

July 6, 1995

Ms. Susan Hugo Alameda County Health Care Services Agency Environmental Protection Division 1131 Harbor Bay Parkway #250 Alameda, CA. 94502-6577

Re: Groundwater Report

Dear Ms. Hugo,

Enclosed is the sampling report of the monitoring well located at 6050 Hollis Street in Emeryville for your review.

We will continue to monitor this well on a quarterly basis for the next year and send you the reports per your recommendations.

If you have any questions, please contact us.

Sincerely,

Debra S. Baker Property Manager

Enclosure

1/1.11 L-700 SG

# RASELINE

# ENVIRONMENTAL CONSULTING

5 July 1995 S9105-A0

Mr. Francis Collins Banta Collins 6000 Hollis Street Emeryville, CA 94608

Subject: Groundwater Monitoring Report, 6050 Hollis Street, Emeryville, California -

May 1995

Dear Mr. Collins:

In accordance with the agreement with Alameda County (summarized in a letter from BASELINE to Ms. Susan Hugo of Alameda County Health Care Services Agency, dated 28 February 1995) we are conducting one year of quarterly monitoring. This report constitutes the second of four quarterly sampling reports.

# Groundwater Sampling

Groundwater samples were collected from wells MW-H1, MW-H2, and MW-H3 on 24 May 1995 by a BASELINE geologist (Figure 1). The water levels were measured in each well using a dual interface probe prior to purging; the potential presence of floating product was also checked; no floating product was identified in any of the wells. The probe was decontaminated between wells by washing with a trisodium phosphate solution and rinsing with deionized water. A minimum of three well volumes were slowly removed from each well using a double diaphragm pump and new disposable tubing. The wells were purged until the temperature, pH, and electrical conductivity of the groundwater had stabilized. Water levels were allowed to recharge to about 90 percent of the original levels before the samples were collected. The purged water and decontamination water were placed into a 55-gallon sealed and labeled drum on-site for temporary storage. Groundwater sampling forms are included as Attachment A.

New disposable PVC bailers were used to collect groundwater samples from the monitoring wells. The portions of the samples that were to be analyzed for TPH as gasoline and BTEX were decanted into VOA vials from the bottom of the bailers using volatile organic compound (VOC) attachments to minimize turbulence and volatilization. The filled vials were checked to ensure that bubbles were not trapped in the bottles. The portion of the sample that was to be analyzed for TPH as diesel and kerosene was decanted directly into amber glass from the bottom of the bailer without the use of the VOC attachment. The sample bottles were labeled, placed in a cooler with blue ice, 11 13 L-11 36 and transported for analysis to Curtis & Tompkins, a California-certified laboratory.

# BASELINE

Mr. Francis Collins 5 July 1995 Page 2

### **Findings**

The samples collected from wells MW-H1, MW-H2, and MW-H3 had a clear appearance. Groundwater levels in wells MW-H1, MW-H2, and MW-H3 were relatively shallow compared to previous groundwater levels recorded to date (Table 1). The groundwater flow direction on 24 May 1995 was determined to be in the N25W direction at a gradient of 0.039 foot/foot. This is similar to the direction measured during the March 1995 sampling event. A summary of groundwater flow directions and magnitude during previous and current sampling events are summarized in Table 2. TPH as gasoline or diesel was identified in the samples from wells MW-H1 and MW-H2 at concentrations above the reporting limit. Benzene, ethylbenzene, and total xylenes were identified in the sample from MW-H1 above the reporting limit.

A summary of analytical results from previous and current sampling events is summarized in Table 3, and the laboratory results are included in Attachment A.

The third 1995 monitoring event will occur in August 1995. Should you have any questions or need additional information, please do not hesitate to contact us at your convenience.

Sincerely,

Yane Nordhav

Principal

Reg. Geologist No. 4009

1110 Doudlas

YN:WKS:cr Attachments Bill Scott Geologist

Figure 1

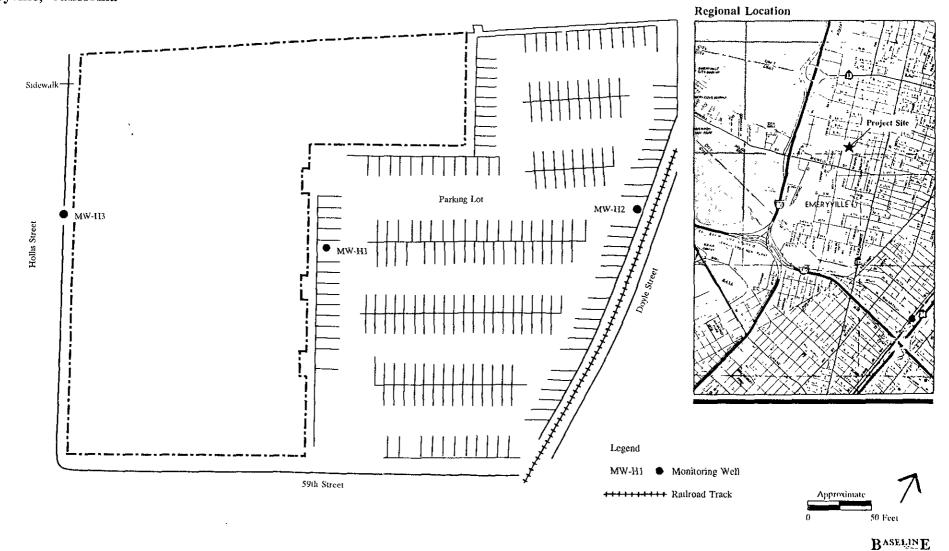


TABLE I

GROUNDWATER LEVEL MEASUREMENTS
6050 Hollis Street, Emeryville

Well	Date	Depth to Water from TOC (feet)	Elevation of TOC (feet msl)	Groundwater Elevation (feet msl)
MW-HI	02/08/89 05/01/89	4.85 5.10	18.90	14.05 13.80
	09/13/89 12/04/89	5.80 5.34		13.10 13.56
	03/26/90 07/24/90 11/16/90	6.42 5.93 5.80		12.48 12.97 13.10
	03/15/91 09/11/91 09/24/91	4.30 5.71 5.80		14.60 13.19 13.10
	05/24/94	3.98		14.92
	03/08/95 05/24/95	3.71 3.98		15.19 14.92
MW-H2	09/11/91 09/24/91	6.84 6.86	21.48	14.64 14.62
	05/24/94	6.30		15.18
	03/08/95 05/24/95	5.45 6.30		16.03 15.18
MW-H3	09/11/91 09/24/91	4.84 4.81	16.95	12.11 12.14
	05/24/94	3.88		13.07
	03/08/95 05/24/95	3.69 3.88		13.26 13.07

Notes: msl = mean sea level.

Well locations are shown in Figure 1.

TABLE 2

GROUNDWATER FLOW DIRECTION AND MAGNITUDE 6050 Hollis Street, Emeryville

Date	Groundwater Flow Direction	Magnitude (feet/feet)
9/11/91	S30W	0.0068
9/24/91	S13W	0.0099
5/24/94	N20W	0.037
3/08/95	N22W	0.002
5/24/95	N25W	0.039

Note:

Groundwater flow direction and magnitude were determined graphically by threepoint method using wells MW-H1, MW-H2, and MW-H3.

#### TABLE 3

# SUMMARY OF ANALYTICAL RESULTS, GROUNDWATER 6050 Hollis Street, Emeryville

(mg/L)

Well	Date	TPH as Gasoline <sup>1</sup>	TPH as Diesel <sup>2</sup>	TPH as Kerosene <sup>2</sup>	Benzene <sup>3</sup>	Toluene <sup>3</sup>	Ethylbenzene'	Xylenes
MW-H1	02/10/89	< 0.05	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001
	05/01/89	< 0.05	<0.5	< 0.5	< 0.001	< 0.001	< 0.001	< 0.001
	09/13/89	1.3	< 0.5	< 0.5	0.061	< 0.0005	0.005	0.002
	12/04/89	0.41/0.37	<0.5/<0.5	<0.5/<0.5	0.0072/0.011	0.0032/0.0024	0.0028/0.0014	0.0032/0.0013
	03/26/90	0.7	<0.5	<0.5	0.093	0.001	0.0017	< 0.001
	06/14/904	0.344	$0.082^{4}$	< 0.054	0.0164	<0.0014	<0.0014	< 0.0014
	07/24/90	0.14	<0.5	<0.5	0.006	< 0.0005	<0.0005	0.0009
	11/16/90	1.1	0.55	<0.05	0.016	0.0009	0.0018	0.0015
	03/15/91	0.98/1.0	<0.05/<0.05	<0.05/<0.05	0.02/0.017	0.0006/<0.0005	0.0022/0.0019	0.0025/0.0022
	09/11/91	1.0	0.39	<0.05	0.015	0.0056	0.0027	0.0029
	05/24/94	3.4	0.28	6	0.021	< 0.0005	0.010	0.0067
	03/08/95	3.8	0.345	6	0.0087	<0.0005	0.013	0.006
	05/24/95	3.4	0.28	6	0.021	< 0.0005	0.010	0.0067
MW-H2	09/11/91	<0.05	<0.05	<0.05	<0.0005	<0.0005	< 0.0005	< 0.0005
	05/24/94	<0.05	<0.05	<0.05	<0.0005	<0.0005	< 0.0005	<0.0005
	03/08/95	< 0.05	0.085	<0.05	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	05/24/95	< 0.05	<0.05	<0.05	< 0.0005	<0.0005	<0.0005	<0.0005
MW-H3	09/11/91	<0.05/<0.05	0.12/0.22	<0.05/<0.05	<0.0005/<0.0005	<0.0005/<0.0005	<0.0005/<0.0005	<0.0005/<0.0005
	05/24/94	0.1105	0.110	6	< 0.0005	< 0.0005	<0.0005	< 0.0005
	03/08/95	0.085	0.110 <sup>5</sup>	6	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	05/24/95	0.1105	0.110	6	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Field	06/14/904	<0.05	0.0624	<0.05	<0.001	<0.001	<0.001	<0.001
Blanks	07/24/90	< 0.05	< 0.5	< 0.5	< 0.0005	< 0.0005	< 0.0005	< 0.005
	11/1 <i>6/</i> 90	<0.05	< 0.05	< 0.05	< 0.0005	< 0.0005	< 0.0005	< 0.005

Notes:

Number(s) shown in bold are concentrations identified above detection limit(s). Well locations are shown in Figure 1.

Groundwater sampling forms and analytical results for the most recent sampling are in Attachment A.

xx/xx indicates duplicate samples

Analyzed by EPA Methods 5030/8020.

Analyzed by EPA Methods 5030/8015 Modified (some of the laboratory reports cite the California DHS Luß Manual).

Analyzed by EPA Methods 3510 or 3550/8015 Modified (some of the laboratory reports cite the California DHS Luft Manual).

The field blank for 6/14/90 sampling contained diesel at 0.062 mg/L, therefore all analytical results for MW-HI for that date may be erroneous.

<sup>5</sup> Laboratory report indicates that the chromatogram does not resemble gasoline standard.

Quantitated as diesel due to overlap of hydrocarbon ranges.

# ATTACHMENT A

GROUNDWATER SAMPLING FORMS AND LABORATORY REPORT

# **GROUNDWATER SAMPLING**

Project no.:		S9105-A0	Well no.:	MW-H1		Date: 5/24/95			
Project name:		Banta Collins	Depth of wel	1 from TOC (feet):	20				
Location:		6050 Hollis Street	Well diamete	er (inch):	2				
·-		Emeryville, CA	- Screened into	erval from TOC (feet):	6-20				
Recorded by:		WKS	TOC elevation	` '	18.90				
Weather:		Overcast	•	from TOC (feet):	3.98	Time: 8:50			
		Overcast	-	, ,					
Precip in past		••		from TOC (feet):	None	Time: 8:50			
5 days (inch):		None	Water level (	· •	14.92				
			Water level r	measurement device:	Dual interfac	ce probe			
VOLUME OF	WATER T	O BE REMOVED BEFOR	E SAMPLING	):	*				
		$(3.98 \text{ ft})] \times (0.083 \text{ ft})$	<del>_</del>		6 gallons in on	ie well volume			
	Well depth	Water level Well radiu	S		3 gallons in 5				
				1	total gallons removed				
CALIBRATIC	ON:								
AVEIDUVIIC	J17.		Temp		EC				
		<u>Time</u>	(°C)	<u>pH</u>	(µmho/cm	)			
Calibrati	on Standard:	8:00	20.1	7.00-10.01	1,000	~			
	fore Purging:		20.1	7.00-10.01	900				
A:	fter Purging:	10:50	19.5	6.99-	900				
FIELD MEAS	SUREMENT	rs:							
	_			Cumulative					
	Temp		EC	Gallons					
<u>Time</u>	(°C)	<u>pH</u>	(µmho/cm)	Removed	<u>Appearance</u>				
9:18	17.3	6.83	800	1	Very slightly	turbid, petroleum odor			
9:28	17.3	6.86	800	3	Clear	turoid, petroleum odor			
9:32	17.1	7.03	800	4	Clear				
9:48	17.4	6.86	800	7	Clear				
9:58	17.5	6.89	800	8	Clear				
10:08	17.5	6.89	800	10	Clear				
37 , 1 · · ·			, .						
		rior to sampling (feet):	4.4	7	<del></del>	Time: 12:16			
Appearance of Duplicate/blan	-	Clear N.A.				Time: 12:20 Time:			
Purge method:		Double diaphragm pump				1 IIIIC			
arge memou. Sampling equip		Disposable PVC bailer		VOC attachment:	N.A.				
Sampling equip		40-ml VOAs and 0.5-liter at	mher class	_ voc attachment:	iv.A.				
Sample contait Sample analysi		TEH-d, TEH-k, TVH-g, BT		Laboratora	Carrelia P. T	nulino I td			
-		TSP and water, DI water rin		_ Laboratory:	Curtis & Tompkins, Ltd. Drum MW-HW4				
, comammati	on memod.	151 and water, DI water nn	30	_Rinsate disposal:	Drum MW-H	1 W 4			

(S9150AGW.XLW-6/14/95)

# **GROUNDWATER SAMPLING**

Location: 605  EmeRecorded by: WK Weather: Ove Precip in past 5 days (inch): Nor  VOLUME OF WATER TO BI  [( 20 ft) - ( 6 Well depth W CALIBRATION:  Calibration Standard: Before Purging:	Emeryville, CA   Screened interval from TOC (feet):   4.5-20	Project no.:		S9105-A0	_ Well no.:	MW-H	i2	Date: 5/24/95
Recorded by: WK Weather: Ove Precip in past 5 days (inch): Nor  VOLUME OF WATER TO BI  [( 20 ft) - ( 6	Emeryville, CA   Screened interval from TOC (feet):   4.5-20   4.5-20     4.5-20     4.5-20     4.5-20     4.5-20     4.5-20   4.5-20     4.5-20     4.5-20     4.5-20     4.5-20     4.5-20   4.5-20     4.5-20   4.5-20     4.5-20	Project name:		Banta Collins	Depth of well	from TOC (feet):	20	
Recorded by: WK Weather: Ove Precip in past 5 days (inch): Nor  VOLUME OF WATER TO BI  [( 20 ft) - ( 6   Well depth W  CALIBRATION:  Calibration Standard: Before Purging:	Mater   Water   Wate	Location:		6050 Hollis Street	Well diameter	(inch):	2	
Weather: Over Precip in past 5 days (inch): Nor  VOLUME OF WATER TO BI  [( 20 ft) - ( 6 Well depth	Mater   Water   Wate			Emeryville, CA	Screened inter	rval from TOC (feet):		
Weather: Over Precip in past 5 days (inch): Nor  VOLUME OF WATER TO BI  [( 20 ft) - ( 6 Well depth	None   Product level from TOC (feet):   None   Time: 8:07	Recorded by:						
Precip in past  5 days (inch): Nor  VOLUME OF WATER TO BI  [( 20 ft) - ( 6 Well depth W  CALIBRATION:  Calibration Standard: Before Purging:	Product level from TOC (feet):   None   Time: 8:07	-		Overcast	<del></del>	•		Time: 8:07
VOLUME OF WATER TO BI  [( 20 ft) - ( 6 Well depth W  CALIBRATION:  Calibration Standard: Before Purging:	None   Water level (feet msl):   15.18				_	, ,		
VOLUME OF WATER TO BE  [( 20 ft) - ( 6  Well depth W  CALIBRATION:  Calibration Standard:  Before Purging:	Water level measurement device:   Dual interface probe			None		• •		
[( 20 ft) - ( 6 Well depth W  CALIBRATION:  Calibration Standard: Before Purging:	E OF WATER TO BE REMOVED BEFORE SAMPLING:  [( 20  ft) - ( 6.30  ft)] × ( 0.083  ft)² × 3.14 × 7.48 =	·			<del></del>	,		ce probe
[( 20 ft) - ( 6 Well depth W  CALIBRATION:  Calibration Standard: Before Purging:	[( 20 ft) - ( 6.30 ft)] × ( 0.083 ft)² × 3.14 × 7.48 = 2.2 gallons in one well volume  Well depth Water level Well radius 11.2 gallons in 5 well volumes  9 total gallons removed  **RATION:  Temp EC  Time (°C) pH (µmho/cm)  ibration Standard: 8:00 20.1 7.00-10.01 1,000  Before Purging: 8:10 20.1 7.00-10.01 900  After Purging: 10:50 19.5 6.99- 900  **MEASUREMENTS:	VOLUME OF	WATER TO	O BE REMOVED BEFOR	E SAMPLING:			
Well depth W  CALIBRATION:  Calibration Standard:  Before Purging:	Well depth   Water level   Well radius   11.2 gallons in 5 well volumes   9 total gallons removed						.2 gallons in o	ne well volume
Calibration Standard: Before Purging:	Temp   EC		Well depth	Water level Well radiu	is			
Calibration Standard: Before Purging:	Temp EC  Time (°C) pH (µmho/cm)  ibration Standard: 8:00 20.1 7.00-10.01 1,000  Before Purging: 8:10 20.1 7.00-10.01 900  After Purging: 10:50 19.5 6.99- 900							
Calibration Standard: Before Purging:	Temp EC  Time (°C) pH (µmho/cm)  ibration Standard: 8:00 20.1 7.00-10.01 1,000  Before Purging: 8:10 20.1 7.00-10.01 900  After Purging: 10:50 19.5 6.99- 900	CALIBRATIO	N:					
Before Purging:	ibration Standard:       8:00       20.1       7.00-10.01       1,000         Before Purging:       8:10       20.1       7.00-10.01       900         After Purging:       10:50       19.5       6.99-       900    MEASUREMENTS:	···	7 4 4 4		•		EC	
Before Purging:	Before Purging: 8:10 20.1 7.00-10.01 900 After Purging: 10:50 19.5 6.99- 900  MEASUREMENTS:	- *** .*	-· • •		(° C)		(µmho/cm	ı)
	After Purging: 10:50 19.5 6.99- 900  MEASUREMENTS:						•	
After Purging.	MEASUREMENTS:							
FIELD MEASUREMENTS:	Cumulative	FIELD MEAS	UREMENT	S:				
<b></b>						Cumulative		
Temp <u>Time</u> ( <u>° C)</u>	10 m	Tima	_	"U			4	
Time L VI	<u>(°C) pH (μmho/cm) Removed Appearance</u>	Lime	1-4	<u>þri</u>	(µmno/cm)	<u>Kemovea</u>	Appearance	
8-30 16.5		8:30	16.5	7.06	230	2	Clear with o	range precipitate and
0.50 10.5	16.5 7.06 230 2 Clear with orange precipitate and	2.25		< *A		-	rootlets in w	
	rootlets in well					3	Clear	
8:35 16.4	rootlets in well 5 16.4 6.59 220 3 Clear					4	Clear	
8:35 16.4 8:40 16.5	rootlets in well  5 16.4 6.59 220 3 Clear  16.5 6.65 220 4 Clear							
8:35 16.4 8:40 16.5 8:55 16.4	rootlets in well  5 16.4 6.59 220 3 Clear  16.5 6.65 220 4 Clear  5 16.4 6.73 220 7 Clear			0.09				
				-				
X' 10 10 1	165	8:30	10.3	7.06	230	2		
0.50 10.5		8:35	16.4	6.59	220	3		CH
	rootlets in well	8:40	16.5					
8:35 16.4	rootlets in well 5 16.4 6.59 220 3 Clear	8:55	16.4			7		
8:35 16.4 8:40 16.5	rootlets in well  5 16.4 6.59 220 3 Clear  16.5 6.65 220 4 Clear	9:00	16.6	6.69	220	8		
8:35 16.4 8:40 16.5 8:55 16.4	rootlets in well  5 16.4 6.59 220 3 Clear  16.5 6.65 220 4 Clear  5 16.4 6.73 220 7 Clear			0.00				
8:35 16.4 8:40 16.5 8:55 16.4 9:00 16.6	rootlets in well  5 16.4 6.59 220 3 Clear  16.5 6.65 220 4 Clear  5 16.4 6.73 220 7 Clear  0 16.6 6.69 220 8 Clear	7.03	10.0		440	7	Clear	
8:35 16.4 8:40 16.5 8:55 16.4	rootlets in well  5 16.4 6.59 220 3 Clear  0 16.5 6.65 220 4 Clear  5 16.4 6.73 220 7 Clear  0 16.6 6.69 220 8 Clear							
8:35 16.4 8:40 16.5 8:55 16.4 9:00 16.6	rootlets in well  5 16.4 6.59 220 3 Clear  16.5 6.65 220 4 Clear  5 16.4 6.73 220 7 Clear  0 16.6 6.69 220 8 Clear			• • •		6.35		Time: 12:00
8:35 16.4 8:40 16.5 8:55 16.4 9:00 16.6 9:05 16.6	rootlets in well    16.4		•					Time: 12:05
8:35 16.4 8:40 16.5 8:55 16.4 9:00 16.6 9:05 16.6 Water level after purging prior to Appearance of sample: Clea	rootlets in well  16.1 16.4 6.59 220 3 Clear  16.5 6.65 220 4 Clear  16.4 6.73 220 7 Clear  16.6 6.69 220 8 Clear  16.6 220 9 Clear  Time: 12:00  Time: 12:05	Duplicate/blanl	k number:	N.A.				Time:
8:35 16.4 8:40 16.5 8:55 16.4 9:00 16.6 9:05 16.6 Water level after purging prior to Appearance of sample: Clea	rootlets in well    16.4	Purge method:	•	Double diaphragm pump		<del></del>	<del></del>	
8:35 16.4 8:40 16.5 8:55 16.4 9:00 16.6 9:05 16.6  Water level after purging prior t Appearance of sample: Clea	rootlets in well    16.4	=	-			VOC attachment:	N A	
8:35 16.4 8:40 16.5 8:55 16.4 9:00 16.6 9:05 16.6  Water level after purging prior t Appearance of sample: Clea Duplicate/blank number: N.A Dou	rootlets in well    16.4				mher class	voc attachment:	N.A.	
8:35 16.4 8:40 16.5 8:55 16.4 9:00 16.6 9:05 16.6  Water level after purging prior to the second sample: Clean Duplicate/blank number: N.A. Purge method: Dout Dispussion of the second sample of the	rootlets in well    16.4	•	-			T -3.	<u> </u>	1
8:35 16.4 8:40 16.5 8:55 16.4 9:00 16.6 9:05 16.6  Water level after purging prior to the second sample: Clean Duplicate/blank number: N.A. Purge method: Douglicate/blank number: Douglicate/blank number: N.A. Sampling equipment: Disput Sample containers: 40-n	rootlets in well    16.4	Sampie analyse	•					mpkins, Ltd.
8:35	Time: 12:00   Time: 12:05							

(\$9150AGW.XLW-6/14/95)

# **GROUNDWATER SAMPLING**

Project no.:	S	9105-A0	Well no.:	MW-F	-13	Date: <u>5/24/95</u>
Project name:	В	anta Collins	Depth of wel	I from TOC (feet):	15	
Location:	60	050 Hollis Street	Well diamete	r (inch):	2	
	Е	neryville, CA	Screened inte	erval from TOC (feet)	: 3-15	
Recorded by: _	W	KS	TOC elevatio	- '	16.95	
Weather:	0	vercast	<del></del>	rom TOC (feet):	3.88	Time: 8:52
Precip in past			<del></del>	from TOC (feet):	None	Time: 8:52
5 days (inch):	N	one	Water level (	, ,	13.07	
- ` · · · ·	Water level measuremen				Dual interfac	ce probe
VOLUME OF	WATER TO	BE REMOVED BEFO				
		3.88 ft)] × ( 0.083			.8 gallons in on	a wall volume
'		Water level Well radi	-		0.0 gallons in 5	
	•				0.0 total gallons	
CALIBRATIO	Ni-				_ ~ ~	
VALIBRATIU	/11.		Temp		EC	
		<u>Time</u>	(° C)	<u>рН</u>	(umho/cm	)
Calibratio	C	8:00	20.1	7.00-10.01	1,000	•
Befo	ore Purging:	8:10	20.1	7.00-10.01	900	
Befo				7.00-10.01 6.99-	900 900	
Befo Af	ore Purging: fter Purging:	8:10	20.1			
Befo	ore Purging: fter Purging:	8:10	20.1	6.99-		
Befo Af	ore Purging: fter Purging:	8:10	20.1			
Befo Af	ore Purging: fter Purging: :UREMENTS:	8:10	20.1 19.5	6.99-  Cumulative		
Befo Af FIELD MEAS <u>Time</u>	ore Purging: fter Purging: UREMENTS: Temp (°C)	8:10 10:50 <u>pH</u>	20.1 19.5 EC (μmho/cm)	6.99-  Cumulative  Gallons  Removed	900 Appearance	
Befo Af FIELD MEAS	ore Purging: fter Purging: SUREMENTS: Temp	8:10 10:50	20.1 19.5 EC	6.99- Cumulative Gallons	900	
Befo Af FIELD MEAS <u>Time</u> 10:18	ore Purging: fter Purging: UREMENTS: Temp (°C) 17.3	8:10 10:50 <u>pH</u> 6.93	20.1 19.5 EC (umho/cm) 480	Cumulative Gallons Removed	900  Appearance Clear	
Befo Af FIELD MEAS Time 10:18 10:27 10:33 10:37	Temp (° C) 17.3 17.5 17.3 17.4	8:10 10:50 <u>pH</u> 6.93 6.86 6.89 6.96	20.1 19.5 EC (umho/cm) 480 600	Cumulative Gallons Removed  1.5 3.0	900  Appearance Clear Clear	
Befo Af  FIELD MEAS  Time  10:18 10:27 10:33 10:37 10:40	Temp (° C)  17.3 17.5 17.3 17.4 17.3	8:10 10:50 pH 6.93 6.86 6.89 6.96 6.91	20.1 19.5 EC (umho/cm) 480 600 650	Cumulative Gallons Removed  1.5 3.0 5.0	900  Appearance  Clear  Clear  Clear	
Befo Af  FIELD MEAS  Time  10:18 10:27 10:33 10:37 10:40 10:43	Temp (° C)  17.3 17.5 17.3 17.4 17.3 17.3	8:10 10:50 <u>pH</u> 6.93 6.86 6.89 6.96	20.1 19.5 EC (umho/cm) 480 600 650 700 750 800	Cumulative Gallons Removed  1.5 3.0 5.0 6.0 7.0 8.0	Appearance Clear Clear Clear Clear Clear Clear Clear Clear	
Befo Af  FIELD MEAS  Time  10:18 10:27 10:33 10:37 10:40	Temp (° C)  17.3 17.5 17.3 17.4 17.3	8:10 10:50 pH 6.93 6.86 6.89 6.96 6.91	20.1 19.5 EC (umho/cm) 480 600 650 700 750	Cumulative Gallons Removed  1.5 3.0 5.0 6.0 7.0	Appearance Clear Clear Clear Clear Clear Clear Clear	
Befo Af  FIELD MEAS  Time  10:18 10:27 10:33 10:37 10:40 10:43 10:46	Temp (° C)  17.3 17.5 17.3 17.4 17.3 17.4	8:10 10:50 pH 6.93 6.86 6.89 6.96 6.91 6.91	20.1 19.5 EC (umho/cm) 480 600 650 700 750 800	Cumulative Gallons Removed  1.5 3.0 5.0 6.0 7.0 8.0 9.0	Appearance Clear Clear Clear Clear Clear Clear Clear Clear	Time: 12:40
Before Af	Temp (° C)  17.3 17.5 17.3 17.4 17.3 17.4 17.3	8:10 10:50 pH 6.93 6.86 6.89 6.96 6.91	20.1 19.5 EC (umho/cm) 480 600 650 700 750 800	Cumulative Gallons Removed  1.5 3.0 5.0 6.0 7.0 8.0	Appearance Clear Clear Clear Clear Clear Clear Clear Clear	Time: 12:40
Before Af	Temp (° C)  17.3 17.5 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4	8:10 10:50 pH 6.93 6.86 6.89 6.96 6.91 6.91	20.1 19.5 EC (umho/cm) 480 600 650 700 750 800	Cumulative Gallons Removed  1.5 3.0 5.0 6.0 7.0 8.0 9.0	Appearance Clear Clear Clear Clear Clear Clear Clear Clear	Time: 12:40
Before Affile Affile Affile Appearance of Supplicate/blank	Temp (° C)  17.3 17.5 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4	8:10 10:50 <u>pH</u> 6.93 6.86 6.89 6.96 6.91 6.91	20.1 19.5 EC (umho/cm) 480 600 650 700 750 800	Cumulative Gallons Removed  1.5 3.0 5.0 6.0 7.0 8.0 9.0	Appearance Clear Clear Clear Clear Clear Clear Clear Clear	
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Time  10:18 10:27 10:33 10:37 10:40 10:43 10:46  Water level after appearance of sompling equip equip	Temp (° C)  17.3 17.5 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	8:10 10:50  pH 6.93 6.86 6.89 6.96 6.91 6.91 6.91 buble diaphragm pump sposable PVC bailer	20.1 19.5 EC (umho/cm) 480 600 650 700 750 800 750	Cumulative Gallons Removed  1.5 3.0 5.0 6.0 7.0 8.0 9.0	Appearance Clear Clear Clear Clear Clear Clear Clear Clear	Time: 12:40
Befo Af  FIELD MEAS  Time  10:18 10:27 10:33 10:37 10:40 10:43 10:46	Temp (° C)  17.3 17.5 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4	8:10 10:50 pH 6.93 6.86 6.89 6.96 6.91 6.91	20.1 19.5 EC (umho/cm) 480 600 650 700 750 800 750	Cumulative Gallons Removed  1.5 3.0 5.0 6.0 7.0 8.0 9.0	Appearance Clear	Time: 12:40 Time:

(S9150AGW.XLW-6/14/95)



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

## ANALYTICAL REPORT

Prepared for:

Baseline Environmental 5900 Hollis Street Suite D Emeryville, CA 94608

Date: 01-JUN-94

Lab Job Number: 115737 Project ID: S9105-A0

Location: B.Collins 6050 Hollis St.

Reviewed by:

Reviewed by:

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LABORATORY NUMBER: 115737

CLIENT: BASELINE ENVIRONMENTAL

PROJECT ID: S9105-A0

LOCATION: B.COLLINS, 6050 HOLLIS ST.

DATE SAMPLED: 05/24/94 DATE RECEIVED: 05/24/94

DATE ANALYZED: 05/26/94

DATE REPORTED: 06/01/94

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions TVH by California DOHS Method/LUFT Manual October 1989 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)
115737-001	MW-H1	3,400	21	ND(0.5)	10	6.7
115737-002	MW-H2	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
115737-003	MW-H3	110+	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

#### QA/QC SUMMARY

RPD, %	3
RECOVERY, %	105

<sup>+</sup> Sample chromatogram does not resemble the gasoline standard; single peaks contributing to the quantitation of the gasoline range.

FileName : G:\GCO7\145F031.raw Start Time : 0.00 min Er

Scale Factor: -1

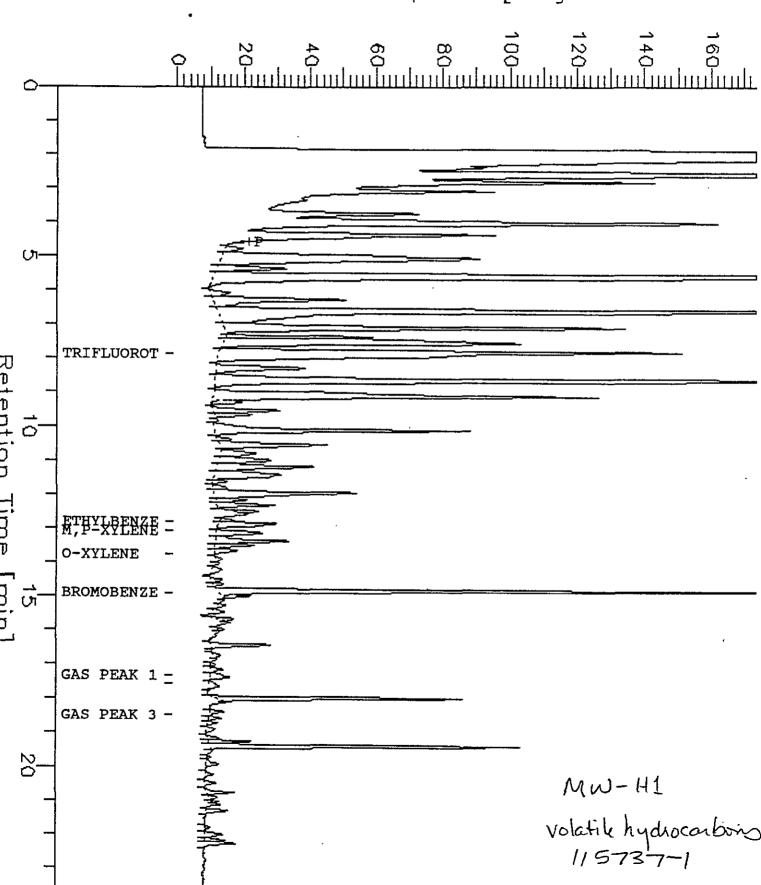
End Time : 24.33 min Plot Offset: -1 mV

Date: 5/26/94 11:17 AM Low Point : -1.11 mV

Plot Scale: 175 mV

Page 1 of 1 High Point: 173.89 mV

Response [mV]



TVH - GC-07 RTX-1 FileName : G:\GC07\145F017.raw Date: 5/26/94 2:40 AM Page 1 of 1 Start Time : 0.00 min Low Point : -1.13 mV End Time : 24.33 min High Point: 173.87 mV Plot Offset: -1 mV Scale Factor: -1 Plot Scale: 175 mV Response [mV] On-TRIFLUOROT -ETHYLBERRE = O-XYLENE BROMOBENZE -GAS PEAK 1 -GAS PEAK 3 -MW-HZ volatile hydrocarbons 115737-2

TVH - GC-07 RTX-1 : G:\GC07\145F018, raw Date : 5/26/94 3:14 AM Page 1 of 1 Start Time : 0.00 min End Time : 24.33 min Low Point : -1.21 mV High Point: 173.80 mV Scale Factor: -1 Plot Offset: -1 mV Plot Scale: 175 mV Response [mV] (J) Retention Time [min] TRIFLUOROT -ETHY LEEKE = O-XYLENE BROMOBENZE -GAS PEAK 1 -MW-H3 Volatile hydro carbons 115737-3 GAS PEAK 3 -

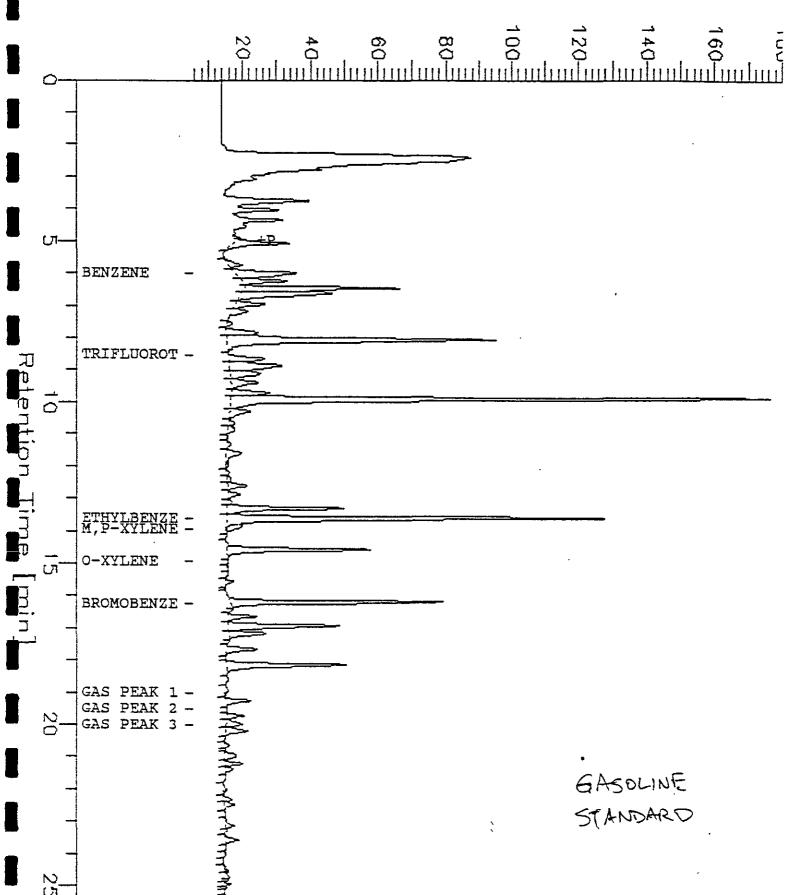
FileName : G:\GC10\277A025.raw

Start Time : 0.00 min Scale Factor: -1 End Time : 26.00 min Plot Offset: 5 mV Date : 10/5/93 8:24 AM Low Point : 5.19 mV

Plot Scale: 175 mV

Page 1 of 1 High Point : 180.19 mV

Response [mV]





LABORATORY NUMBER: 115737

CLIENT: BASELINE ENVIRONMENTAL

PROJECT ID: S9105-A0

LOCATION: B.COLLINS, 6050 HOLLIS ST.

DATE SAMPLED: 05/24/94

DATE RECEIVED: 05/24/94
DATE EXTRACTED: 05/25/94
DATE ANALYZED: 05/27/94

DATE REPORTED: 06/01/94

# Extractable Petroleum Hydrocarbons in Aqueous Solutions California DOHS Method LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
115737-001	MW-H1	**	280	50
115737-002	MW-H2	ND	ND	50
115737-003	MW-H3	**	110	50

#### QA/QC SUMMARY:

RPD, %	14
RECOVERY, %	111

Sample Name: 115737-001 500:2.5 FileName

: g:\gc11\chb\147B012.raw : GC11 B.ins

art Time : 0.00 min e Factor: -1

End Time : 31.92`min Plot Offset: 29 mV

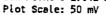
Page 1 of 1

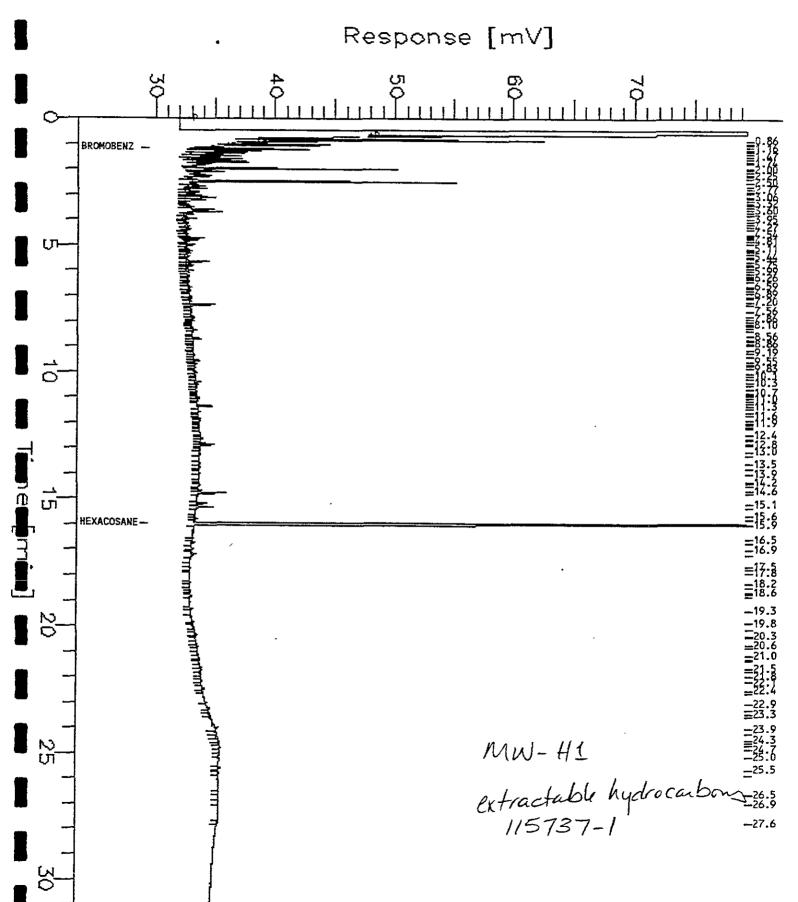
Date: 5/27/94 05:59 PM

Time of Injection: 5/27/94 05:26 PM

Low Point : 29.42 mV

High Point: 79.42 mV





Sample Name : 115737-002 500:2.5 FileName

: g:\gc11\chb\1478013.raw

: GC11\_B.ins rt Time : 0.00 min

le Factor: -1

: 31.92 min End Time Plot Offset: 29 mV

Sample #: 14337 Date: 5/27/94 06:42 PM

Time of Injection: 5/27/94 06:09 PM

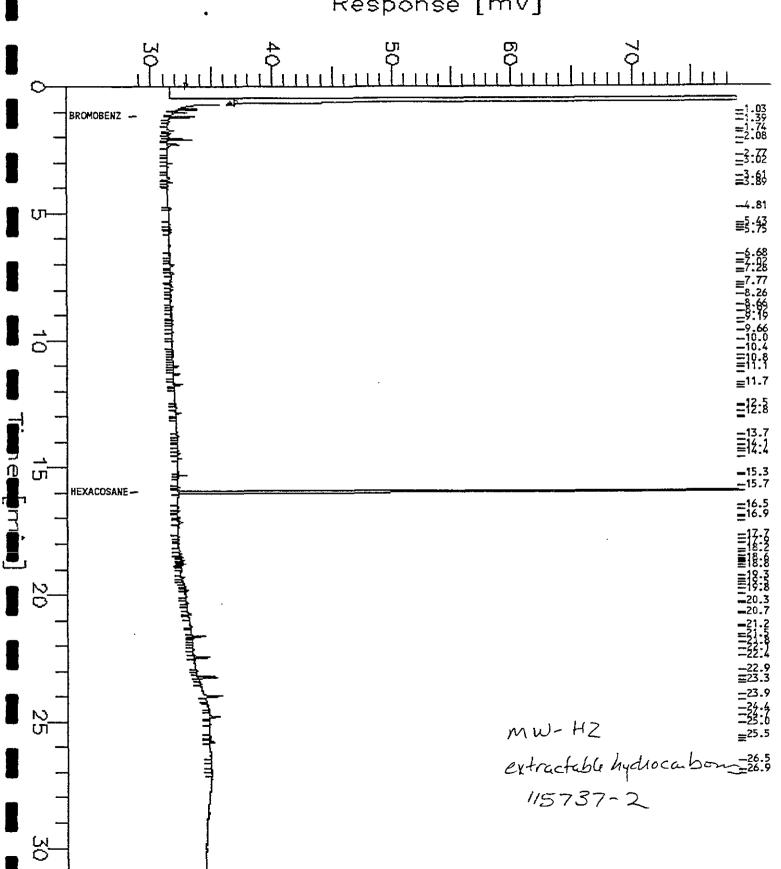
Low Point : 28.82 mV

High Point: 78.82 mV

Page 1 of 1

Plot Scale: 50 mV





TEH Chromato mple Name : 115737-003 500:2.5 Sample #: 14337 FileName : g:\gc11\chb\147B014.raw Date : 5/27/94 07:26 PM : GC11 B.ins Time of Injection: 5/27/94 06:53 art Time : 0.00 min End Time : 31.92 min Low Point : 28.87 mV High Point : le Factor: -1 Plot Offset: 29 mV Plot Scale: 50 mV Response [mV] BROMOBENZ -IJ HEXACOSANE -MW-H3 =23.7 24.1 25.6 25.6 25.6 25.6 25.6 115737-3

# TEH Chromatogram GC11 CH B

ple Name : kerosene 235 mg/L FileName

: g:\gc11\chb\277b052.raw

: GC11CHB.ins Method

art Time : 0.00 min ale Factor: -1

End Time : 31.92 min Plot Offset: 34 mV

Sample #: 93ws5584

Date: 10/6/93 4:23 AM

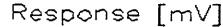
Time of Injection: 10/6/93 3:50 AM

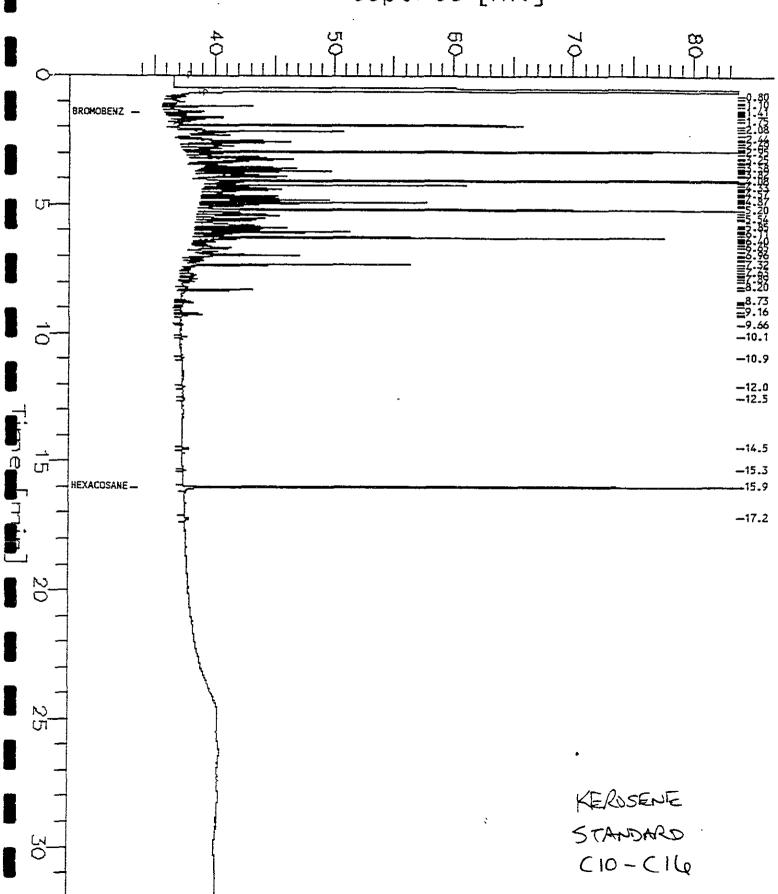
Low Point : 33.64 mV

High Point: 83.64 mV

Page 1 of 1

Plot Scale: 50 mV





## TEH Chromatogram GC11 CH B

le Name : diesel 513 mg/L

: g:\gc11\chb\277b053.raw FileName

: GC11CX8.ins

t Time : 0.00 min e factor: -1

End Time : 31.92 min

Plot Offset: 34 mV

Sample #: 93ws5585 Date : 10/6/93 5:08 AM

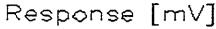
Time of Injection: 10/6/93 4:34 AM

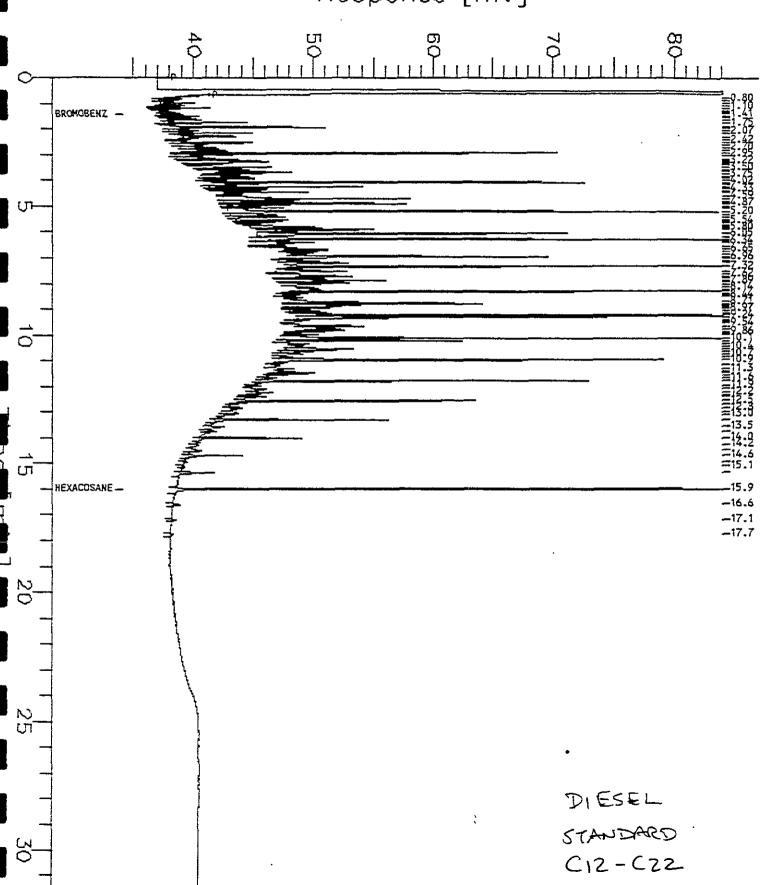
Low Point: 34.13 mV

Plot Scale: 50 mV

High Point : 84.13 mV

Page 1 of 1





BASELINE

CHAIN OF CUSTODY RECORD

Turn-around Time Lab BASELINE Contact Person Curto + Barthus 73/1 Scott

5900 Hollis Street, Suit Emeryville, CA 94608 (510) 420-8686	0) 420-8686					WECC	,KD				Lab BASE		id Tim ∃ Cont		Person	Cu		Donkers Scott	
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Samplers: (Signature)	Millen	n K	Scott	-	,		diesel as and	28e			ctals				.				
Sample ID No. Station	Date	Time	Media	Depth	No. of Contain- ers	一世	(TPH " Suspen Land	Oil & Grease	Motor Oil PNAs	Title 22	Total I.	Per Tead						Remarks/	Detec- tion Limits
MW-HI	5-24-94	12,30	Water		4	X	X												Tri Valey
MW- H2	5-24-94	12)00	Water		4	X	7										<u> </u>		- lı
MW-H3	5-24-94	12:40	Waller		Ч	×	×												ζ,
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