



December 16, 1994 SCI 469.009

Mr. Robert Mibach
Director, Physical Plant
Peralta Community College District
333 East 8th Street
Oakland, California 94606

Quarterly Groundwater Monitoring November 1994 Event College of Alameda 555 Atlantic Avenue Alameda, California

Dear Mr. Mibach:

This letter presents the results of quarterly groundwater monitoring conducted by Subsurface Consultants, Inc. (SCI) at the referenced site. The monitoring program has been implemented in accordance with Regional Water Quality Control Board and Alameda County Health Care Services Agency (ACHCSA) guidelines due to the presence of petroleum hydrocarbons in the soil beneath previous underground fuel storage tanks. Five wells currently exist at the site. Wells MW-1, MW-3 and MW-5 are being monitored quarterly; wells MW-2 and MW-4 are being monitored semi-annually.

Groundwater Sampling

The sampling event was performed between November 3 and November 7, 1994. Initially, the depth to water below the top of casing (TOC) was measured in all the wells using an electric well sounder. Current and previous groundwater elevation data are presented in Table in Table 1.

Prior to purging, wells MW-1, MW-2, MW-3 and MW-5 were checked for free floating product using a steel tape with petroleum product sensitive paste. The slow recharging wells, MW-1 and MW-3, were then purged by bailing them dry with a disposable bailer. Wells MW-2 and MW-5 were purged by bailing with a disposable bailer until temperature, pH, and conductivity measurements had stabilized. Well MW-4 is being sampled semi-annually and was not sampled during this event. Well sampling forms are attached.

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The wells were sampled after they had recharged to within 80% of their initial volume. The samples were retained in glass containers pre-cleaned by the supplier in accordance with EPA protocol. The samples were placed in an ice chest and remained refrigerated until transmittal to the analytical laboratory. Chain of Custody records accompanied the samples to the laboratory.

Analytical Testing

Groundwater samples were transmitted to Curtis and Tompkins, Ltd., a State of California Department of Health Services certified analytical laboratory. The testing program included the following analyses:

- 1. Total extractable hydrocarbons (TEH),
- 2. Benzene, toluene, ethylbenzene, and xylenes (BTEX), and
- 3. Total oil and grease (TOG).

The results of all analytical testing events are presented in Table 2. Analytical test reports and Chain-of-Custody forms are attached.

Conclusions

Groundwater level data indicate that groundwater currently flows in a north-northwest direction at a gradient of about 1 percent. Groundwater flow contours for the current event are presented on Plate 2.

TEH within the diesel range were detected in well MW-5, near the former waste oil tank area. The analytical laboratory has indicated that the sample chromatogram resembles a light weight oil, and does not resemble diesel. TEH was not detected in the other wells sampled.

Oil and grease and BTEX were not detected in the wells sampled during this event.

Ongoing Monitoring

In accordance with the monitoring schedule, the next monitoring event will occur in February 1995. During that event, water level readings will be obtained from all the wells and wells MW-1, MW-3, MW-4 and MW-5 will be sampled. The groundwater samples will be analyzed for total extractable hydrocarbons, total oil and grease, and BTXE.

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If you have any questions, please call.

Marianne Watada

Yours very truly,

Subsurface Consultants, Inc.

Marianne Watada

Project Engineer

Jeriann N. Alexander

Civil Engineer 40469 (expires 3/31/95)

MFW:JNA:sld

2 copies submitted

Attachments: Table 1 - Contaminant Concentrations in Groundwater

Table 2 - Groundwater Elevations

Plate 1 - Site Plan

Plate 2 - Study Area Plan Analytical Test Report Chain-of-Custody Form Well Sampling Forms

cc: Ms. Juliet Shin

Alameda County Health Care Services Agency

Hazardous Materials Division

1131 Harbor Bay Parkway, 2nd Floor

Alameda, California 94502

Table 1.
Groundwater Elevations

<u>W</u> ell	TOC Elevation	<u>Date</u>	Groundwater Depth(feet)	Groundwater Elevation(feet)
MW-1	12.16	02/24/92	1.64	10.52
		03/09/92	4.28	7.88
		03/24/92	4.33	7.83
		04/28/92	4.54	7.62
		06/29/92	5.92	6.24
		07/27/92	5.74	6.42
		08/27/92	6.04	6.12
		09/24/92	6.16	6.00
		12/16/92	6.19	5.97
		01/21/93	6.83	5.33
		02/07/94	6.01	6.15
		05/03/94	5.03	7.13
		06/02/94	5.14	7.02
		08/23/94	5.20	6.96
		11/03/94	5.51	6.65
MW-2	11.07	02/24/92	4.45	6.62
		01/21/93	6.83	4.24
		03/24/92	3.73	7.34
		04/28/92	4.25	6.82
		06/29/92	4.40	6.67
		07/27/92	4.00	7.07
		08/27/92	4.33	6.74
		09/24/92	4.36	6.71
		12/16/92	4.08	6.99
		01/21/93	4.40	6.67
		02/07/94	3.60	7.47
		05/03/94	4.04	7.03
		06/02/94	4.17	6.90
		08/23/94	4.28	6.79
		11/03/94	4.33	6.74
MW-3	12.65	02/24/92	13.12	-0.47
		03/09/92	8.75	3.90
		03/24/92	6.87	5.78
		04/28/92	6.31	6.34
		06/04/92	7.10	5.55
		06/29/92	10.78	1.87
		07/27/92	6.88	5.77
		09/24/92	7.38	5.27
		12/16/92	6.50	6.15
		01/21/92	10.25 Alyseo	2.40
			Valge	Jungta!

Table 1 **Groundwater Elevations** (continued)

	тос		Groundwater Depth	Groundwater Elevation
Well	Elevation	<u>Date</u>	(feet)	(feet)
		02/07/94	11.44	1.21
		05/03/94	7.02	5,63
		06/02/94	9.15	3.50
		08/23/94	7.13	5.52
		11/03/94	7.54	5.11
MW-4	12,22	02/07/94	5.92	6.30
		05/03/94	5.50	6.72
		06/02/94	5.17	7.05
		08/23/94	5.73	6.49
		11/03/94	6.41	5.81
MW-5	12,69	02/07/94	4.89	7.80
		05/03/94	4.50	8.19
		06/02/94	4.49	8.20
		08/23/94	4.83	7.86
		11/03/94	5.14	7.55

TOC = Top of Casing
Groundwater depth measured below TOC
TOC elevation surveyed relative to mean sea level

Table 2
Contaminant Concentrations in Groundwater

			TE	<u>H</u>						
			Kerosene	Diesel				Ethyl-	Total	
	Sampling	TVH	Range	Range	TOG	Benzene	Toluene	Benzene	Xylenes	EPA 8010
	<u>Date</u>	<u>(ug/l)</u>	<u>(ug/l)</u>	(ug/l)	(mg/l)	(ug/l)	<u>(ug/l)</u>	(ug/l)	<u>(ug/I)</u>	<u>Chemicals</u>
Fuel Oil Tank Area	1									
MW-1	02/19/92		<50	94		<0.5	<0.5	<0.5	<0.5	
	06/29/92	***	<50	110		< 0.5	< 0.5	<0.5	<0.5	
	09/29/92		<50	<50		<0.5	< 0.5	<0.5	<0.5	
	12/22/92		<50	180		<0.5	< 0.5	<0.5	<0.5	
	01/26/94		60	<50	<5	<0.5	< 0.5	< 0.5	<0.5	
	05/04/94		<50	<50	<5	<0.5	< 0.5	< 0.5	<0.5	
	08/25/94		*	480	<5	<0.5	<0.5	<0.5	<0.5	
	11/07/94		<50	<50	<5	<0.5	<0.5	<0.5	<0.5	
MW-4	01/26/94		<50	<50	<5	<0.5	<0.5	<0.5	<0.5	
	08/25/94		*	530	<5	<0.5	<0.5	<0.5	<0.5	
Gasoline Tank Are	<u>a</u>									
Tank Excavation	08/15/91	800		***		78	99	10	52	Subsurface
MW-2	02/19/92	<50				<0.5	<0.5	<0.5	<0.5	ırfa 1
	06/29/92	<50				< 0.5	< 0.5	<0.5	< 0.5	
	09/29/92	<50				< 0.5	<0.5	<0.5	< 0.5	 δ
	12/22/92	<50				< 0.5	< 0.5	<0.5	< 0.5	ns an
	01/25/94		<50	<50	<5	<0.5	<0.5	< 0.5	< 0.5	Consultants,
	05/04/94		*	50	<5	<0.5	< 0.5	< 0.5	< 0.5	an
	11/04/94		<50	<50	<5	<0.5	<0.5	<0.5	<0.5	ts, Inc.

Table 2.
(continued)
Contaminant Concentrations in Groundwater

			TE	<u>H</u>						
	Sampling _Date_	TVH (ug/l)	Kerosene Range (ug/l)	Diesel Range <u>(ug/l)</u>	TOG (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethyl- Benzene (ug/l)	Total Xylenes (ug/l)	EPA 8010 Chemicals
Waste Oil Tan	ık <u>Area</u>									
MW-3	02/19/92	<5000+	680	<50	<5	<50	<50	<50	84	ND
	06/29/92	<50	*	190	<5	<0.5	<0.5	< 0.5	< 0.5	ND
	09/29/92	<50	*	410	<5	< 0.5	< 0.5	<0.5	< 0.5	ND
	12/21/92	<500	*	400	<5	<5	<5	<5	<5	ND
	01/26/94		70	<50	<5	< 0.5	<0.5	< 0.5	0.8	
	05/05/94		<50	140	<5	< 0.5	< 0.5	<0.5	< 0.5	
	08/25/94		*	900	<5	14.5	5.1	<0.5	<0.5	
	11/07/94	هدنتن	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	
MW-5	01/25/94	* =	*	5,200++	<5	< 0.5	<0.5	<0.5	<0.5	ت ه≅
	05/04/94		*	3,500++	<5	<0.5	<0.5	< 0.5	< 0.5	
	08/25/94		*	5,000++	<5	< 0.5	< 0.5	< 0.5	<0.5	
	11/04/94		*	4,600++	<5	<0.5	<0.5	<0.5	<0.5	l Sub

TVH = Total volatile hydrocarbons as gasoline, EPA 8015/5030 modified

TEH = Total extractable hydrocarbons, EPA 3550/8015 modified

TOG = Total oil and grease, EPA 3550 and SMWW 17:5520 B&F

ug/l = Micrograms per liter or parts per billion (ppb)

mg/l = Milligrams per liter or parts per million (ppm)

⁻⁻⁼ Test not requested

⁺⁼ Sample diluted due to foaming during purge and trap extraction

ND = Not detected at or above reporting limits. Reporting limits vary from 1.0 to 20 ug/l. See test reports for individual reporting limits.

^{* =} Quantitated as diesel range

⁺⁺⁼ Laboratory indicates that the sample chromatogram resembles a light weight oil.

	•	Hameda				inch
Job No.:			-	asing Diameter: 11/4 /94		
Sampled By:	-			• /		
TOC Elevation:		·····	weath	er: <u>Sunn</u>	4	
Depth to Casing Bo	ottom (below T	OC)	12.00			feet
Depth to Groundwa			, ,			
· Feet of Water in W			, 1/0			feet
Depth to Groundwa			1 01			feet
			0.0408)			_ gallons
Depth Measureme	nt Method	Tape & 1	Paste Electr	ronic Sounder	/ Other	
Free Product	no	ne				· · · · · · · · · · · · · · · · · · ·
Purge Method	di	Sposable	bailer			·
		£	EASUREMENTS			
allons Removed 1 2 3 43.5	7.34 7.37 7.68 7.90	FIELD MI Temp (°c) 19.5 19.5			Cor Clear Co Somi-Cl Murks	nments regamic octor ea Heavy Porti
	7.34 7-37 7-68 7.90 and \$3.5 ter Before Sam	FIELD MI Temp (°c) 19.5 19.5 19.0	Conductivity (micromhos/cm) 220×100 215×100 220×100 210×100 210×100	1	Cor Clean Co Semi-cl Musho Dry @	nments rgamic odor ea franti 3.59 callons
7 2 3 43.5 Total Gallons Purge	7.34 7-37 7-68 7.90 and \$3.5 ter Before Sam	Temp (°c) 19.5 19.5 19.5 19.5 19.5 Ipling (below T	Conductivity (micromhos/cm) 220×100 215×100 220×100 210×100 210×100	Salinity S%	Cor Clean Co Semi-cl Musho Dry @	nments regamic odor ea / Partit 3,5 g

WELL SAMPLING FORM

		WELL S	SAMPLING FOR	М	
Project Name:	Pollege of	Alameda	Well Nu	mber: <u>M</u> W	-2
Job No.: 469.009					
				•	
Depth to Casing Bo	ottom (below To	DC)	10.00		feet
Depth to Groundwa	iter (below TO	C)	4.33		feet
					feet
					feet
					gallons
					/ Other
Free Product					
		FIELD ME	:ASUREMENTS		
Gallons Removed	_ *	- 1	Conductivity (micromhos/cm)		Comments Clear no adoc
		21-0	<u>3000</u> 3300		Semi-chear Scient
2	7.61	21.0	2925		murky
3	7.56	21.0	2825		
Total Gallons Purge	d <u>3</u>				gallons
Depth to Groundwat	ter Before Sam	pling (below To	oc) — 4,	41	feet
Sampling Method	tello	n bailer			
Containers Used	# <u>2</u>		1iter	pint	

Subsurface Consultants JOB NUMBER

Project Name:(allege o	& Alamed	G Well Nu	ımber: <u>M</u> u	J-3	
Jab No.:	[-			asing Diameter:		
Sampled By:				11/4/94		
TOC Elevation:				er: <u>Suna</u>		
					,	
Depth to Casing Bott	om (below T	oc)	15.00			feet
Depth to Groundwate	er (bel <mark>ow</mark> TO	C)	7.54			feet
· Feet of Water in Wel	-					feet
Depth to Groundwate			900			
			0.0408)/-2			
Depth Measurement					/ Other	
Free Product		none				
Purge Method			le briter			****
		O NO SPOSO	c auto			
		1	EASUREMENTS			
allons Removed	pН	1	EASUREMENTS Conductivity (micromhos/cm)			mments
allons Removed		FIELD M	Conductivity (micromhos/cm)			mments / <i>Loth</i>
allons Removed /	pH 7.32 7.29	Temp (°c) 18.0 18.0	Conductivity (micromhos/cm) 395 × 100 400 × 100		Con Yellow-Ge	mments / <i>Loth</i>
allons Removed	pH 7.32 7.29 7.32	Temp (°c) 18.0 18.0 18.0	Conductivity (micromhos/cm) 395 × 100 400 × 100 420 × 100		Con Yellow-Ge	mments een/Fag
allons Removed / 2	pH 7.32 7.29	Temp (°c) 18.0 18.0	Conductivity (micromhos/cm) 395 × 100 400 × 100		Geen	mments een/Fag
allons Removed / 2	pH 7.32 7.29 7.32	Temp (°c) 18.0 18.0 18.0	Conductivity (micromhos/cm) 395 × 100 400 × 100 420 × 100		Geen	mments een/Fag
allons Removed / 2	pH 7.32 7.29 7.32 7.31	Temp (°c) 18.0 18.0 18.0	Conductivity (micromhos/cm) 395 × 100 400 × 100 420 × 100 420 × 100	Salinity S%	Geen Colore	mments een/Fag
allons Removed / 2 3 4	pH 7.32 7.29 7.32 7.31	Temp (°c) 18.0 18.0 18.0 17.5	Conductivity (micromhos/cm) 395 × 100 400 × 100 420 × 100 420 × 100		Geen Colore	mments een/Fag
iallons Removed / 2 3 4 Total Gallons Purged	pH 7.32 7.29 7.32 7.31 4 r Before Sam	Temp (°c) 18.0 18.0 18.0 17.5	Conductivity (micromhos/cm) 395×100 400×100 420×100 420×100	Salinity S%	Geen Colore	mments een/Fgg
allons Removed / 2 3 4 Total Gallons Purged Depth to Groundwate	pH 7.32 7.29 7.32 7.31 4 Before Sam	Temp (°c) 18.0 18.0 18.0 17.5 IT.5	Conductivity (micromhos/cm) 395 × 100 400 × 100 420 × 100 420 × 100 420 × 100	Salinity S%	Geen Colore	mments een/Fgg
Total Gallons Purged Depth to Groundwate	pH 7.32 7.29 7.32 7.31 4 r Before Sam	Temp (°c) 18.0 18.0 18.0 17.5 IT.5	Conductivity (micromhos/cm) 395×100 400×100 420×100 420×100	Salinity S%	Geen Colore	mments een/Fgg o / / / / / / / / / / / / / / / / / /
Total Gallons Purged Depth to Groundwate	pH 7.32 7.29 7.32 7.31 4 Before Sam	Temp (°c) 18.0 18.0 18.0 17.5 IT.5	Conductivity (micromhos/cm) 395 × 100 400 × 100 420 × 100 420 × 100 420 × 100	Salinity S%	Geen Colore	mments een/Fgg o / / / / / / / / / / / / / / / / / /

WELL SAMPLING FORM

		WELL	SAMPLI	NG FOR	M			
Project Name:	llege o	f Alame	da	Well Nu	mber:	Mu)-5	
Job No.: 4	69.009			Well Ca	sing Diam	eter:	2	inch
Sampled By:	Di	JA		Date: _	<u></u>	4194		· · · · · · · · · · · · · · · · · · ·
TOC Elevation:				Weather	*	Sum	4	
Depth to Casing Botton								
Depth to Groundwater								
Feet of Water in Well								
Depth to Groundwater								
Casing Volume (feet of	water x C	asing DIA 2 x (0.0408) -	/	20			. gallons
Depth Measurement M	ethod	Tape &	Paste (Electro	onic Sound	der /	Other	
Free Product	V	10Wl					·	
Purge Method		disposa	ble ba	iles				
		FIELD M		MENTS			,	
Gallons Removed	pH		(microm	hos/cm)	Salinity	S%		nments / oRy
	7.16 1.10	<u>19.0</u> 19.0	165 X	700 700			Semi-de liauthum	ineku
3	7.14	19.0	1554	00				
4	7.10	19.5	175x	100			4	
Total Gallons Purged	4				<u></u>			_ gallons
Depth to Groundwater £		inling (helow]	TOC)		5.1	<u> 1' </u>		feet
Sampling Method		fon hai	her			•		
Containers Used	7 0		2	77-0	a		· · · · · · · · · · · · · · · · · · ·	
Outlainers Ossu	40 ml		liter		pint			
	_ _	····				··		PLATE
ubsurface (Cons	ultants	JOS NUMBER		DATE		APPRO'	VED

GROUNDWATER DEPTHS

Project Nan	ne: College of	Alameda	•	
Job No.:	469.009			a communication of the contract of the contrac
Measured b	y: DWA			

Well	Date	Time	Groundwater Depth (feet)	Comments
MW-1	11/3/94	11:10	5.61	
MW-Z		11:00	4.33	
MW-3		10:55	7.54	
MW-4.		11:20	6.41	
MW-5	1	10:50	5.14	
		-		
			-	
				·
<u></u>				
,			·	
				-
	<u> </u>			
				-
				·



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

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

ANALYTICAL REPORT

Prepared for:

Subsurface Consultants 171 12th Street Suite 201 Oakland, CA 94608

Date: 15-NOV-94 Lab Job Number: 118344 Project ID: 469.009

Location: College of Alameda

Reviewed by: May Plenar

Reviewed by: Anthrice Sellies

This package may be reproduced only in its entirety.

Irvine Berkeley



LABORATORY NUMBER: 118344

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 469.009

LOCATION: COLLEGE OF ALAMEDA

DATE SAMPLED: 11/04,07/94
DATE RECEIVED: 11/07/94
DATE EXTRACTED: 11/09/94
DATE ANALYZED: 11/10,11/94
DATE REPORTED: 11/15/94

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)
118344-1	MW-1	ND	ND	50
118344-2	MW-2	ND	ND	50
118344-3	MW-3	ИD	ND	50
118344-4	MW-5	**	4,600*	50
	METHOD BLANK	ND	ND	50

ND = Not detected at or above reporting limit. Reporting limit applies to all analytes.

* Sample chromatogram does not resemble diesel standard pattern.

** Kerosene range not reported due to overlap of hydrocarbon ranges.

QA/QC SUMMARY:

RPD, %	5
RECOVERY, %	108



LABORATORY NUMBER: 118344

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 469.009

LOCATION: COLLEGE OF ALAMEDA

DATE SAMPLED: 11/04,07/94 DATE RECEIVED: 11/07/94 DATE ANALYZED: 11/14/94

DATE REPORTED: 11/15/94

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020 Extraction by EPA 5030 Purge and Trap

LAB ID	ID CLIENT ID		BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	REPORTING LIMIT
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
118344-1	MW-1		ND	ND	ND	ND	0.5
118344-2	MW-2		ND	ND	ND	ND	0.5
118344-3	MW-3		ND	ND	ND	ND	0.5
118344-4	MW-5		ND	ND	. ND	ND	0.5
	METHOD	BLANK	ND	ND	ND	ND	0.5

ND = Not detected at or above reporting limit.

Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	3
RECOVERY, %	103
<u> </u>	



Client: Subsurface Consultants Laboratory Login Number: 118344

Project Name: College of Alameda

Project Number: 469.009

Report Date: 15 November 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) METHOD: SMWW 17:5520BF

Lab ID	Sample 10	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batc
		Water	07-NOV-94	07-NOV-94	09-NOV-94	ND	mg/L	5	TR	1746
118344-002	MU-Z	Water	04-NOV-94	07-NOV-94	09-NOV-94	ND	mg/L	5	TR	1746
18344-003	MV-3	Water	07-NOV-94	07-NOV-94	09-NOV-94	NO	mg/L	5	TR	1746
18344-004	MH-5	Water	04-NOV-94	07-NOV-94	09-NOV-94	QN	mg/L	5	TR	1746
		•								

ND = Not Detected at or above Reporting Limit (RL).



QC Batch Report

Client:

Subsurface Consultants

Project Name: College of Alameda

Project Number: 469.009

Laboratory Login Number: 118344

Report Date: 15 November 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) QC Batch Number: 17460

Blank Results

Sample ID Result MDL Units Method Date Analyzed

SMWW 17:5520BF 09-NOV-94 ND 5 mg/L BLANK

Spike/Duplicate Results

Method Date Analyzed Sample ID Recovery

SMWW 17:5520BF 09-NOV-94 BS 93% BSD 87% SMWW 17:5520BF 09-NOV-94

Control Limits

90% 80% ~ 120% Average Spike Recovery Relative Percent Difference 6.7% < 20%

Sample Name: 118344-004 500:2.5 : g:\gc13\cha\314a018.raw

FileName : TEH. ins Method

Start Time : 0.00 min Scale Factor: -1

End Time : 31.92 min Plat Offset: 29 mV

Sample #: 17447

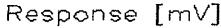
Date: 11/11/94 04:05 AM

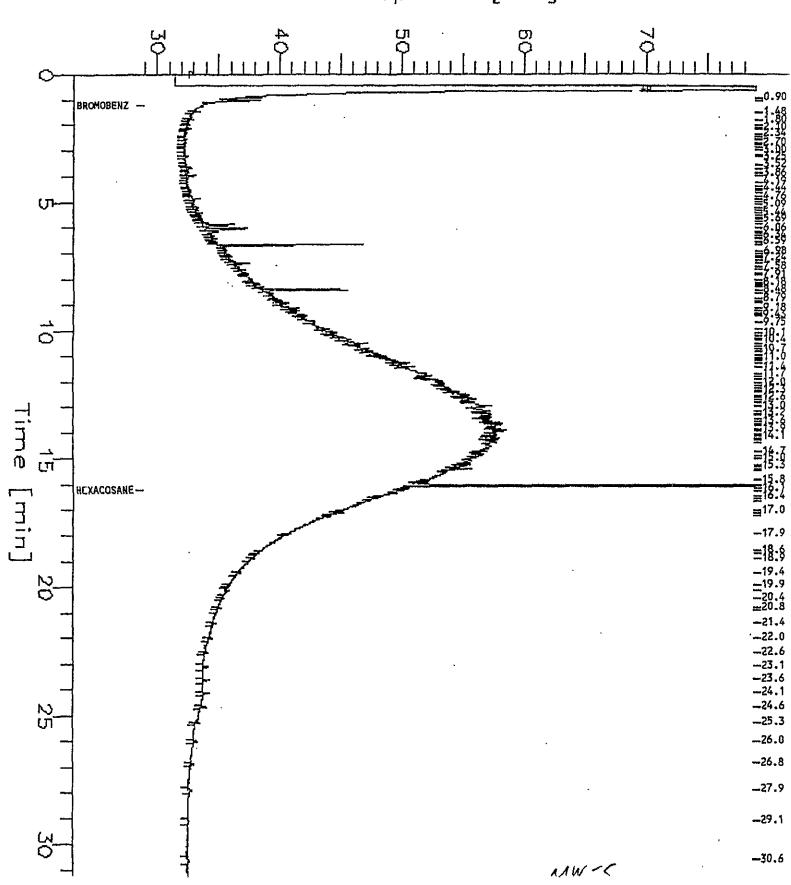
Time of injection: 11/11/94 03:32 AM

High Point : 78.92 mV

Page 1 of 1

Low Point : 28.92 mV Plot Scale: 50 mV





CHAIN OF CU	HAIN OF CUSTODY FORM															PAGE OF																						
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