drilling, a permit for the installation of the monitoring well was obtained from Zone 7 of the Alameda County Flood Control and Water Conservation District. The permit is attached as Appendix B.

The units encountered in the boring from monitoring well MW-12 are shown on the boring log, Plate 2. The soil samples collected had no odor above 20 feet. At twenty feet a slight hydrocarbon odor was detected. The odor was not detected at 25 feet, but a moderate to strong odor was detected at 30 feet. The odor was slight at 35 feet and not detected at 40 feet. No soil staining was noted at any depth. Groundwater was encountered at approximately 32 feet.

It is our opinion that the soils contaminated in this well are a result of groundwater contamination.

On January 21, 1993, MW-12 was purged of approximately 30 gallons of water and sampled. These activities were conducted by Mr. John Alt, CEG and Ms. Lisa Polos using a Triloc pump. After the wells were purged, groundwater samples were collected using a three-foot disposable bailer.

The first sample from the well was retrieved from the surface of the water, and the contents of the bailer were inspected to assess whether or not there was any floating product present. Groundwater from MW-12 exhibited a slight odor, but no sheen. Sample vials and jars, provided by the laboratory, were filled from the bailer and put into a chilled ice chest.

Chemical data from soil and groundwater samples are presented in Table 3. The soil indicates low levels of hydrocarbon contamination at the level of groundwater. The groundwater contains low levels of what appears to be old gasoline. Neither the soil nor the groundwater contained detectable levels of chlorinated hydrocarbons.

The NET Pacific analytical report for soils and water collected from MW-12 is presented under Appendix C.

GROUNDWATER MONITORING WELL ABANDONMENT

MW-1 was the original monitoring well installed on the site (June 1986) prior to the tank excavations and subsequent investigations by Toxic Technology Services. The well was located just west of the existing tank excavation

(Plate 1). In preparation of the proposed over-excavation for the soil remediation, it was necessary to properly abandon the well as the integrity of the well would be impacted by the proposed work. The well was constructed of two inch diameter PVC pipe and reported to be approximately 41.5 ft. deep. A copy of the original well log is presented as Appendix D. The Zone 7 permit number for the well installation is 86154 and the location number is 3S/2W 17C80.

Well destruction permit #92625 (Appendix B) was obtained from Zone 7 prior to the abandonment. The well was abandoned on December 14, 1992, by HEW Drilling under the supervision of the undersigned. The christy box and casing were removed prior to drilling. The grout seal and sand pack were drilled-out using an over-sized (10 in.) hollow-stem auger to below the depth of the well (approximately 43 feet). The hole was then pressure grouted using a grout pump and trimie pipe, grouting from the bottom of the hole upward to displace the water in the hole. The pumping continued until the grout reached the ground surface.

The grout settled and set at a depth of approximately 2-3 feet below the surface. Cuttings from the drilling were placed in drums.

SUMMARY

The State of California Maximum Contaminant Level (MCL) in drinking water is 0.5 ppb for 1,2-Dichloroethane, 1750 ppb for Xylenes and 1 ppb for Benzene. The recommended drinking water action level for Toluene is 100 ppb.

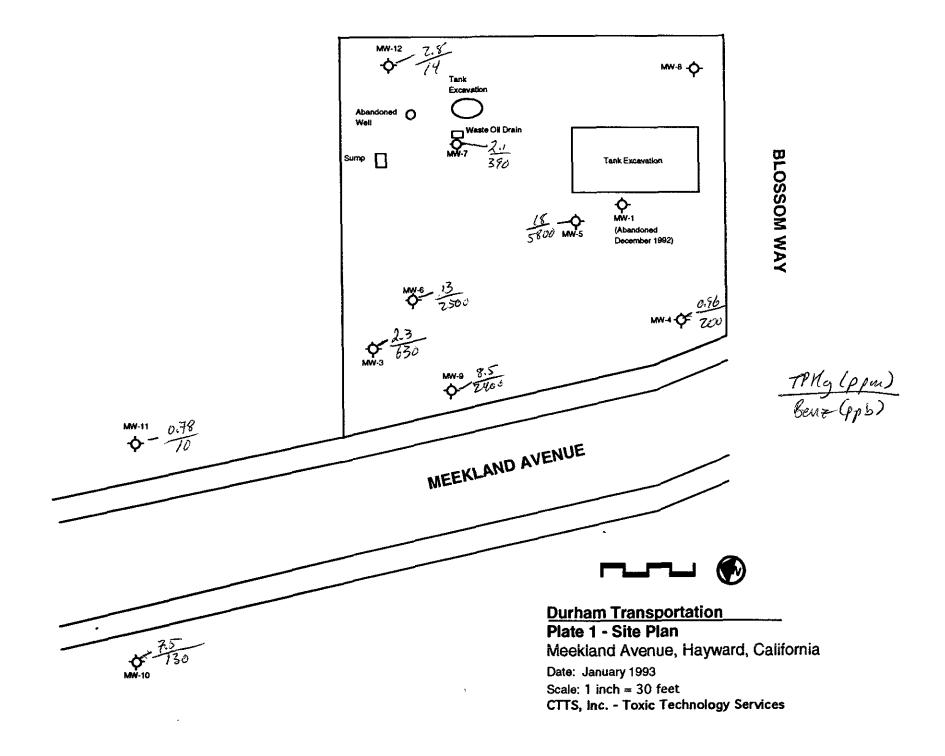
All wells except MW-8, MW-11 and MW-12 are over the MCL in drinking water for 1,2-Dichloroethane. All wells except MW-8 are over the MCL for Benzene. MW-6 is over the MCL for Xylenes. MW-5, MW-6 and MW-9 are over the recommended drinking water action level for Toluene.

Trace levels of Tetrachloroethane were found in MW-7 and MW-8. The highest level of gasoline was found in MW-5. MW-5 is now the closest well to the fuel tank excavation.

Petroleum hydrocarbons heavier than gasoline, but lighter than diesel, were found in every well except MW-8. This seems to indicate the presence of very old gasoline.

MW-8, the on site up gradient well, contains trace levels of Tetrachloroethene. This is consistent with previous sampling rounds. Levels of contamination in MW-8, when present, are substantially lower than in the rest of the wells and still seem to indicate that the source of contamination was located on site.

The most recently installed well, MW-12, indicates that there are low levels of contamination located at the northeast corner of the site. The contamination appears to be old gasoline.



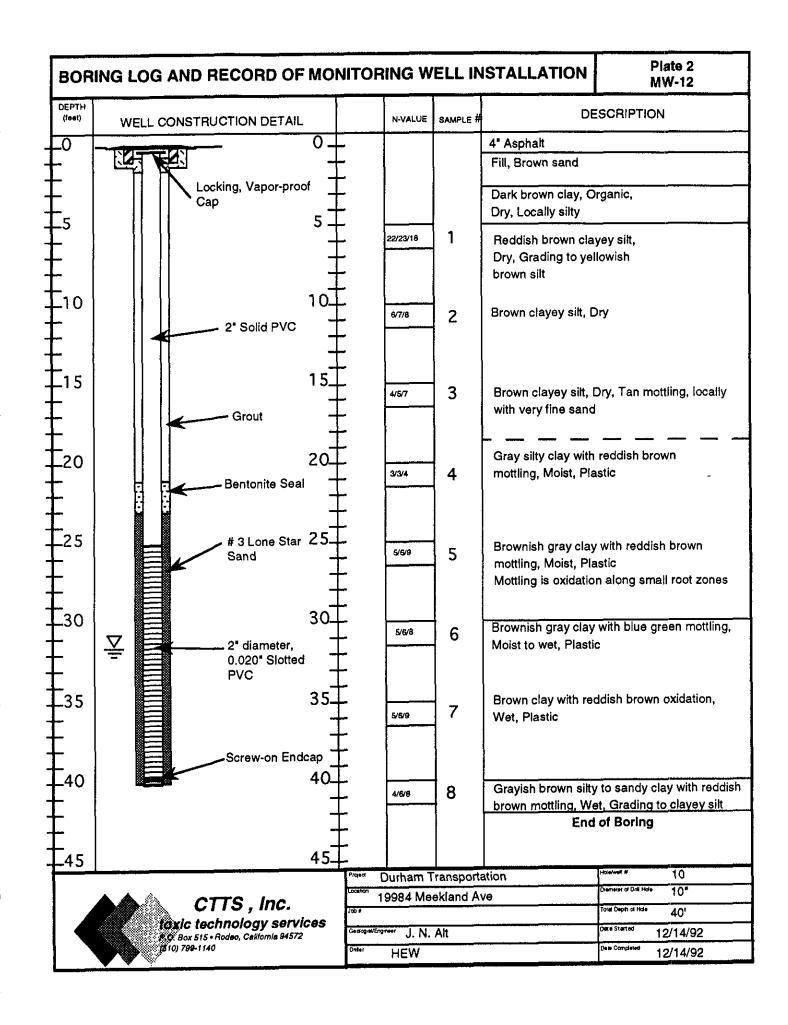


TABLE 1

GROUNDWATER ELEVATIONS (feet above MSL)

DURHAM TRANSPORTATION--MEEKLAND PROJECT

DATE	MW3	MW4	MW5	MW6	MW7	8WM	MW9	MW10	MW11	MW12
Jan-91	25.16	25.22	25.54	25.16	25.21	•	•	•	•	•
Feb-91	25.38	25.45	25.39	25.40	25.46	25.48	25.40	•	•	•
Mar-91	27.45	29.56	26.62	27.46	27.50	27.40	27.40	•	•	•
Apr-91	28.09	27.99	28.04	28,00	28.02	28.06	27.99	•	•	•
May-91	27.12	27.16	27.17	27.11	27.19	27.19	27.13	•	•	•
Jun-91	26.45	26.56	26.77	26.46	26.53	26.57	26.58	•	•	•
Jul-91	26.04	26.05	26.13	26.04	26.10	26.13	26.04	•		•
Aug-91	25.49	25.62	25.37	25.50	25.59	25.60	25.52	•	•	•
Sep-91	25.18	25.18	25.49	25.06	25.16	25.18	25.15	•	•	•
Oct-91	24.86	24.92	25.00	24.82	24.97	24.94	24.84	•	•	•
Nov-91	24.90	24.97	24.94	24.87	24.94	24.96	24.89	•	•	•
Dec-91	24.69	24.78	24.89	24.67	24.76	24.79	24.70	•	•	•
Jan-92	25.31	25.28	25.48	25.31	25.37	25.37	25.32	25.16	25.90	•
Feb-92	28.23	28.22	28.24	28,15	28.24	28,26	28.19	28.37	28.18	•
Mar-92	28.54	28.46	28.49	28.40	28.46	28.59	28.42	28.32	28.41	•
Apr-92	28.43	28.48	28.39	28.43	28.49	28.51	28.44	28.32	28.44	•
May-92	27.76	27.75	27.79	27.56	27.75	27.79	27.70	27.67	27.68	•
Jun-92	26.92	26.87	26.88	26.81	26.87	26.92	26.81	26.64	26.76	•
Jul-92	26.40	26.47	26.49	26.41	28.16	26.53	26.41	26.23	26.37	•
Aug-92	25.88	25.85	25.81	25.76	25.83	25.88	25.79	25.26	26.07	•
Sep-92	25.68	25.64	25.60	25.56	25.61	25.67	25.56	25.39	25.54	•
Oct-92	25.30	25.27	25.29	25.17	25.23	25.32	25.19	25.00	25.14	•
Nov-92	25.17	25.25	25.25	25.17	25.25	25.29	25.19	25.01	25.13	•
Dec-92	26.10	26.06	26.03	26.02	26.05	26.10	26.02	25.92	26.08	26.35
Jan-93	30.74	30.76	30.72	30.73	30.82	30.82	30.74	30.65	30.74	30.82

MW-1 abandoned December 14, 1992. Consult previous reports for MW-1 data.

GROUNDWATER ODOR AND SHEEN OBSERVATIONS DURHAM TRANSPORTATION--MEEKLAND PROJECT

	мwз	M	W 4	M W 5	M W 6	M W 7	8 W M	M W 9	M W 1 0	M W 11	MW12
Jan-91		-	-		0 -	o -					
Feb-91		-	-	0 -	0 -			0 -			
Mar-91	ХХ	X	X	хх	хх	хх	хх	хх			
Apr-91		-	S								
May-91		-	-	o -							
Jun-91		-	-	o -				<u>. </u>			
Jul-91		-	-		0 -						
Aug-91		0	-	o -	o -	0 -					
Sep-91		-	-	o -	o -						
Oct-91		-	-								
Nov-91		-	-	o -	0 -						
Dec-91	0 -	-	-	o -	o -						
Jan-92	0 -	-	-	o -	0 -			0 -	0 -	0 -	
Feb-92		-	-	o -					0 -		
Mar-92		-	-	o S				0 -	o -		
Арг-92	o -	-	-	o -	0 -				o -		
May-92	o -	-	•	o -		o -			0 -	0 -	
Jun-92		-	-						0 -		
Jul-92		-	•	o -							
Aug-92		-	•	o -							
Sep-92		-	-	o -					0 -		
Oct-92		-	-	0 -	0 -				0 -		
Nov-92		-	-	o -	0 -			o -	o -	0 -	
Dec-92		-	-								o -
Jan-93	o -	-	-	0 -				o -			

O=Strong Odor o=Slight Odor S=Sheen -=None Present X= No Observation Made

MW-1 abandoned December 14, 1992. Consult previous reports for MW-1 data.

TABLE 2

GROUNDWATER CHEMICAL DATA--JANUARY 1993
DURHAM TRANSPORTATION--MEEKLAND PROJECT

PARAMETER	<u>UNITS</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>	<u>MW-5</u> DUP	<u>MW-6</u>	<u>MW-7</u>
Gasoline	mg/L	2.3	0.96	18	19	13	2.1
Diesel	mg/L	0.68	0.24	1.9	2.1	2.1	0.66
Benzene Ethylbenzene Toluene Xylenes 1,2-Dichloroethane Tetrachloroethene	ug/L	630	200	5800	4600	2500	390
	ug/L	180	41	560	370	370	100
	ug/L	31	4.6	1900	1600	540	21
	ug/L	330	9.4	1600	1400	2400	270
	ug/L	13	1.0	110	120	36	3.7
	ug/L	ND	ND	ND	ND	ND	0.60
		<u>MW-8</u>	<u>MW-9</u>	<u>MW-10</u>	<u>MW-11</u>	BLANK	
Gasoline	mg/L	ND	8.5	7.5	0.78	ND	
Diesel	mg/L	ND	0.74	2.2	0.37	ND	
Benzene Ethylbenzene Toluene Xylenes 1,2-Dichloroethane Tetrachloroethene	ug/L ug/L ug/L ug/L ug/L	ND ND ND ND ND 0.80	2400 390 620 1500 29 ND	130 170 20 710 18 ND	10 2.1 ND 39 ND ND	ND ND ND ND ND ND	

[•] The positive result for the Petroleum Hydrocarbon as Diesel analysis on this sample appears to be a lighter hydrocarbon than Diesel.

TABLE 3

MONITORING WELL INSTALLATION -- DECEMBER 1992 SOIL AND GROUNDWATER CHEMICAL DATA

DURHAM TRANSPORTATION--MEEKLAND PROJECT

MW-12

WATER Sampled 12/21/92

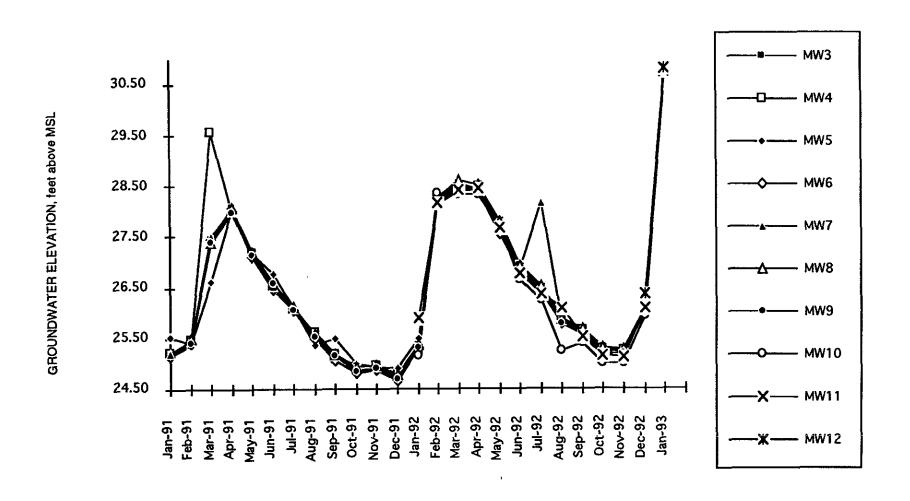
Gasoline	mg/L	2.8
Diesel	mg/L	*1.7
Benzene	ug/L	14
Ethylbenzene	ug/L	ND
Toluene	ug/L	ND
Xylenes	ug/L	29
1,2-Dichloroethane	ug/L	ND
Tetrachloroethene	ug/L	ND

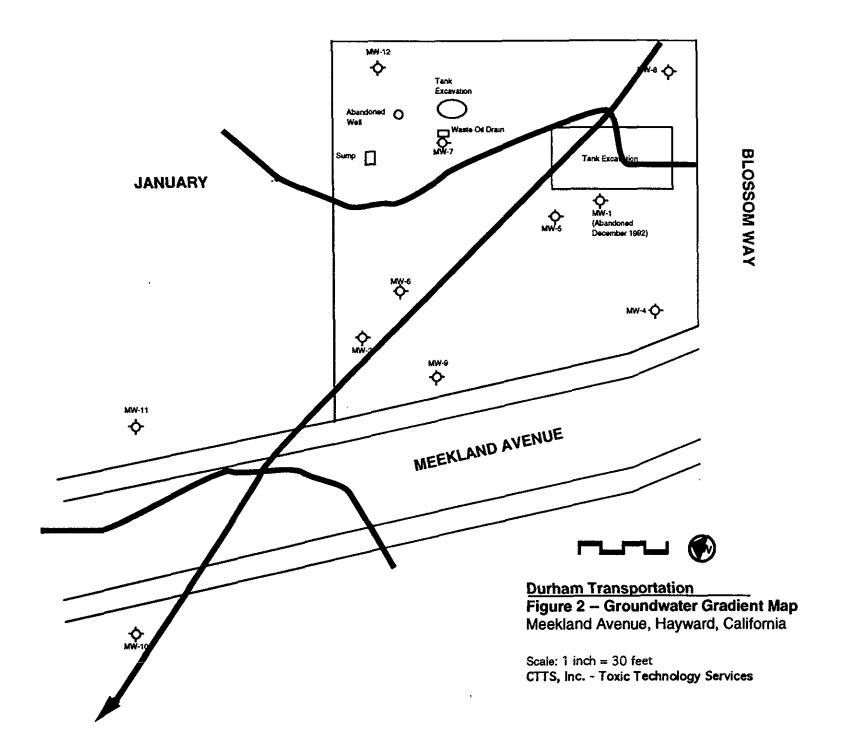
SOIL Sampled 12/14/92

DEPTH		20'	30'	40'
Gasoline	mg/Kg	ND	29	ND
Diesel	mg/Kg	ND	*11	ND
Benzene	ug/Kg	ND	78	ND
Ethylbenzene	ug/Kg	ND	100	ND
Toluene	ug/Kg	ND	ND	ND
Xylenes	ug/Kg	ND	160	ND

^{*} The positive result for the Petroleum Hydrocarbon as Diesel analysis on this sample appears to be a lighter hydrocarbon than Diesel.

FIGURE 1
DURHAM TRANSPORTATION — MEEKLAND PROJECT
GROUNDWATER ELEVATIONS, feet above MSL





APPENDIX A



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Lisa A. Polos Toxic Technology Services PO Box 515 Rodeo, CA 94572 Date: 02/17/1993

NET Client Acct No: 70700 NET Pacific Job No: 93.00315

Received: 01/30/1993

Client Reference Information

Durham-Meekland Ave/93-1MZ

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

oules Skamarack Laboratory Manager

JS:rct Enclosure(s)



Date: 02/17/1993

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Ref: Durham-Meekland Ave/93-1MZ

	MW-3	MW-4			
	01/28/1993	01/28/1993	Banartina		
Parameter	150066	150067	Reporting Limit	Units	Method
TPH (Gas/BTXE,Liquid)					
METHOD 5030 (GC,FID)					
DATE ANALYZED	02-04-93	02-03-93			
DILUTION FACTOR*	10	1			
as Gasoline	2.3	0.96	0.05	mg/L	5030
METHOD 8020 (GC, Liquid)	→ →	7 7			
DATE ANALYZED	02-04-93	02-03-93			
DILUTION FACTOR*	10	1			
Benzene	630	200	0.5	ug/L	8020
Ethylbenzene	180	41	0.5	ug/L	8020
Toluene	31	4.6	0.5	ug/L	8020
Xylenes (Total)	330	9.4	0.5	ug/L	8020
SURROGATE RESULTS					
Bromofluorobenzene	94	94		% Rec.	5030 _
METHOD 3510 (GC,FID)					
DILUTION FACTOR*	1	1			
DATE EXTRACTED	02-04-93	02-04-93			
DATE ANALYZED	02-08-93	02-08-93			
as Diesel	0.68**	0.24**	0.05	mg/L	3510

^{**} The positive result for Petroleum Hydrocarbons as Diesel appears to be due to the presence of lighter hydrocarbons rather than Diesel.



Date: 02/17/1993

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Ref: Durham-Meekland Ave/93-1MZ

	MW-3	MW-4			
	01/28/1993	01/28/1993	D =		
Parameter	150066	150067	Reporting Limit	Units	Method
METHOD 601 (GC, Liquid)	<u> </u>				
DATE ANALYZED	02-09-93	02-09-93			
DILUTION FACTOR*	1	1			
Bromodichloromethane	ND	ND	0.4	ug/L	601
Bromoform	ND	ND	0.4	ug/L	601
Bromomethane	ИD	ND	0.4	ug/L	601
Carbon tetrachloride	ND	ND	0.4	ug/L	601
Chlorobenzene	ND	ND	0.4	ug/L	601
Chloroethane	ND	ИD	0.4	ug/L	601
2-Chloroethylvinyl ether	ND	ND	1.0	ug/L	601
Chloroform	ND	ND	0.4	ug/L	601
Chloromethane	ND	ND	0.4	ug/L	601
Dibromochloromethane	ND	ND	0.4	ug/L	601
1,2-Dichlorobenzene	ND	ND	0.4	ug/L	601 _
1,3-Dichlorobenzene	ND	ND	0.4	ug/L	601
1,4-Dichlorobenzene	ND	ND	0.4	ug/L	601
Dichlorodifluoromethane	ND	ND	0.4	ug/L	601
1,1-Dichloroethane	ND	ND	0.4	ug/L	601
1,2-Dichloroethane	13	1.0	0.4	ug/L	601
1,1-Dichloroethene	ND	ND	0.4	ug/L 🍃	601
trans-1,2-Dichloroethene	ND	ИD	0.4	ug/L	601
1,2-Dichloropropane	ND	ND	0.4	ug/L	601
cis-1,3-Dichloropropene	ND	ND	0.4	ug/L	601
trans-1,3-Dichloropropene	ND	ND	0.4	ug/L	601
Methylene chloride	ND	ND	10	ug/L	601
1,1,2,2-Tetrachloroethane	ИD	ND	0.4	ug/L	601
Tetrachloroethene	ND	ND	0.4	ug/L	601
1,1,1-Trichloroethane	ND	ND	0.4	ug/L	601
1,1,2-Trichloroethane	ND	ND	0.4	ug/L	601
Trichloroethene	ND	ND	0.4	ug/L	601
Trichlorofluoromethane	ND	ND	0.4	ug/L	601
Vinyl chloride	ND	ND	0.4	ug/L	601
SURROGATE RESULTS					
1,4-Difluorobenzene	79	91		% Rec.	601
1,4-Dichlorobutane	86	98		% Rec.	601



Client No: 70700 Client Name: Toxic Technology Services

NET Log No: 93.00315

Date: 02/17/1993

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Ref: Durham-Meekland Ave/93-1MZ

	MW-11	MW-5			
	01/28/1993	01/29/1993	B # #	_	
Parameter	150068	150069	Reporting Limit	Units	Method
TPH (Gas/BTXE,Liquid)					
METHOD 5030 (GC, FID)					
DATE ANALYZED	02-03-93	02-06-93			
DILUTION FACTOR*	1	100			
as Gasoline	0.78	18	0.05	mg/L	5030
METHOD 8020 (GC, Liquid)					
DATE ANALYZED	02-03-93	02-06-93			
DILUTION FACTOR*	1	1,000			
Benzene	10	5,800	0.5	ug/L	8020
Ethylbenzene	2.1	560	0.5	ug/L	8020
Toluene	ND	1,900	0.5	ug/L	8020
Xylenes (Total)	39	1,600	0.5	ug/L	8020
SURROGATE RESULTS					
Bromofluorobenzene	97	83		% Rec.	5030 _
METHOD 3510 (GC,FID)					
DILUTION FACTOR*	1	1			
DATE EXTRACTED	02-04-93	02-04-93			
DATE ANALYZED	02-08-93	02-08-93			
as Diesel	0.37**	1.9**	0.05	mg/L	3510

^{**} The positive result for Petroleum Hydrocarbons as Diesel appears to be due to the presence of lighter hydrocarbons rather than Diesel.



Date: 02/17/1993

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Ref: Durham-Meekland Ave/93-1MZ

	MW-11	MW-5			,
	01/28/1993	01/29/1993			
Parameter	150068	150069	Reporting Limit	Units	Method
METHOD 601 (GC, Liquid)					
DATE ANALYZED	02-09-93	02-09-93			
DILUTION FACTOR*	1	1			
Bromodichloromethane	ND	ND	0.4	ug/L	601
Bromoform	ND	ND	0.4	ug/L	601
Bromomethane	ND	ND	0.4	ug/L	601
Carbon tetrachloride	ND	ND	0.4	ug/L	601
Chlorobenzene	ND	ND	0.4	ug/L	601
Chloroethane	ND	ND	0.4	ug/L	601
2-Chloroethylvinyl ether	ND	ND	1.0	ug/L	601
Chloroform	ND	ND	0.4	ug/L	601
Chloromethane	ND	ND	0.4	ug/L	601
Dibromochloromethane	ND	ND	0.4	ug/L	601
1,2-Dichlorobenzene	ND	ND	0.4	ug/L	601 -
1,3-Dichlorobenzene	ND	ND	0.4	ug/L	601
1,4-Dichlorobenzene	ND	ND	0.4	ug/L	601
Dichlorodifluoromethane	ND	ND	0.4	ug/L	601
1,1-Dichloroethane	ND	ND	0.4	ug/L	601
1,2-Dichloroethane	ND	110	0.4	ug/L	601
1,1-Dichloroethene	ND	ND	0.4	ug/L	601
trans-1,2-Dichloroethene	ND	ND	0.4	ug/L	601
1,2-Dichloropropane	ND	ND	0.4	ug/L	601
cis-1,3-Dichloropropene	ND	ND	0.4	ug/L	601
trans-1,3-Dichloropropene	ND	ND	0.4	ug/L	601
Methylene chloride	ND	ND	10	ug/L	601
1,1,2,2-Tetrachloroethane	ND	ND	0.4	ug/L	601
Tetrachloroethene	ND	ND	0.4	ug/L	601
1,1,1-Trichloroethane	ND	ND	0.4	ug/L	601
1,1,2-Trichloroethane	ND	ND	0.4	ug/L	601
Trichloroethene	ND	ND	0.4	ug/L	601
Trichlorofluoromethane	ND	ND	0.4	ug/L	601
Vinyl chloride	ND	ND	0.4	ug/L	601
SURROGATE RESULTS					
1,4-Difluorobenzene	104	48		% Rec.	601
1,4-Dichlorobutane	115	129		% Rec.	601
-,					



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	MW-6	MW-7			
	01/29/1993	01/29/1993	Name white a		
Parameter	150070	150071	Reporting Limit	Units	Method
TPH (Gas/BTXE, Liquid)					
METHOD 5030 (GC, FID)					
DATE ANALYZED	02-04-93	02-04-93			
DILUTION FACTOR*	10	1			
as Gasoline	13	2.1	0.05	mg/L	5030
METHOD 8020 (GC, Liquid)					
DATE ANALYZED	02-04-93	02-04-93			
DILUTION FACTOR*	10	1			
Benzene	2,500	390	0.5	ug/L	8020
Ethylbenzene	370	100	0.5	ug/L	8020
Toluene	540	21	0.5	\mathtt{ug}/\mathtt{L}	8020
Xylenes (Total)	2,400	270	0.5	ug/L	8020
SURROGATE RESULTS					
Bromofluorobenzene	91	95		% Rec.	5030
METHOD 3510 (GC, FID)					
DILUTION FACTOR*	1	1			
DATE EXTRACTED	02-04-93	02-04-93			
DATE ANALYZED	02-08-93	02-08-93			
as Diesel	2.1**	0.66**	0.05	mg/L	3510
40 01001				-,	

^{**} The positive result for Petroleum Hydrocarbons as Diesel appears to be due to the presence of lighter hydrocarbons rather than Diesel.



Client No: 70700 Client Name: Toxic Technology Services

NET Log No: 93.00315

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Ref: Durham-Meekland Ave/93-1MZ

	MW-6	MW-7			
	01/29/1993	01/29/1993			
Parameter	150070	150071	Reporting Limit	y Units	Method
Parameter			DIMIC	Onics	riechod
METHOD 601 (GC, Liquid)					
DATE ANALYZED	02-09-93	02-09-93			
DILUTION FACTOR*	1	1			
Bromodichloromethane	ND	ND	0.4	ug/L	601
Bromoform	ИD	ИD	0.4	ug/L	601
Bromomethane	ND	ND	0.4	ug/L	601
Carbon tetrachloride	ND	ND	0.4	ug/L	601
Chlorobenzene	ND	ND	0.4	ug/L	601
Chloroethane	ИD	ИD	0.4	ug/L	601
2-Chloroethylvinyl ether	ND	ND	1.0	ug/L	601
Chloroform	ND	ND	0.4	ug/L	601
Chloromethane	ND	ND	0.4	ug/L	601
Dibromochloromethane	ND	ND	0.4	ug/L	601
1,2-Dichlorobenzene	ND	ND	0.4	ug/L	601 _
1,3-Dichlorobenzene	ND	ND	0.4	ug/L	601
1,4-Dichlorobenzene	ND	ИD	0.4	ug/L	601
Dichlorodifluoromethane	ND	ИD	0.4	ug/L	601
1,1-Dichloroethane	ND	ИD	0.4	ug/L	601
1,2-Dichloroethane	36	3.7	0.4	ug/L	601
1,1-Dichloroethene	ИD	ND	0.4	ug/L	601
trans-1,2-Dichloroethene	ND	ИD	0.4	ug/L	601
1,2-Dichloropropane	ND	ND	0.4	ug/L	601
cis-1,3-Dichloropropene	ND	ND	0.4	ug/L	601
trans-1,3-Dichloropropene	ИD	ИD	0.4	ug/L	601
Methylene chloride	ND	ND	10	ug/L	601
1,1,2,2-Tetrachloroethane	ND	ND	0.4	ug/L	601
Tetrachloroethene	ND	0.6	0.4	ug/L	601
1,1,1-Trichloroethane	ND	ND	0.4	ug/L	601
1,1,2-Trichloroethane	ИD	ND	0.4	ug/L	601
Trichloroethene	ND	ND	0.4	ug/L	601
Trichlorofluoromethane	ND	ИD	0.4	ug/L	601
Vinyl chloride	ND	ИD	0.4	ug/L	601
SURROGATE RESULTS				•	
1,4-Difluorobenzene	63	87		% Rec.	601
1,4-Dichlorobutane	112	102		% Rec.	601



Client No: 70700

Client Name: Toxic Technology Services

NET Log No: 93.00315

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Ref: Durham-Meekland Ave/93-1MZ

	8-WM	MW-9			
	01/29/1993	01/29/1993	_ ,		
Parameter	150072	150073	Reporting Limit	Units	Method
TPH (Gas/BTXE, Liquid)					
METHOD 5030 (GC,FID)					
DATE ANALYZED	02-04-93	02-04-93			
DILUTION FACTOR*	1	10			
as Gasoline	ND	8.5	0.05	mg/L	5030
METHOD 8020 (GC, Liquid)					
DATE ANALYZED	02-04-93	02-04-93			
DILUTION FACTOR*	1	10			
Benzene	ND	2,400	0.5	ug/L	8020
Ethylbenzene	ND	390	0.5	ug/L	8020
Toluene	ND	620	0.5	ug/L	8020
Xylenes (Total)	ИD	1,500	0.5	ug/L	8020
SURROGATE RESULTS	 *				
Bromofluorobenzene	92	89		% Rec.	5030 -
METHOD 3510 (GC, FID)					
DILUTION FACTOR*	1	1			
DATE EXTRACTED	02-04-93	02-04-93			
DATE ANALYZED	02-08-93	02-08-93			
as Diesel	ND	0.74**	0.05	mg/L	3510

 $[\]star\star$ The positive result for Petroleum Hydrocarbons as Diesel appears to be due to the presence of lighter hydrocarbons rather than Diesel.



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Ref: Durham-Meekland Ave/93-1MZ

	MW-8	MW-9			
	01/29/1993	01/29/1993			
Parameter	150072	150073	Reporting Limit	g Units	Method
METHOD 601 (GC, Liquid)					
DATE ANALYZED	02-09-93	02-09-93			
DILUTION FACTOR*	1	1			
Bromodichloromethane	ND	ND	0.4	ug/L	601
Bromoform	ND	ND	0.4	ug/L	601
Bromomethane	ND	ND	0.4	ug/L	601
Carbon tetrachloride	ND	ND	0.4	ug/L	601
Chlorobenzene	ND	ND	0.4	ug/L	601
Chloroethane	ND	ND	0.4	ug/L	601
2-Chloroethylvinyl ether	ND	ND	1.0	ug/L	601
Chloroform	ND	ND	0.4	ug/L	601
Chloromethane	ND	ND	0.4	ug/L	601
Dibromochloromethane	ND	ND	0.4	ug/L	601
1,2-Dichlorobenzene	ND	ND	0.4	ug/L	601 -
1,3-Dichlorobenzene	ND	ND	0.4	ug/L	601
1,4-Dichlorobenzene	ND	ND	0.4	ug/L	601
Dichlorodifluoromethane	ND	ND	0.4	ug/L	601
1,1-Dichloroethane	ND	ND	0.4	ug/L	601
1,2-Dichloroethane	ND	29	0.4	ug/L	601
1,1-Dichloroethene	ND	ND	0.4	ug/L	601
trans-1,2-Dichloroethene	ND	ND	0.4	ug/L	601
1,2-Dichloropropane	ND	ND	0.4	ug/L	601
cis-1,3-Dichloropropene	ИD	ИD	0.4	ug/L	601
trans-1,3-Dichloropropene	ND	ИD	0.4	ug/L	601
Methylene chloride	ND	ND	10	ug/L	601
1,1,2,2-Tetrachloroethane	ND	ND	0.4	ug/L	601
Tetrachloroethene	0.8	ND	0.4	ug/L	601
1,1,1-Trichloroethane	ND	ND	0.4	ug/L	601
1,1,2-Trichloroethane	ND	ND	0.4	ug/L	601
Trichloroethene	ND	ND	0.4	ug/L	601
Trichlorofluoromethane	ND	ND	0.4	ug/L	601
Vinyl chloride	ND	ND	0.4	ug/L	601
SURROGATE RESULTS					
1,4-Difluorobenzene	105	69		% Rec.	601
1,4-Dichlorobutane	104	107		% Rec.	601



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Ref: Durham-Meekland Ave/93-1MZ

	MW-10	MW-5D			
	01/29/1993	01/29/1993			
Parameter	150074	150075	Reporting Limit	Units	Method
				<u></u>	
TPH (Gas/BTXE,Liquid)					
METHOD 5030 (GC, FID)					
DATE ANALYZED	02-04-93	02-04-93			
DILUTION FACTOR*	10	10			
as Gasoline	7.5	19	0.05	mg/L	5030
METHOD 8020 (GC, Liquid)					
DATE ANALYZED	02-04-93	02-04-93			
DILUTION FACTOR*	10	1			
Benzene	130	4,600	0.5	ug/L	8020
Ethylbenzene	170	370	0.5	ug/L	8020
Toluene	20	1,600	0.5	ug/L	8020
Xylenes (Total)	710	1,400	0.5	ug/L	8020
SURROGATE RESULTS		- <i>-</i>			
Bromofluorobenzene	91	83		% Rec.	5030 -
METHOD 3510 (GC,FID)					
DILUTION FACTOR*	1	1			
DATE EXTRACTED	02-04-93	02-04-93			
DATE ANALYZED	02-08-93	02-08-93			
as Diesel	2.2**	2.1**	0.05	mg/L	3510

^{**} The positive result for Petroleum Hydrocarbons as Diesel appears to be due to the presence of lighter hydrocarbons rather than Diesel.



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Ref: Durham-Meekland Ave/93-1MZ

	MW-10	MW-5D			
	01/29/1993	01/29/1993			
Parameter	150074	150075	Reporting Limit	g Units	Method
METHOD 601 (GC, Liquid)					
DATE ANALYZED	02-09-93	02-09-93			
DILUTION FACTOR*	1	1			
Bromodichloromethane	ND	ND	0.4	ug/L	601
Bromoform	ND	ND	0.4	ug/L	601
Bromomethane	ND	ND	0.4	ug/L	601
Carbon tetrachloride	ND	ND	0.4	ug/L	601
Chlorobenzene	ИD	ND	0.4	ug/L	601
Chloroethane	ND	ND	0.4	ug/L	601
2-Chloroethylvinyl ether	ND	ND	1.0	ug/L	601
Chloroform	ND	ND	0.4	ug/L	601
Chloromethane	ND	ND	0.4	ug/L	601
Dibromochloromethane	ND	ND	0.4	ug/L	601
1,2-Dichlorobenzene	ND	ND	0.4	ug/L	601 ⁻
1,3-Dichlorobenzene	ND	ND	0.4	ug/L	601
1,4-Dichlorobenzene	ND	ND	0.4	ug/L	601
Dichlorodifluoromethane	ND	ND	0.4	ug/L	601
1,1-Dichloroethane	ND	ND	0.4	ug/L	601
1,2-Dichloroethane	18	120	0.4	ug/L	601
1,1-Dichloroethene	ND	ND	0.4	ug/L	601
trans-1,2-Dichloroethene	ND	ND	0.4	ug/L	601
1,2-Dichloropropane	ND	ND	0.4	ug/L	601
cis-1,3-Dichloropropene	סמ	ND	0.4	\mathtt{ug}/\mathtt{L}	601
trans-1,3-Dichloropropene	ND	ND	0.4	${\tt ug/L}$	601
Methylene chloride	ND	ND	10	\mathtt{ug}/\mathtt{L}	601
1,1,2,2-Tetrachloroethane	ND	ND	0.4	ug/L	601
Tetrachloroethene	ND	ND	0.4	ug/L	601
1,1,1-Trichloroethane	ND	ND	0.4	ug/L	601
1,1,2-Trichloroethane	ND	ND	0.4	ug/L	601
Trichloroethene	ND	ND	0.4	ug/L	601
Trichlorofluoromethane	ND	ND	0.4	ug/L	601
Vinyl chloride	ND	ND	0.4	ug/L	601
SURROGATE RESULTS					
1,4-Difluorobenzene	112	222		% Rec.	601
1,4-Dichlorobutane	98	107		% Rec.	601



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Ref: Durham-Meekland Ave/93-1MZ

Descriptor, Lab No. and Results

B-1

01/29/1993

		Reporting	Reporting						
Parameter	150076	Limit	Units	Method					
TPH (Gas/BTXE,Liquid)									
METHOD 5030 (GC,FID)									
DATE ANALYZED	02-04-93								
DILUTION FACTOR*	1								
as Gasoline	ND	0.05	mg/L	5030					
METHOD 8020 (GC, Liquid)									
DATE ANALYZED	02-04-93								
DILUTION FACTOR*	1								
Benzene	ND	0.5	ug/L	8020					
Ethylbenzene	ND	0.5	ug/L	8020					
Toluene	ND	0.5	ug/L	8020					
Xylenes (Total)	ND	0.5	ug/L	8020					
SURROGATE RESULTS									
Bromofluorobenzene	96		% Rec.	5030 _					
METHOD 3510 (GC,FID)									
DILUTION FACTOR*	1								
DATE EXTRACTED	02-04-93								
DATE ANALYZED	02-08-93								
as Diesel	ND	0.05	mg/L	3510					



Date: 02/17/1993

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Ref: Durham-Meekland Ave/93-1MZ

Descriptor, Lab No. and Results

B-1

01/29/1993

### METHOD 601 (GC,Liquid) DATE ANALYZED		0=/=2/=220	Reporting	Reporting					
DATE ANALYZED 02-09-93	Parameter	150076	Limit	Units	Method				
DATE ANALYZED 02-09-93	METHOD 601 (GC, Liquid)								
DILUTION FACTOR* 1		02-09-93							
Bromodichloromethane	DILUTION FACTOR*	1							
Bromomethane		ND	0.4	ug/L					
Carbon tetrachloride ND 0.4 ug/L 601 Chlorobenzene ND 0.4 ug/L 601 Chloroethane ND 0.4 ug/L 601 2-Chloroethylvinyl ether ND 1.0 ug/L 601 Chloroform ND 0.4 ug/L 601 Chloromethane ND 0.4 ug/L 601 Dibromochloromethane ND 0.4 ug/L 601 1,2-Dichlorobenzene ND 0.4 ug/L 601 1,3-Dichlorobenzene ND 0.4 ug/L 601 1,4-Dichlorobenzene ND 0.4 ug/L 601 1,1-Dichlorobenzene ND 0.4 ug/L 601 1,1-Dichlorobenzene ND 0.4 ug/L 601 1,1-Dichlorobenzene ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,2-Dichloroethene ND 0.4 ug/L <td>Bromoform</td> <td>ND</td> <td>0.4</td> <td>ug/L</td> <td></td>	Bromoform	ND	0.4	ug/L					
Chlorobenzene ND 0.4 ug/L 601 Chloroethane ND 0.4 ug/L 601 2-Chloroethylvinyl ether ND 1.0 ug/L 601 Chloroform ND 0.4 ug/L 601 Chloromethane ND 0.4 ug/L 601 Chloromethane ND 0.4 ug/L 601 Dibromochloromethane ND 0.4 ug/L 601 1,2-Dichlorobenzene ND 0.4 ug/L 601 1,3-Dichlorobenzene ND 0.4 ug/L 601 1,4-Dichlorobenzene ND 0.4 ug/L 601 Dichlorodifluoromethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloropenpane ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropene ND 0.4 ug/L 601 1,2-Z-Tetrachloroethane ND 0.4 ug/L 601 Tetrachloroethane ND 0.4 ug/L 601 1,1,2-Trichloroethane ND 0.4 ug/L 601 1,1,2-Trichloroethane ND 0.4 ug/L 601 Trichlorofluoromethane ND 0.4 ug/L 601	Bromomethane	ND	0.4	ug/L					
Chloroethane ND 0.4 ug/L 601 2-Chloroethylvinyl ether ND 1.0 ug/L 601 Chloroform ND 0.4 ug/L 601 Chloromethane ND 0.4 ug/L 601 Dibromochloromethane ND 0.4 ug/L 601 1,2-Dichlorobenzene ND 0.4 ug/L 601 1,3-Dichlorobenzene ND 0.4 ug/L 601 1,4-Dichlorobenzene ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloropopane ND 0.4 ug/L 601 1,1-Trichloroethane ND 0.4 ug/L 601 1,1,2,2-Tetrachloroethane ND 0.4 ug/L 601 1,1,1-Trichloroethane ND 0.4 ug/L 601 1,1,1-Trichloroethane ND 0.4 ug/L 601 1,1,2-Trichloroethane ND 0.4 ug/L 601 1,1,2-Trichloroethane ND 0.4 ug/L 601 Trichlorofluoromethane ND 0.4 ug/L 601	Carbon tetrachloride	ND	0.4	ug/L					
2-Chloroethylvinyl ether ND 1.0 ug/L 601 Chloroform ND 0.4 ug/L 601 Chloromethane ND 0.4 ug/L 601 Dibromochloromethane ND 0.4 ug/L 601 1,2-Dichlorobenzene ND 0.4 ug/L 601 1,3-Dichlorobenzene ND 0.4 ug/L 601 1,4-Dichlorobenzene ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,2-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Tetrachloroethane ND 0.4 ug/L 601 Tetrachloroethene ND 0.4 ug/L 601 1,1,2,2-Tetrachloroethane ND 0.4 ug/L 601 Tetrachloroethane ND 0.4 ug/L 601 Trichloroethane ND 0.4 ug/L 601 Trichlorofluoromethane ND 0.4 ug/L 601	Chlorobenzene	ND	0.4	ug/L	601				
Chloroform ND 0.4 ug/L 601 Chloromethane ND 0.4 ug/L 601 Dibromochloromethane ND 0.4 ug/L 601 1,2-Dichlorobenzene ND 0.4 ug/L 601 1,3-Dichlorobenzene ND 0.4 ug/L 601 1,4-Dichlorobenzene ND 0.4 ug/L 601 1,4-Dichlorobenzene ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropene ND 0.4 ug/L 601 1,2-Tichloropropene ND 0.4 ug/L 601 Cis-1,3-Dichloropropene ND 0.4 ug/L 601 Cis-1,3-Dichloropropene ND 0.4 ug/L 601 Cit-1,2-Tetrachloroethane ND 0.4 ug/L 601 1,1,2-Trichloroethane ND 0.4 ug/L 601 Tetrachloroethene ND 0.4 ug/L 601 1,1,1-Trichloroethane ND 0.4 ug/L 601 Trichloroethene ND 0.4 ug/L 601 Trichloroethene ND 0.4 ug/L 601 Trichloroethene ND 0.4 ug/L 601 Trichlorofluoromethane ND 0.4 ug/L 601 SURROGATE RESULTS	Chloroethane	ND	0.4	ug/L	601				
Chloroform ND 0.4 ug/L 601 Chloromethane ND 0.4 ug/L 601 Dibromochloromethane ND 0.4 ug/L 601 1,2-Dichlorobenzene ND 0.4 ug/L 601 1,3-Dichlorobenzene ND 0.4 ug/L 601 1,4-Dichlorobenzene ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Tichloropropene ND 0.4 ug/L 601 trans-1,3-Dichloropropene ND 0.4 ug/L 601 trans-1,3-Dichloropropene ND 0.4 ug/L 601 1,1,2,2-Tetrachloroethane ND 0.4 ug/L 601 1,1,2-Trichloroethane ND 0.4 ug/L 601 Tetrachloroethene ND 0.4 ug/L 601 1,1,2-Trichloroethane ND 0.4 ug/L 601 Trichloroethene ND 0.4 ug/L 601 Trichlorofluoromethane ND 0.4 ug/L 601 SURROGATE RESULTS	2-Chloroethylvinyl ether	ND	1.0	ug/L	601				
Dibromochloromethane ND 0.4 ug/L 601 1,2-Dichlorobenzene ND 0.4 ug/L 601 1,3-Dichlorobenzene ND 0.4 ug/L 601 1,4-Dichlorobenzene ND 0.4 ug/L 601 Dichlorodifluoromethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,2-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloroethene ND 0.4 ug/L 601 1,2-Dichloropropene ND 0.4 ug/L 601 cis-1,3-Dichloropropene ND 0.4 ug/L 601 trans-1,3-Dichloropropene ND 0.4 ug/L 601 1,1,2,2-Tetrachloroethane ND 0.4 ug/L 601 1,1,2-Trichloroethane ND 0.4 ug/L 601 1,1,2-Trichloroethane ND <td></td> <td>ND</td> <td>0.4</td> <td>ug/L</td> <td>601</td>		ND	0.4	ug/L	601				
1,2-Dichlorobenzene ND 0.4 ug/L 601 1,3-Dichlorobenzene ND 0.4 ug/L 601 1,4-Dichlorobenzene ND 0.4 ug/L 601 Dichlorodifluoromethane ND 0.4 ug/L 601 1,1-Dichloroethane ND 0.4 ug/L 601 1,2-Dichloroethane ND 0.4 ug/L 601 1,1-Dichloroethene ND 0.4 ug/L 601 1,1-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropane ND 0.4 ug/L 601 1,2-Dichloropropene ND 0.4 ug/L 601 trans-1,3-Dichloropropene ND 0.4 ug/L 601 trans-1,3-Dichloropropene ND 0.4 ug/L 601 trans-1,3-Dichloropropene ND 0.4 ug/L 601 1,1,2,2-Tetrachloroethane ND 0.4 ug/L 601 1,1,1-Trichloroethane ND 0.4 ug/L 601 1,1,2-Trichloroethane N	Chloromethane	ND	0.4	ug/L	601				
1,3-Dichlorobenzene ND		ND	0.4	ug/L	601				
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Vinyl chloride ND 0.4 ug/L 601 surrogate results					601				
SURROGATE RESULTS					601				
1.4-011100100602606 +00	1,4-Difluorobenzene	105		% Rec.	601				
1,4-Dichlorobutane 129 % Rec. 601	·			% Rec.	601				



Date: 02/17/1993

Page: 14

Ref: Durham-Meekland Ave/93-1MZ

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel	0.05	mg/L	116	ND	79	80	1.3
Motor Oil	0.5	mg/L	82	ND	N/A	N/A	N/A
Gasoline Benzene Toluene	0.05 0.5 0.5	mg/L ug/L ug/L	103 95 92	ND ND	99 95 95	102 99 97	3.0 3.6 1.9
Gasoline	0.05	mg/L	107	ND	101	103	2.0
Benzene	0.5	ug/L	100	ND	101	105	3.0
Toluene	0.5	ug/L	97	ND	98	98	<1
Gasoline	0.05	mg/L	109	ND	100	104	4.0
Benzene	0.5	ug/L	101	ND	95	95	<1
Toluene	0.5	ug/L	103	ND	93	94	<1

COMMENT: Blank Results were ND on other analytes tested.

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Benzene	0.5	ug/L	104	ND	116	117	<1
Toluene	0.5	uq/L	90	ND	112	117	1.3
1,1-Dichloroethene	0.4	ug/L	76	ND	88	93	5.5
Trichloroethene	0.4	ug/L	85	ИD	98	103	5.5
Chlorobenzene	0.4	ug/L	84	ND	86	109	24

COMMENT: Blank Results were ND on other analytes tested.



KEY TO ABBREVIATIONS and METHOD REFERENCES

Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.

* : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm): Concentration in units of milligrams of analyte per kilogram of sample,

wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed

reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

S/ (7	ANTA ROS. 07) 526-72	00 PHONE (707) 52	CONI CIRCLE, SANTA	ROSA, CA 95	dea	intect	889	(2)		PHO PRO PRO	NE _(JECT N	570) IAME/LO IUMBER IANAGE	+99 CATION -93	-114 N DA S-1 PV Lisz	o chem	CORD CO. CA. FAX SATING Messeled Are. TURNAROUND TIME 140	
_	DATE TIME	SAMPLE	SIGNAT	GRAB	CONTAINERS	PRESERVED			XX S							COMMENTS	
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APPENDIX B CTTS, Inc.



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

(510) 484-2600

7 December 1992

Toxic Technology Services P.O. Box 515 Rodeo, CA 94572

Gentlemen:

Enclosed is drilling permit 92624 for a monitoring well construction project at 19984 Meekland Avenue in Hayward for Durham Transportation.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number.

If you have any questions, please contact Wyman Hong or me at 484-2600.

Very truly yours,

Craig A. Mayfield

Water Resources Engineer III

WH:mm Enc.



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE

la A. Blos- Dato 12/3/92

PLEASANTON, CALIFORNIA 94588

(510) 484-2600

51991

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 19984 Meaklands Ave. Hoyward	PERMIT NUMBER 92624 LOCATION NUMBER
CLIENT Name Durhan Transportation Address 9/7/ Capitol of Temphone (512) 343-629	PERMIT CONDITIONS
APPLICANT Highway North, Travis Bld, Suitez	Circled Permit Requirements Apply
Name Toxic Technolog Cervices Address P.D. Box 515 Phone (5/0) 799-1140 City Rodon, CA Zip 94572	A.) GENERAL I. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
TYPE OF PROJECT Wall Construction Geotechnical Investigation Cathodic Protection General Water Supply Contamination Monitoring Well Destruction	 Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects. Fermit is void if project not begun within 90 days of approval date.
PROPOSED WATER SUPPLY WELL USE Domestic Industrial Other Municipal Irrigation DRILLING METHOD: Mud Rotary Air Rotary Auger Cebia Other	B.) WATER WELLS, INCLUDING PIEZOMETERS i. Minimum surface seal thickness is two inches of cement grout placed by tremie. 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for demestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for
WELL PROJECTS Orill Hole Diameter 8 in. Maximum Casing Diameter 2 in. Depth 40ft. Surface Seal Depth 21 ft. Number 1	manitoring wells is the maximum depth practicable or 20 feet. C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremled cement grout shall be used in place of compacted cuttings. D. CATHODIC. Fill hole above ande zone with concrete
Number of Borings Maximum Hole Otaneter in. Depth ft.	placed by tromie. E. WELL DESTRUCTION. See attached.
ESTIMATED STARTING DATE 12-14-92. ESTIMATED COMPLETION DATE 12-14-72	Warman Stone A 2 2 2 2 2 2
I hereby agree to comply with all requirements of this permit and Alamada County Ordinance No. 73-68.	Approved Wyman Hong Date 3 Dec 92 Wyman Hong



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

(510) 484-2600

8 December 1992

Toxic Technology Services P.O. Box 515 Rodeo, CA 94572

Gentlemen:

Enclosed is drilling permit 92625 for the destruction of well 3S/2W 17C80 at 19984 Meekland Avenue in Hayward for Durham Transportation.

Please note that permit condition A-2 requires that a well destruction report be submitted after completion of the work. The report should include a description of methods and materials used to destroy the well, location sketch, date of destruction and permit number.

If you have any questions, please contact Wyman Hong or me at 484-2600.

Very truly yours,

Craig A. Mayfield Water Resources Engineer III

WH:mm Enc.



permit and Alameda County Ordinance No. 73-68.

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

(510) 484-2600

tc tc

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 19984 Meschand Ave. Hayward	PERMIT NUMBER 92625 LOCATION NUMBER 3S/2W.17C80
CLIENT Name Durh 2m Transportation Address # Phone (572) 343-62 City Austra TR zip 78759 # 9171 (2p) fol of lexas Myhway North APPLICANT Trans Bldg, Swite 200	Circled Permit Requirements Apply
Address 7.D. BOX 515 Phone (570) 799-1140 City Propo CA ZIP 94572	A.) GENERAL i. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion
Well Construction Cathodic Protection Water Supply Monitoring Geotechnical Investigation General Contamination Well Destruction	of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects. 3. Permit is void if project not begun within 90
PROPOSED WATER SUPPLY WELL USE Damestic Industrial Other Municipal Irrigation DRILLING METHOD: Mud Rotary Air Rotary Auger Cable Other	days of approval date. 8. WATER WELLS, INCLUDING PIEZOMETERS 1. Minimum surface seal thickness is two inches of cement grout placed by tremie. 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is
DRILLER'S LICENSE NO. 604987 WELL PROJECTS Drill Hole Diameter In Maximum Casing Diameter In. Depth ft.	specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet. C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremted cement grout shall be used in
Surface Seal Dapth 11. Number GEOTECHNICAL PROJECTS Number of Borings / Maximum Hole Diameter 8 in. Depth 43 ft.	place of compacted cuttings. D. CATHODIC. Fill hole above anode zone with concrete placed by tremte. E. WELL DESTRUCTION. See attached.
ESTIMATED STARTING DATE IZ- 4-9Z	Approved Myman Hone Date 3 Dec 92

ZONE 7 WATER RESOURCES ENGINEERING DRILLING ORDINANCE

DURHAM TRANSPORTATION 19984 MEEKLAND AVENUE HAYWARD WELL 3S/2W 17C80 PERMIT 92625

Destruction Requirements:

- 1 Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
- 2. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
- 3. After seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by Lisa Polos of Toxic Technology Services meet or exceed the Zone 7 minimum requirements.

APPENDIX C

CTTS, Inc.



NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Lisa A. Polos Toxic Technology Services PO Box 515 Rodeo, CA 94572 Date: 12/30/1992 NET Client Acct. No: 70700 NET Pacific Job No: 92.49816 Received: 12/15/1992

Client Reference Information

19984 Meekland Ave.

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

Enclosure(s)



Client Acct: 70700 Client Name: Toxic Technology Services ® NET Job No: 92.49816

Date: 12/30/1992 Page: 2

Ref: 19984 Meekland Ave.

SAMPLE DESCRIPTION: MW-12-20-4

Date Taken: 12/14/1992

Time Taken:

LAB Job No: (-147308)

1175 COD NO. (1475	,,,	Reportin	na	
Parameter	<u>Method</u>	Limit	Results	Units
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			12-16-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC, Solid)				
DATE ANALYZED			12-16-92	
DILUTION FACTOR*			1	_
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		101	% Rec.
METHOD 3550 (GC, FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			12-18-92	
DATE ANALYZED			12-18-92	_
as Diesel	3550	1	ND	mg/Kg
as Motor Oil	3550	10	ND	mg/Kg



Client Acct: 70700 . Date: 12/30/1992 Client Name: Toxic Technology Services Page: 3 ® NET Job No: 92.49816

Ref: 19984 Meekland Ave.

SAMPLE DESCRIPTION: MW-12-20-4 Date Taken: 12/14/1992

Time Taken:

LAB Job No: (-147308)

### Method Limit Results Units	21.2 002 1.01 (217000	,	Reportin	ıg	
METHOD 8010 (GC, Solid) DATE ANALYZED DILUTION FACTOR* Bromodichloromethane 8010 2.0 ND ug/Kg Bromomethane 8010 2.0 ND ug/Kg Bromomethane 8010 2.0 ND ug/Kg Bromomethane 8010 2.0 ND ug/Kg Carbon tetrachloride 8010 2.0 ND ug/Kg Carbon tetrachloride 8010 2.0 ND ug/Kg Chloroethane 8010 2.0 ND ug/Kg Chloroethane 8010 2.0 ND ug/Kg Chloroform 8010 2.0 ND ug/Kg Chloroform 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg Dibromochloromethane 8010 2.0 ND ug/Kg 1,2-Dichlorobenzene 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg trans-1,2-Dichloroptopane 8010 2.0 ND ug/Kg trans-1,3-Dichloroptopane 8010 2.0 ND ug/Kg Tetrachloroethane 8010 2.0 ND ug/Kg Trichloroethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND	Parameter	Method	Limit	Results	Units
Date					
DILUTION FACTOR* Bromodichloromethane					
### Bromodichloromethane					
### STOND CONTRICT NOT CONTRICT				-	
### Bromomethane 8010 2.0 ND ug/Kg Carbon tetrachloride 8010 2.0 ND ug/Kg Chlorobenzene 8010 2.0 ND ug/Kg Chloroethane 8010 2.0 ND ug/Kg Chloroethane 8010 2.0 ND ug/Kg 2-Chloroethylvinyl ether 8010 5.0 ND ug/Kg Chloroform 8010 2.0 ND ug/Kg Chloroform 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg 1,2-Dichlorobenzene 8010 2.0 ND ug/Kg 1,4-Dichlorobenzene 8010 2.0 ND ug/Kg 1,4-Dichlorodifluoromethane 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloropropane 8010 2.0 ND ug/Kg 1,1,2-Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 80					
Carbon tetrachloride	— — — — — — — — — — — — — — — — — — —				
Chlorobenzene 8010 2.0 ND ug/Kg Chloroethane 8010 2.0 ND ug/Kg 2-Chloroethylvinyl ether 8010 5.0 ND ug/Kg Chloroform 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg 1,2-Dichlorobenzene 8010 2.0 ND ug/Kg 1,4-Dichlorobenzene 8010 2.0 ND ug/Kg 1,4-Dichlorobenzene 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethene 8010 2.0 ND ug/Kg trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg SURROGATE RESULTS					
Chloroethane 8010 2.0 ND ug/Kg 2-Chloroethylvinyl ether 8010 5.0 ND ug/Kg Chloroform 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg 1,2-Dichlorobenzene 8010 2.0 ND ug/Kg 1,3-Dichlorobenzene 8010 2.0 ND ug/Kg 1,4-Dichlorobenzene 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,2-Dichloroethane 8010 2.0 ND ug/Kg 1,2-Dichloroethane 8010 2.0 ND ug/Kg 1,2-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloroethene 8010 2.0 ND ug/Kg trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropane 8010 2.0 ND ug/Kg cis-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,2-Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,2-Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg SURROGATE RESULTS					
2-Chloroethylvinyl ether 8010 5.0 ND ug/Kg Chloroform 8010 2.0 ND ug/Kg Chloroform 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg Dibromochloromethane 8010 2.0 ND ug/Kg 1,2-Dichlorobenzene 8010 2.0 ND ug/Kg 1,3-Dichlorobenzene 8010 2.0 ND ug/Kg 1,4-Dichlorobenzene 8010 2.0 ND ug/Kg 1,4-Dichlorobenzene 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethene 8010 2.0 ND ug/Kg trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg cis-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg SurrogATE RESULTS	Chlorobenzene				
Chloroform 8010 2.0 ND ug/Kg Chloromethane 8010 2.0 ND ug/Kg Dibromochloromethane 8010 2.0 ND ug/Kg 1,2-Dichlorobenzene 8010 2.0 ND ug/Kg 1,3-Dichlorobenzene 8010 2.0 ND ug/Kg 1,4-Dichlorobenzene 8010 2.0 ND ug/Kg 1,4-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethene 8010 2.0 ND ug/Kg 1,1-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloropropane 8010 2.0 ND ug/Kg 1,2-Dichloropropane 8010 2.0 ND ug/Kg 1,2-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg					
Chloromethane 8010 2.0 ND ug/kg Dibromochloromethane 8010 2.0 ND ug/kg 1,2-Dichlorobenzene 8010 2.0 ND ug/kg 1,3-Dichlorobenzene 8010 2.0 ND ug/kg 1,4-Dichlorobenzene 8010 2.0 ND ug/kg 1,1-Dichloromethane 8010 2.0 ND ug/kg 1,2-Dichloroethane 8010 2.0 ND ug/kg 1,1-Dichloroethane 8010 2.0 ND ug/kg 1,2-Dichloroethene 8010 2.0 ND ug/kg 1,2-Dichloropropane 8010 2.0 ND ug/kg 1,2-Dichloropropene 8010 2.0 ND ug/kg cis-1,3-Dichloropropene 8010 2.0 ND ug/kg Methylene chloride 8010 2.0 ND ug/kg 1,1,2-Trichloroethane 8010 2.0 ND ug/kg 1,1,2-Trichloroethane <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
Dibromochloromethane 8010 2.0 ND ug/kg 1,2-Dichlorobenzene 8010 2.0 ND ug/kg 1,3-Dichlorobenzene 8010 2.0 ND ug/kg 1,4-Dichlorobenzene 8010 2.0 ND ug/kg Dichlorodifluoromethane 8010 2.0 ND ug/kg 1,1-Dichloroethane 8010 2.0 ND ug/kg 1,2-Dichloroethane 8010 2.0 ND ug/kg 1,2-Dichloroethane 8010 2.0 ND ug/kg 1,2-Dichloropropane 8010 2.0 ND ug/kg cis-1,3-Dichloropropene 8010 2.0 ND ug/kg trans-1,3-Dichloropropene 8010 2.0 ND ug/kg Methylene chloride 8010 50 ND ug/kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/kg 1,1,1-Trichloroethane 8010 2.0 ND ug/kg 1,1,2-Trichloroet	Chloroform				
1,2-Dichlorobenzene 8010 2.0 ND ug/kg 1,3-Dichlorobenzene 8010 2.0 ND ug/kg 1,4-Dichlorobenzene 8010 2.0 ND ug/kg Dichlorodifluoromethane 8010 2.0 ND ug/kg 1,1-Dichloroethane 8010 2.0 ND ug/kg 1,2-Dichloroethane 8010 2.0 ND ug/kg 1,2-Dichloroethene 8010 2.0 ND ug/kg trans-1,2-Dichloroethene 8010 2.0 ND ug/kg cis-1,3-Dichloropropene 8010 2.0 ND ug/kg trans-1,3-Dichloropropene 8010 2.0 ND ug/kg Methylene chloride 8010 2.0 ND ug/kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/kg 1,1,1-Trichloroethane 8010 2.0 ND ug/kg 1,1,2-Trichloroethane 8010 2.0 ND ug/kg Trichloroethene 8010 2.0 ND ug/kg Trichloroethen	Chloromethane				
1,3-Dichlorobenzene 8010 2.0 ND ug/kg 1,4-Dichlorobenzene 8010 2.0 ND ug/kg Dichlorodifluoromethane 8010 2.0 ND ug/kg 1,1-Dichloroethane 8010 2.0 ND ug/kg 1,2-Dichloroethene 8010 2.0 ND ug/kg 1,2-Dichloroethene 8010 2.0 ND ug/kg 1,2-Dichloropropane 8010 2.0 ND ug/kg cis-1,3-Dichloropropene 8010 2.0 ND ug/kg trans-1,3-Dichloropropene 8010 2.0 ND ug/kg Methylene chloride 8010 2.0 ND ug/kg 1,1,2-Tetrachloroethane 8010 2.0 ND ug/kg 1,1,1-Trichloroethane 8010 2.0 ND ug/kg 1,1,2-Trichloroethane 8010 2.0 ND ug/kg Trichloroethene 8010 2.0 ND ug/kg Trichlorofluoromethane 8010 2.0 ND ug/kg Vinyl chloride <td>Dibromochloromethane</td> <td>8010</td> <td></td> <td>= ***</td> <td></td>	Dibromochloromethane	8010		= ***	
1,4-Dichlorobenzene 8010 2.0 ND ug/kg Dichlorodifluoromethane 8010 2.0 ND ug/kg 1,1-Dichloroethane 8010 2.0 ND ug/kg 1,2-Dichloroethane 8010 2.0 ND ug/kg trans-1,2-Dichloroethane 8010 2.0 ND ug/kg trans-1,3-Dichloropropane 8010 2.0 ND ug/kg cis-1,3-Dichloropropene 8010 2.0 ND ug/kg trans-1,3-Dichloropropene 8010 2.0 ND ug/kg Methylene chloride 8010 50 ND ug/kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/kg Tetrachloroethane 8010 2.0 ND ug/kg Trichloroethane 8010 2.0 ND ug/kg Trichloroethane 8010 2.0 ND ug/kg Trichlorofluoromethane 8010 2.0 ND ug/kg Vinyl chloride 8010 2.0 ND ug/kg SURROGATE RESULTS <td>1,2-Dichlorobenzene</td> <td>8010</td> <td>2.0</td> <td>ND</td> <td></td>	1,2-Dichlorobenzene	8010	2.0	ND	
Dichlorodifluoromethane 8010 2.0 ND ug/Kg 1,1-Dichloroethane 8010 2.0 ND ug/Kg 1,2-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethene 8010 2.0 ND ug/Kg trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloropropane 8010 2.0 ND ug/Kg cis-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Methylene chloride 8010 50 ND ug/Kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethane 8010 2.0 ND ug/Kg Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg Surrogate Results	1,3-Dichlorobenzene	8010	2.0	ND	ug/Kg
1,1-Dichloroethane 8010 2.0 ND ug/kg 1,2-Dichloroethane 8010 2.0 ND ug/kg 1,1-Dichloroethane 8010 2.0 ND ug/kg trans-1,2-Dichloroethane 8010 2.0 ND ug/kg trans-1,3-Dichloropropene 8010 2.0 ND ug/kg trans-1,3-Dichloropropene 8010 2.0 ND ug/kg Methylene chloride 8010 50 ND ug/kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/kg Tetrachloroethane 8010 2.0 ND ug/kg 1,1,1-Trichloroethane 8010 2.0 ND ug/kg Trichloroethane 8010 2.0 ND ug/kg Trichlorofluoromethane 8010 2.0 ND ug/kg Vinyl chloride 8010 2.0 ND ug/kg SURROGATE RESULTS	1,4-Dichlorobenzene	8010	2.0	ND	ug/Kg
1,2-Dichloroethane 8010 2.0 ND ug/Kg 1,1-Dichloroethene 8010 2.0 ND ug/Kg trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloropropane 8010 2.0 ND ug/Kg cis-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Methylene chloride 8010 50 ND ug/Kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS	Dichlorodifluoromethane	8010	2.0	ND	ug/Kg
1,1-Dichloroethene 8010 2.0 ND ug/Kg trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloropropane 8010 2.0 ND ug/Kg cis-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Methylene chloride 8010 50 ND ug/Kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS	1,1-Dichloroethane	8010	2.0	ND	ug/Kg
1,1-Dichloroethene 8010 2.0 ND ug/Kg trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloropropane 8010 2.0 ND ug/Kg cis-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Methylene chloride 8010 50 ND ug/Kg 1,1,2-Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS	1,2-Dichloroethane	8010	2.0	ND	ug/Kg
trans-1,2-Dichloroethene 8010 2.0 ND ug/Kg 1,2-Dichloropropane 8010 2.0 ND ug/Kg cis-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Methylene chloride 8010 50 ND ug/Kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS		8010	2.0	ND	ug/Kg
1,2-Dichloropropane 8010 2.0 ND ug/Kg cis-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Methylene chloride 8010 50 ND ug/Kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/Kg Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS		8010	2.0	ND	ug/Kg
cis-1,3-Dichloropropene 8010 2.0 ND ug/Kg trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Methylene chloride 8010 50 ND ug/Kg 1,1,2-Tetrachloroethane 8010 2.0 ND ug/Kg Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS		8010	2.0	ND	ug/Kg
trans-1,3-Dichloropropene 8010 2.0 ND ug/Kg Methylene chloride 8010 50 ND ug/Kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/Kg Tetrachloroethane 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethane 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS		8010	2.0	ND	ug/Kg
Methylene chloride 8010 50 ND ug/kg 1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/kg Tetrachloroethene 8010 2.0 ND ug/kg 1,1,1-Trichloroethane 8010 2.0 ND ug/kg 1,1,2-Trichloroethane 8010 2.0 ND ug/kg Trichloroethene 8010 2.0 ND ug/kg Trichlorofluoromethane 8010 2.0 ND ug/kg Vinyl chloride 8010 2.0 ND ug/kg SURROGATE RESULTS		8010	2.0	ND	ug/Kg
1,1,2,2-Tetrachloroethane 8010 2.0 ND ug/Kg Tetrachloroethene 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS		8010	50	ND	ug/Kg
Tetrachloroethene 8010 2.0 ND ug/Kg 1,1,1-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS			2.0	ND	
1,1,1-Trichloroethane 8010 2.0 ND ug/Kg 1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS			2.0	ND	
1,1,2-Trichloroethane 8010 2.0 ND ug/Kg Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS				ND	
Trichloroethene 8010 2.0 ND ug/Kg Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS	• •			ND	
Trichlorofluoromethane 8010 2.0 ND ug/Kg Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS	• •				
Vinyl chloride 8010 2.0 ND ug/Kg SURROGATE RESULTS					
SURROGATE RESULTS					
		0010			31 3
T'ADTTTAATAMATIA				97	% Rec.
	•				% Rec.



Client Acct: 70700 Client Name: Toxic Technology Services

Date: 12/30/1992

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® NET Job No: 92.49816

Ref: 19984 Meekland Ave.

SAMPLE DESCRIPTION: MW-12-30-6

Date Taken: 12/14/1992

Time Taken:

LAB Job No: (-147309)

·		Reportin	ıg	
Parameter	Method	Limit	Results	Units
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED			12-16-92	
DILUTION FACTOR*			10	
as Gasoline	5030	1	29	mg/Kg
METHOD 8020 (GC, Solid)				
DATE ANALYZED			12-16-92	
DILUTION FACTOR*			10	
Benzene	8020	2.5	78	ug/Kg
Ethylbenzene	8020	2.5	100	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	160	ug/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		94	% Rec.
METHOD 3550 (GC,FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			12-18-92	
DATE ANALYZED			12-18-92	
as Diesel	3550	1	11**	mg/Kg
as Motor Oil	3550	10	ND	mg/Kg

^{**} The positive result for Petroleum Hydrocarbons as Diesel appears to be due to the presence of lighter hydrocarbon rather than Diesel.



Client Acct: 70700 Client Name: Toxic Technology Services

Date: 12/30/1992

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® NET Job No: 92.49816

Ref: 19984 Meekland Ave.

SAMPLE DESCRIPTION: MW-12-30-6 Date Taken: 12/14/1992

Time Taken: LAB Job No: (-147309)

•	•	Reportin	ıg	
Parameter	Method	Limit	Results	Units
METHOD 8010 (GC, Solid)				
DATE ANALYZED			12-23-92	
DILUTION FACTOR*			1	
Bromodichloromethane	8010	2.0	ND	ug/Kg
Bromoform	8010	2.0	ND	ug/Kg
Bromomethane	8010	2.0	ND	ug/Kg
Carbon tetrachloride	8010	2.0	ND	ug/Kg
Chlorobenzene	8010	2.0	ND	ug/Kg
Chloroethane	8010	2.0	ND	ug/Kg
2-Chloroethylvinyl ether	8010	5.0	ИD	ug/Kg
Chloroform	8010	2.0	ND	ug/Kg
Chloromethane	8010	2.0	ND	ug/Kg
Dibromochloromethane	8010	2.0	ND	ug/Kg
1,2-Dichlorobenzene	8010	2.0	ND	ug/Kg
1,3-Dichlorobenzene	8010	2.0	ND	ug/Kg
1,4-Dichlorobenzene	8010	2.0	ND	ug/Kg
Dichlorodifluoromethane	8010	2.0	ND	ug/Kg
1,1-Dichloroethane	8010	2.0	ND	ug/Kg
1,2-Dichloroethane	8010	2.0	ND	ug/Kg
1,1-Dichloroethene	8010	2.0	ND	ug/Kg
trans-1,2-Dichloroethene	8010	2.0	ND	ug/Kg
1,2-Dichloropropane	8010	2.0	ND	ug/Kg
cis-1,3-Dichloropropene	8010	2.0	ND	ug/Kg
trans-1,3-Dichloropropene	8010	2.0	ИD	ug/Kg
Methylene chloride	8010	50	ND	ug/Kg
1,1,2,2-Tetrachloroethane	8010	2.0	ND	ug/Kg
Tetrachloroethene	8010	2.0	ND	ug/Kg
1,1,1-Trichloroethane	8010	2.0	ND	ug/Kg
1,1,2-Trichloroethane	8010	2.0	ND	ug/Kg
Trichloroethene	8010	2.0	ND	ug/Kg
Trichlorofluoromethane	8010	2.0	ИD	ug/Kg
Vinyl chloride	8010	2.0	ND	ug/Kg
SURROGATE RESULTS				
1,4-Difluorobenzene			112	% Rec
Bromochloromethane			66	% Rec



Client Acct: 70700 Client Name: Toxic Technology Services ® NET Job No: 92.49816

Date: 12/30/1992

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Ref: 19984 Meekland Ave.

SAMPLE DESCRIPTION: MW-12-40-8

Date Taken: 12/14/1992

Time Taken:

LAB Job No: (-147310)

		Reportin	ıg	
Parameter	Method	Limit	Results	Units
TPH (Gas/BTXE, Solid)				
METHOD 5030 (GC, FID)			~-	
DATE ANALYZED			12-16-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC, Solid)				<u> </u>
DATE ANALYZED			12-16-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	ИD	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		98	% Rec.
METHOD 3550 (GC,FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			12-18-92	
DATE ANALYZED			12-18-92	
as Diesel	3550	1	ND	mg/Kg
as Motor Oil	3550	10	ND	mg/Kg



Client Acct: 70700 Client Name: Toxic Technology Services

Date: 12/30/1992

Page: 7

NET Job No: 92.49816

Ref: 19984 Meekland Ave.

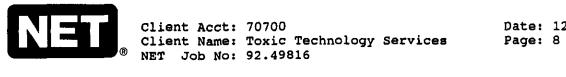
SAMPLE DESCRIPTION: MW-12-40-8

Date Taken: 12/14/1992

Time Taken:

LAB Job No: (-147310)

LAB Job No: (-147310	•	Reportin	ıg	
Parameter	<u>Method</u>	Limit	Results	Units
METHOD 8010 (GC, Solid)				
DATE ANALYZED			12-23-92	
DILUTION FACTOR*			1	
Bromodichloromethane	8010	2.0	ND	ug/Kg
Bromoform	8010	2.0	ND	ug/Kg
Bromomethane	8010	2.0	ND	ug/Kg
Carbon tetrachloride	8010	2.0	ND	ug/Kg
Chlorobenzene	8010	2.0	ND	ug/Kg
Chloroethane	8010	2.0	ND	ug/Kg
2-Chloroethylvinyl ether	8010	5.0	ND	ug/Kg
Chloroform	8010	2.0	ND	ug/Kg
Chloromethane	8010	2.0	ИД	ug/Kg
Dibromochloromethane	8010	2.0	ND	ug/Kg
1,2-Dichlorobenzene	8010	2.0	ND	ug/Kg
1,3-Dichlorobenzene	8010	2.0	ND	ug/Kg
1,4-Dichlorobenzene	8010	2.0	ND	ug/Kg
Dichlorodifluoromethane	8010	2.0	ND	ug/Kg
1,1-Dichloroethane	8010	2.0	ИD	ug/Kg
1,2-Dichloroethane	8010	2.0	ND	ug/Kg
1,1-Dichloroethene	8010	2.0	ND	ug/Kg
trans-1,2-Dichloroethene	8010	2.0	ND	ug/Kg
1,2-Dichloropropane	8010	2.0	ND	ug/Kg
cis-1,3-Dichloropropene	8010	2.0	ND	ug/Kg
trans-1,3-Dichloropropene	8010	2.0	מא	ug/Kg
Methylene chloride	8010	50	ND	ug/Kg
1,1,2,2-Tetrachloroethane	8010	2.0	ND	ug/Kg
Tetrachloroethene	8010	2.0	ND	ug/Kg
1,1,1-Trichloroethane	8010	2.0	ND	ug/Kg
1,1,2-Trichloroethane	8010	2.0	ND	ug/Kg
Trichloroethene	8010	2.0	ND	ug/Kg
Trichlorofluoromethane.	8010	2.0	'ND	ug/Kg
Vinyl chloride	8010	2.0	ND	ug/Kg
SURROGATE RESULTS				_
1,4-Difluorobenzene			95	% Rec.
Bromochloromethane			41	% Rec.



Date: 12/30/1992

Ref: 19984 Meekland Ave.

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel	1	mg/Kg	107	ND	92	98	6.3
Gasoline Benzene Toluene	1 2.5 2.5	mg/Kg ug/Kg ug/Kg	121 84 94	ND ND ND	93 97 99	87 89 94	7.3 8.6 4.7

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike %	Duplicate Spike % Recovery	ŘPD
Benzene	2.5	ug/Kg	87	ND	97	99	2.0
Toluene	2.5	ug/Kg	89	ND	96	91	5.3
1,1-Dichloroethene	2.0	ug/Kg	100	ND	108	135	22
Trichloroethene	2.0	ug/Kg	117	ND	101	112	10
Chlorobenzene	2.0	ug/Kg	86	ND	90	92	2.2

COMMENT: Blank Results were ND on other analytes tested.



KEY TO ABBREVIATIONS and METHOD REFERENCES

Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.

Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample,

wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed

reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.



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NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Lisa A. Polos Toxic Technology Services PO Box 515 Rodeo, CA 94572 Date: 01/13/1993 NET Client Acct. No: 70700 NET Pacific Job No: 92.49931 Received: 12/22/1992

Client Reference Information

Durham

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

aucies,

Enclosure(s)



Client Acct: 70700 Client Name: Toxic Technology Services NET Job No: 92.49931

Date: 01/13/1993

Page: 2

Ref: Durham

SAMPLE DESCRIPTION: MW-12

Date Taken: 12/21/1992 Time Taken: 10:30 LAB Job No: (-147847)

LAB JOD NO: (-14/84	,,,	Reporting						
Parameter	Method	Limit	Results	Units				
TPH (Gas/BTXE,Liquid)								
METHOD 5030 (GC, FID)								
DATE ANALYZED			12-31-92					
DILUTION FACTOR*			1					
as Gasoline	5030	0.05	2.8	mg/L				
METHOD 8020 (GC, Liquid)				2,				
DATE ANALYZED			12-31-92					
DILUTION FACTOR*			1					
Benzene	8020	0.5	14	ug/L				
Ethylbenzene	8020	0.5	ND	ug/L				
Toluene	8020	0.5	ND	ug/L				
Xylenes (Total)	8020	0.5	29	ug/L				
SURROGATE RESULTS				-7 '				
Bromofluorobenzene	5030		78	% Rec.				
-								
METHOD 3510 (GC,FID)								
DILUTION FACTOR*			1					
DATE EXTRACTED			12-23-92					
DATE ANALYZED			12-28-92					
as Diesel	3510	0.05	1.7**	mg/L				

^{**} The positive result for Petroleum Hydrocarbons as Diesel appears to be due to the presence of lighter hydrocarbon rather than Diesel.



Client Acct: 70700 Client Name: Toxic Technology Services NET Job No: 92.49931

Date: 01/13/1993 Page: 3

Ref: Durham

SAMPLE DESCRIPTION: MW-12
Date Taken: 12/21/1992
Time Taken: 10:30
LAB Job No: (-147847)

LAB JOD NO: (-14/84/	,	Reportin	ıa	
Parameter	Method	Limit	Results	Units
METHOD 601 (GC, Liquid)				
DATE ANALYZED			12-31-92	
DILUTION FACTOR*			1	
Bromodichloromethane	601	0.4	ND	ug/L
Bromoform	601	0.4	ND	ug/L
Bromomethane	601	0.4	ND	ug/L
Carbon tetrachloride	601	0.4	ND	ug/L
Chlorobenzene	601	0.4	ND	ug/L
Chloroethane	601	0.4	ND	ug/L
2-Chloroethylvinyl ether	601	1.0	ND	ug/L
Chloroform	601	0.4	ND	ug/L
Chloromethane	601	0.4	ND	ug/L
Dibromochloromethane	601	0.4	ND	ug/L
1,2-Dichlorobenzene	601	0.4	ИD	ug/L
1,3-Dichlorobenzene	601	0.4	ND	ug/L
1,4-Dichlorobenzene	601	0.4	ND	ug/L
Dichlorodifluoromethane	601	0.4	ND	ug/L
1,1-Dichloroethane	601	0.4	ND	ug/L
1,2-Dichloroethane	601	0.4	ND	ug/L
1,1-Dichloroethene	601	0.4	ND	ug/L
trans-1,2-Dichloroethene	601	0.4	ND	ug/L
1,2-Dichloropropane	601	0.4	ND	ug/L
cis-1,3-Dichloropropene	601	0.4	ND	ug/L
trans-1,3-Dichloropropene	601	0.4	ND	ug/L
Methylene chloride	601	10	ND	ug/L
1,1,2,2-Tetrachloroethane	601	0.4	ND	ug/L
Tetrachloroethene	601	0.4	ND	ug/L
1,1,1-Trichloroethane	601	0.4	ND	ug/L
1,1,2-Trichloroethane	601	0.4	ND	ug/L
Trichloroethene	601	0.4	ND	ug/L
Trichlorofluoromethane	601	0.4	ND	ug/L
Vinyl chloride	601	0.4	ND	ug/L
SURROGATE RESULTS		•		•,
1,4-Difluorobenzene	601		78	% Rec.
-,	- - -		76	% Rec.



Client Acct: 70700 Client Name: Toxic Technology Services

NET Job No: 92.49931

Ref: Durham

QUALITY CONTROL DATA

Date: 01/13/1993

Page: 4

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel Motor Oil	0.05	mg/L mg/L	107 98	ND**	81 N/A	79 N/A	1.6 N/A
Gasoline Benzene Toluene	0.05 0.5 0.5	mg/L ug/L ug/L	100 106 106	ND ND ND	108 110 112	109 108 110	<1 3.0 1.0

COMMENT: Blank Results were ND on other analytes tested.

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Benzene	0.5	—— ug/L	93	ND	96	83	15
Toluene	0.5	ug/L	94	ND	99	85	15
1,1-Dichloroethene	0.4	ug/L	67	ND	68	58	16
Trichloroethene	0.4	ug/L	83	ND	84	72	15
Chlorobenzene	0.4	ug/L	85	ND	85	73	15

COMMENT: Blank Results were ND on other analytes tested.

^{**} Blank contained interference at 1.7 mg/L when quantitated versus diesel fuel. The interference present does not match diesel or any other fuel pattern.



KEY TO ABBREVIATIONS and METHOD REFERENCES

Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.

: Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

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mean : Average; sum of measurements divided by number of measurements.

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wet-weight basis (parts per million).

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N/A : Not applicable.

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NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

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ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

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umhos/cm : Micromhos per centimeter.

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Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

 \underline{SM} : see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.



CHAIN OF CUSTODY RECORD PHONE (5/5) 277-1140 1408 SANTA ROSA DIVISION, 435 TESCONI CIRCLE, SANTA ROSA, CA 95401 PROJECT NAME/LOCATION Bricham (707) 526-7200 PHONE (707) 526-9623 FAX PROJECT NUMBER PROJECT MANAGER _______ **ANALYSES** TURNAROUND TIME L DAY (S) SIGNATURE (PRINT NAME) GRAB COMP SAMPLE ID/DESCRIPTION MATRIX DATE TIME COMMENTS for 601 w/neadspace 1 409 A.L. 12/22/9 INVOICE TO: RESULTS TO: RELINQUISHED BY RECEIVED BY DATE/JIME DATE/TIME RECEIVED FOR LABORATORY BY DATE/TIME RECEIVED BY RELINQUISHED BY DATE/TIME 12/22/92 0800 Lope. REMARKS: METHOD OF SHIPMENT



APPENDIX D

	Blows/ Sample U. Ft. No.		uscs	DESCRIPTION	WELL CONST.	
0	T	-			6" asphalt	
2				ML	Silty clay, red-brown to black, slightly damp, very stiff, slight plasticity, no product odor.	81188888118
4	7	Ì				
6	4	17	s-5		·	
8	1					
10	1		X		•	
12			A			
14.	1	32	S-13		Green-brown to dark brown, slight odor.	
16		25	S-15		Light green-brown to red-brown, dry, slight to moderate product odor.	
18	1		11			
20		15	S-20	СН	Clay, dark brown, moist, stiff, high plasticity, moderate to strong product odor.	
22.	4	}	П	1	<u>.</u>	E 3
24				▼	·	
26		39	S-2:		Light green-brown, wet, hard, moderate product odor.	
28						
30					Clay continues downward, continued on next plate.	



LOG OF BORING B1/MW-1

PLATE

Harbert Transportation Hayward, California

1-4

30 _	Blows/ Ft.	owe/ Sample USCS No.		Sample USCS DESCRIPTION				
32 -	18	s-30	СН	Clay, light green-brown, wet, hard, high plasticity, moderate product odor. Dark green-brown, very stiff.				
34 _								
36 -	38	S-35		Red-brown, hard, slight product odor.	11111			
38 _					CAVED			
40_		X			Ö			
42_				Total depth = 41.5 feet.				
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LOG OF BORING B-1/MW-1

PLATE

Harbert Transportation Hayward, California

P-5