## INNOVATIVE TECHNICAL SOLUTIONS, Inc.





February 12, 1997

Project No. 95-113.22

Mr. John Prall Associate Environmental Scientist Port of Oakland 530 Water Street Oakland, California 94607

Groundwater Monitoring and Sampling Report 801 Maritime Street Oakland, California (Work Order No. 202863)

Dear Mr. Prall:

This Groundwater Monitoring and Sampling Report (Report) has been prepared by Innovative Technical Solutions, Inc. (ITSI) on behalf of the Port of Oakland for groundwater monitoring and sampling performed on December 27, 1996 at the 801 Maritime Street site in Oakland, California. A site location map is shown on Figure 1.

The scope of work included monitoring and sampling one groundwater monitoring well, MW-1. The monitoring well is located in the vicinity of three former underground storage tanks previously removed from the site in February 1989: two 10,000-gallon tanks (CF-06 and CF-35) and a 20,000-gallon tank (CF-07).

#### SAMPLING OF MONITORING WELL

The groundwater monitoring and sampling was performed on December 27, 1996. The monitoring well was initially gauged for depth to water and checked for the presence of separate phase hydrocarbons. No separate phase hydrocarbons were observed in the monitoring well. The depth to water measurement was recorded on a Monitoring Well Purge and Sample Form. A Copy of the Monitoring Well Purge and Sample Form is provided in Attachment A.

After the depth to water measurement was recorded, the monitoring well was purged using a clean disposable bailer. Approximately three casing volumes of water were removed, or until pH, conductivity, and temperature readings stabilized indicating formation water had entered the monitoring well. Field parameters were recorded on the Monitoring Well Purge and Sample Form.

A groundwater sample was collected from the monitoring well using the disposable bailer and placed into laboratory provided containers. The sample containers were properly labeled with the sample number, date and time of collection, and samplers' initials, and were placed on ice in an insulated cooler. Purge water was stored onsite in a properly labeled drum.

The above field activities were performed in accordance with the site-specific Health and Safety Plan for groundwater monitoring activities at the site.

#### MONITORING WELL GROUNDWATER LEVEL

Depth to water data is summarized in Table 1. The groundwater elevation was calculated using the measured depth to water and survey elevation of top of casing, and is provided in Table 1. This survey used the Port of Oakland datum, which is 3.2 feet below mean sea level. Figure 2 shows the groundwater elevation.

The groundwater gradient for the site could not be determined this quarter. Due to initial access difficulties with MW-1, monitoring activities were not conducted concurrent with the monitoring activities performed by Alisto Engineering Group at the nearby Berth 24 facility. Attempts will be made to coordinate future quarterly monitoring activities with those at Berth 24 in order to determine a general gradient for the site.

#### LABORATORY ANALYSIS OF GROUNDWATER SAMPLE

The sample was sent under chain-of-custody procedures to Pace Analytical in Petaluma, California, the current Port of Oakland contract laboratory. The samples were analyzed according to the following schedule:

Monitoring Well		Analyses	
I.D.	TPHg <sup>(1)</sup>	BTEX <sup>(2)</sup>	TPHd <sup>(3)</sup>
MW-1	х	X	x

<sup>(1)</sup> TPH as gasoline by Modified EPA Method 8015.

<sup>&</sup>lt;sup>(2)</sup>Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 602.

<sup>(3)</sup> TPH as diesel by Modified EPA Method 8015 with silica gel cleanup procedure.

The laboratory results for the groundwater sample are summarized in Table 2, and shown in Figure 2. Copies of the laboratory results and chain-of-custody are provided in Attachment B.

#### **FINDINGS**

Results of the December 12, 1996 groundwater monitoring and sampling of MW-1 are summarized below:

- TPHg was reported at a concentration of 180 μg/l.
- Benzene, toluene, ethylbenzene and xylenes were reported at concentrations of 30, 15, 5.8 and 26 μg/l, respectively.
- TPHd was reported at a concentration of 670 μg/l.

Please give us a call if you have any questions or comments.

Sincerely,

Jim Schollard

**Environmental Scientist** 

Jeffrey D. Hess, R.G.

Project Director

Attachments

TABLE 1

# GROUNDWATER ELEVATIONS 801 MARITIME STREET OAKLAND, CALIFORNIA

Monitoring Well ID	Elevation of Top of Casing (feet)	Date of Monitoring	Measured Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	Note
MW-1	10.61	07/10/96	7.36	-	3.25	1
		12/27/96	7.55	-	3.06	

Data from Table 2, Summary of Results of Groundwater Sampling, Port of Oakland Tanks CF-06, CF-07, and CF-35, 801 Maritime Street, Oakland, California, dated August 7, 1996, by Alisto Engineering Group.

TABLE 2

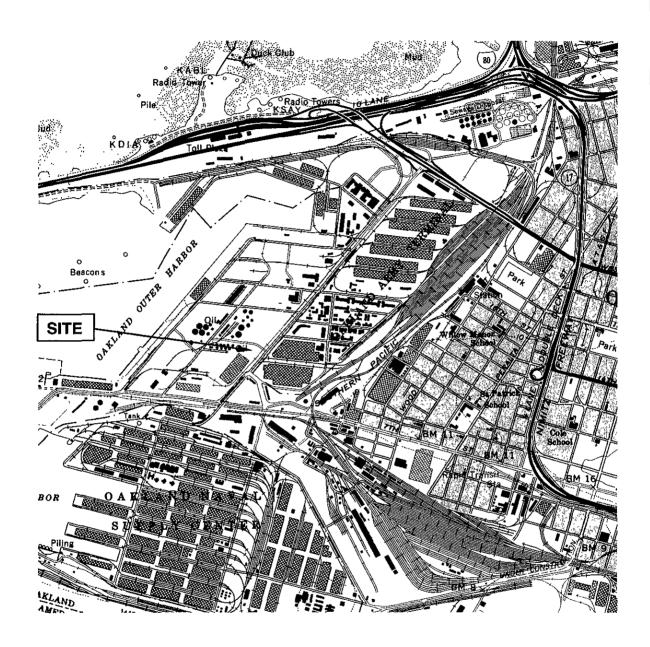
#### SUMMARY OF LABORATORY RESULTS 801 MARITIME STREET OAKLAND, CALIFORNIA

Monitoring Well ID	Date of Sampling	TPHg (μg/l)	Benzene (µg/l)	Toluene (μg/l)	Ethyl- benzene (µg/l)	Xylenes (μg/l)	TPHd (µg/l)	Note
MW-1	07/10/96	180	27	14	5.4	23	7,100	1
Ì	12/27/96	180	30	15	5.8	26	670	

Data from Table 2, Summary of Results of Groundwater Sampling, Port of Oakland Tanks CF-06, CF-07, and CF-35, 801 Maritime Street, Oakland, California, dated August 7, 1996, by Alisto Engineering Group.

TPHg = Total petroleum hydrocarbons (TPH) as gasoline.

TPHd = TPH as diesel.



0 2,000 Feet 4,000 Feet

Approximate Scale

#### FIGURE 1

#### SITE LOCATION

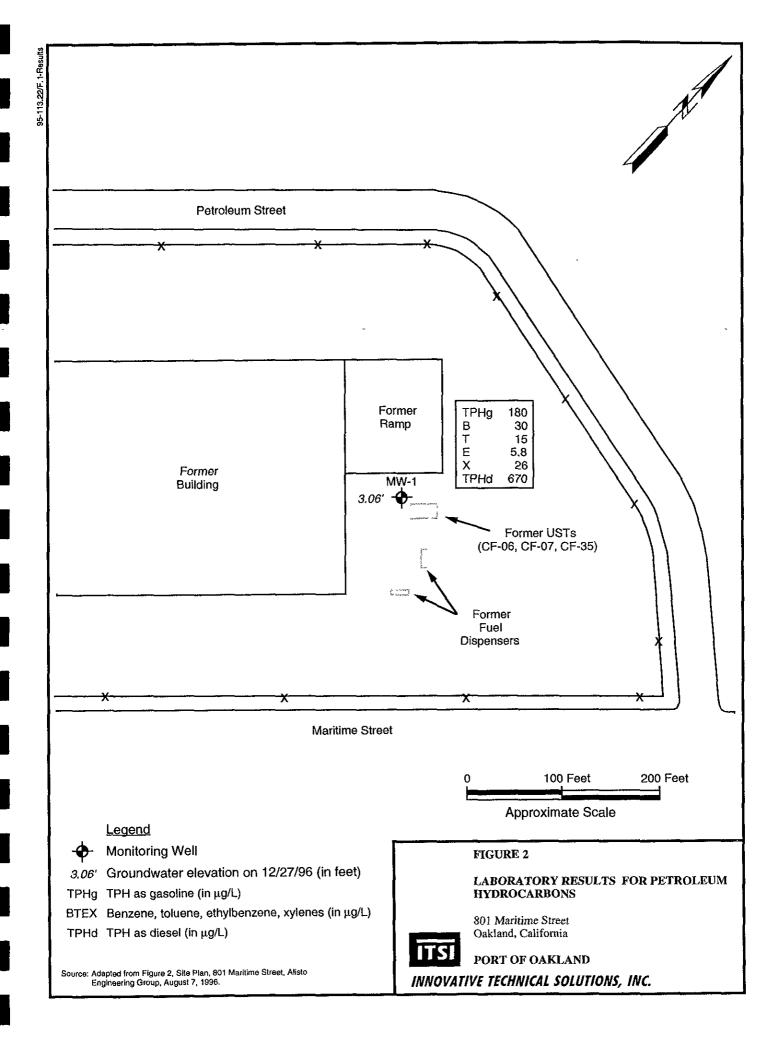
ITSI

801 Maritime Street Oakland, California

PORT OF OAKLAND

INNOVATIVE TECHNICAL SOLUTIONS, INC.

Source: Oakland West 7.5-minute U.S.G.S. Quadrangle, dated 1959, and photorevised in 1980.



# ATTACHMENT A COPY OF MONITORING WELL PURGE AND SAMPLE FORM

## MONITORING WELL PURGE AND SAMPLE FORM

PROJECT NAME: Lott	of Oakland - 8	301 Marit	me PROJECT NO.: 95-113.22
WELL NO.: <u>Mw-/</u>	_ TESTED B	Y: Jim S	cholland DATE: 12/27/96
Measuring Point Descripti	ion: red mark, 7	t.o.c.	Static Water Level (ft.): 7.55
Total Well Depth (ft.):	14.72	·····	Sample Method: 2"disposable baile
Water Level Measurement	t Method: <u>Solinis</u>	+ DTW Probe	Time Sampled: 1040
Purge Method: 2" disp			Sample Depth (ft.): ~ 8 ~ /9'
Time Start Purge: 102			Field Filtering: NA
Time End Purge: /O:			Field Preservation: Blue Ica
Comments: Cut existing le	bek + replaced of.	ITSE 0895	That; DTB="30ft" (sediments fresent);
Well Volume Calculation (ft)	lust observed	Water Column (ft)	Multiplier for Casing Diameter (in)  Casing Volume (gal)
(fill in before purging) 14.72	7.55	7.17	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
Time 102	27 1032	1035	
Volume Purged (gals) /. 2	1	1.20	
Cumulative Volume Purged (gals) /. 2	0 2.40	3.60	
Cumulative Number of Casing Volumes /. O	<u> </u>	3./3	
Purge Rate (gpm) O.	4 0.24	0.4	
Temperature (F°) or (C°)  60	.7 61.1	61.1	
pH 8.3	37 9.1	9.2	
Specific Conductivity (µmhos/cm) X/000 4.	17 4.50	4.67	
Dissolved Oxygen (mg/L)	14	<b>→</b>	
Turbidity/Color	yellow olive gre	en —>>	
	lone -	<u> </u>	
Dewatered?	Yo	$\rightarrow$	
for Sdoll	ITBI		
CHECKED BA.			DATE:

#### ATTACHMENT B

COPY OF LABORATORY REPORTS, CHROMATOGRAMS AND CHAIN-OF-CUSTODY FORM FOR GROUNDWATER SAMPLE

Tel: 707-792-1865 Fax: 707-792-0342

January 09, 1997

Mr. Jim Schollard Innovative Technical Solutions 2855 Mitchell Drive, Suite 118 Walnut Creek, CA 94598

RE: PACE Project Number: 707380

Client Project ID: 801 Maritime Street/202863

Dear Mr. Schollard:

Enclosed are the results of analyses for sample(s) received on December 27, 1996. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew

Project Manager

**Enclosures** 

Pace Analytical Services, Inc. 1455 McDowell Blvd. North, Suite D Petaluma, CA 94954

Tel: 707-792-1865

Fax: 707-792-0342 DATE: 01/09/97

PAGE: 1

Innovative Technical Solutions 2855 Mitchell Drive, Suite 118 Walnut Creek, CA 94598

PACE Project Number: 707380

Client Project ID: 801 Maritime Street/202863

Attn: Mr. Jim Schollard Phone: (510)256-8898

· · · · · · · · · · · · · · · · · · ·	0843172 RIP BLANK	~ /		Date Collect		2/27/96 2/27/96			
orrano dampie to:				auto necei	····				
Parameters		Results	Units	PRL	Analyzed	Method	Analys	t CAS#	Footnotes
GC Volatiles		•••••			******	***************************************	• • • • •	• • • • • • • • • • • • • • • • • • • •	*********
GAS/BTEX by CA LUFT. W	later								
Gasoline		ND	ug/L	50	01/06/97	CA LUFT	AMH		
Benzene		ND	ug/L	0.5	01/06/97	CA LUFT	AMH	71-43-2	
Toluene		ND	ug/L	0.5	01/06/97	CA LUFT	AMH	108-88-3	
Ethylbenzene		ND	ug/L	0.5	01/06/97	CA LUFT	AMH	100-41-4	
Xylene (Total)		ND	ug/L	1	01/06/97	CA LUFT	AMH	1330-20-7	
a.a.a-Trifluorotolue	ene (S)	104	X		01/06/97	CA LUFT	AMH	2164-17-2	
4-Bromofluorobenzene	e (S)	96	*		01/06/97	CA LUFT	AMH	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 1455 McDowell Blvd. North, Suite D Petaluma, CA 94954

Tel: 707-792-1865

Fax: 707-792-0342 DATE: 01/09/97

PAGE: 2

PACE Project Number: 707380

Client Project ID: 801 Maritime Street/202863

PACE Sample No: 70843180 Client Sample ID: MW-1			Date Collect Date Recei		2/27/96 2/27/96			
Parameters	Results	Units	PRL	Analyzed	Method	Analys	t CAS#	Footnotes
	•••••		• • • • • • • • • • • • • • • • • • • •	•••••	*************	• • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
GC ·· Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	180	ug/L	50	01/06/97	ca luft	AMH		
Benzene	30	ug/l.	0.5	01/06/97	CA LUFT	AMH	71-43-2	
Toluene	15	ug/L	0.5	01/06/97	CA LUFT	AMH	108-88-3	•
Ethylbenzene	5.8	ug/L	0.5	01/06/97	CA LUFT	AMH	100-41-4	
Xylene (Total)	26	ug/L	1	01/06/97	CA LUFT	amh	1330-20-7	
a,a,a.Trifluorotoluene (S)	101	X		01/06/97	CA LUFT	AMH	2164-17-2	
4-Bromofluorobenzene (S)	98	x		01/06/97	CA LUFT	AMH	460-00-4	
GC								
TPH by 8015M w/ silica gel	1							
Diesel Fuel	0.67	mg/L	0.05	01/08/97	EPA 8015M w/ SG	AMH	11.84.7	
n-Pentacosane (S)	69	**	****	01/08/97	EPA 8015M w/ SG	AMH	629-99-2	
Date Extracted	<b>5</b> 5	•		01/03/97	LITE OUTDIN MY DO	PALIL	023-33-E	
Date Laci deted				011 037 31				

## REPORT OF LABORATORY ANALYSIS

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Tel: 707-792-1865

Fax: 707-792-0342 DATE: 01/09/97

PAGE: 3

PACE Project Number: 707380

Client Project ID: 801 Maritime Street/202863

· · · · · · · · · · · · · · · · · · ·	70843198 QC-1		<del>,</del>	Date Collect Date Recei		2/27/96 2/27/96			
Parameters		Results	Units	PRL.	Anal yzed	Method	Analys	t CAS#	Footnotes
					•••••		• • • • •	•••••	••••••
GC Volatiles									
GAS/8TEX by CA LUFT,	Water								
Gasoline		180	ug/L	50	01/06/97	CA LUFT	AMH		
Benzene		30	ug/L	0.5	01/06/97	CA LUFT	AMH	71-43-2	
Toluene		15	ug/L	0.5	01/06/97	CA LUFT	AMH	108-88-3	
Ethylbenzene		5.6	ug/L	0.5	01/06/97	CA LUFT	AMH	100-41-4	
Xylene (Total)		25	ug/L	1	01/06/97	CA LUFT	AMH	1330-20-7	
a,a,a-Trifluorotolu	ene (S)	100	X		01/06/97	CA LUFT	AMH	2164-17-2	
4-Bromofluorobenzen	e (S)	97	x		01/06/97	CA LUFT	AMH	460-00-4	
GC									
TPH by 8015m w/ silic	a qel								
Diesel Fuel	· ·	1.0	mg/L	0.05	01/08/97	EPA 8015M w/ SG	AMH	11-84-7	
n-Pentacosane (S)		72	X		01/08/97	EPA 8015M w/ SG	AMH	629-99-2	
Date Extracted					01/03/97				

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Tel: 707-792-1865

Fax: 707-792-0342 DATE: 01/09/97

PAGE: 4

PACE Project Number: 707380

Client Project ID: 801 Maritime Street/202863

#### PARAMETER FOOTNOTES

ND Not Detected Not Calculable NC PRL PACE Reporting Limit (S) Surrogate

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 1455 McDowell Blvd. North, Suite D Petaluma, CA 94954

Tel: 707-792-1865

Fax: 707-792-0342

DATE: 01/09/97 PAGE: 5

QUALITY CONTROL DATA

Innovative Technical Solutions 2855 Mitchell Drive, Suite 118

Walnut Creek, CA 94598

PACE Project Number: 707380

Client Project ID: 801 Maritime Street/202863

Attn: Mr. Jim Schollard Phone: (510)256-8898

QC Batch ID: 20455

QC Batch Method: EPA 3520

Date of Batch: 01/03/97

Analysis Method: EPA 8015M w/ SG

Analysis Description: TPH by 8015M w/ silica gel

Associated PACE Samples: 70843180 70843198

METHOD BLANK: 70848882

Associated PACE Samples:

Parameter

Diesel Fuel n-Pentacosane (S)

70843180	70843198 Method Blank		
Units	Result	PRL	Footnotes
 		• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
mg/L	0.10	0.05	1
x	60		

LABORATORY CONTROL SAMPLE & L	CSD: 70848916	7084892	24			Spike		· · · · · · · · · · · · · · · · · · ·
		Spike	LC\$	Spike	LCSD	Dup		
Parameter	Units	Conc.	Result	∦ Rec	Result	∦ Rec	RPD	Footnotes
								******
Diesel Fuel	mg/L	1.0	0.3528	35.3	0.5342	53.4	41	2
n-Pentacosane (S)				43.9		79.8		

## REPORT OF LABORATORY ANALYSIS

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Tel: 707-792-1865

Pax: 707-792-0342

PAGE: 6

QUALITY CONTROL DATA

Innovative Technical Solutions 2855 Mitchell Drive, Suite 118

Walnut Creek, CA 94598

PACE Project Number: 707380

Client Project IO: 801 Maritime Street/202863

Attn: Hr. Jim Schollard Phone: (510)256-8898

QC Batch ID: 20459

QC Batch Method: CA LUFT

Date of Batch: 01/03/97

Analysis Method: CA LUFT

Associated PACE Samples:

Analysis Description: GAS/BTEX by CA LUFT, Water

70843172 70843180 70843198

METHOD BLANK: 70849070

Associated PACE Samples:

	70843172	70843180 Method Blank	70843198	
Parameter	Units	Result	PRL	Footnotes
Gasoline	ug/L	ND	50	
Benzene	ug/L	ND	0.5	
Toluene	ug/L	ND	0.5	
Ethylbenzene	ug/L	ND	0.5	
Xylene (Total)	ug/L	ND	1	
a.a.a-Trifluorotoluene (S)	X	102		
4-Bromofluorobenzene (S)	x	94		

MATRIX SPIKE & MATRIX SPIKE D	UPLICATE: 7084	9591 708496	09	Matrix		Matrix	Spike			
Parameter	Units	70843180	Spike Conc.	Spike Result	Spike % Rec	Sp. Dup. Result	Dup ≵ Rec	RPD	Footnotes	
					• • • • •					
Benzene	ug/L	30.20	100	124.6	94.4	122.0	91.8	3		
Toluene	ug/L	15.36	100	112.3	96.9	109.8	94.4	3		
Ethylbenzene	ug/L	5.796	100	108.1	102	105.2	99.4	3		
Xylene (Total)	ug/L	25.52	300	341.3	105	333.3	103	3		
a,a,a·Trifluorotoluene (S)					103		101			
4-8romofluorobenzene (S)					102		98.6			

### REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 1455 McDowell Blvd. North, Suite D Petaluma, CA 94954

Tel: 707-792-1865

DATE: 01/09/97

PAGE: 7

PACE Project Number: 707380

Client Project ID: 801 Maritime Street/202863

LABORATORY CONTROL SAMPLE & LC	SD: 70849104	7084911	70849112					
_		Spike	LCS	Spike		Dup		
Parameter	Units	Conc.	Result	* Rec	Result	∦ Rec	RPD	Footnotes
Benzene	ug/L	100	101.2	101	100.8	101	0	
Toluene	ug/L	100	104.2	104	103.4	103	1	
Ethylbenzene	ug/L	100	108.7	109	107.9	108	1	
Xylene (Total)	ug/L	300	337.8	113	335.9	112	1	
a,a,a-Trifluorotoluene (S)				102		101		
4-Bromofluorobenzene (S)				107		105		

QUALITY CONTROL DATA

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Tel: 707-792-1865

DATE: 01/09/97

PAGE: 8

PACE Project Number: 707380

Client Project ID: 801 Maritime Street/202863

#### QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND Not Detected

NC Not Calculable

PRL PACE Reporting Limit

RPD Relative Percent Difference

(S) Surrogate

[1] Chromatograpic pattern matches known laboratory contaminant.

[2] RPD value was outside control limits, however both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

## REPORT OF LABORATORY ANALYSIS

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#### INNOVATIVE TECHNICAL SOLUTIONS, Inc.



2855 Mitchell Drive, Suite 118
Walnut Creek, California 94598
(510) 256-8898 (Tel), (510) 256-8998 (Fax)

707380

PROJECT NAME: FOTT	of Oak	land-8	01 Her	time						_						_				·	DATE: 12/24/16
PROJECT NAME: POT of Oakland - 801 Maritime  PROJECT NUMBER: 95-1/3-22  CHAIN OF CUSTODY  SITE LOCATION: 801 Maritime Dr., Oakland CA  ANALYSIS																					
SITE LOCATION: 80	MA	ritim	e Ur.	, 001	E/and	CA															
													_	Pace An	alutical						
				SS			020		A. (2.) de					Purgeable Halocarbons -601/8010	1					Pace An	
			!	INE	RS		15/8		30					-60			}			peraic	ma CA
				NTA	SIN	×	)8 - 2	015	anup		anup		5520	rbons	_	0	(u;				
<u>.</u>	HE A			FCC	INC.	ATR	BTE	8-19	e-8	~	[ž 2	_	se -	aloca	8240	51827	ls Pb, 2	stals			
E LE	ΙŒ			ER O	OF C	NE M	. Gas/	Dies	Dies ica G	801	8015 ica G	- 418	Gree	ble H	-624/	s -62	Meta r, Ni.	IJ M			
SAMPLE I.D.	SAMPLE DEPTH	DATE	TIME	NUMBER OF CONTAINERS	LYPE OF CONTAINERS	SAMPLE MATRIX	PH as Gas/BTEX - 8015/8020	IPH as Diesel - 8015	TPH as Diesel - 8015 Av (w/ Silica Gel Cleanup)	FEPH - 8015	TEPH-8015 M (w/ Silica Gel Cleanup)	TRPH - 418.1	Oil and Grease - 5520	urgea	VOCs -624/ 8240	SVOCs -625/8270	LUFT Metals (Cd, Cr, Ni, Pb, Zn)	CAM 17 Metals		ODECIAL INCTI	RUCTIONS/COMMENTS
Trip Blank	<u>````</u>	12/27/0	<del>_</del>	2	Vois	W	7	Ε.	112	L	F 5	<u> </u>	0	<u></u>		50		U	_	70813172	
MW-1		721/9	1040	3	Voas	W	$\Diamond$	<b></b>	1											70843180	
1			V	2	12 A	W			X											V	
QC-1	_			3	Vas	W	X	ļ			ļ	<u> </u>				L				7084319	<u> </u>
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mom		R OF CON	TANERC	12	TOT	AL TESTS	3	-	2	<u> </u>	+		-	-		-	1	├-	<del>                                     </del>		
SAMPLED BY: 519		<u> </u>	IAINERS	112	101.	SPECIAL		RUCI		OMN	MENTS:	 : _					.1.	<u> </u>			
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RELINQUISHED BY:	Sim	Sch	Mark	This	LUG	RELINQ	_		7	N	ALL		<u>′5</u>			_			ЛЅНЕD В	Y:	
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	Company	,	Date :	and Time					Con	рапу			Date	and Tu	ne					Company	Date and Tillie
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Data File: /chem/70gce02.i/010897.b/fidf0002.d

Date: 08-JAN-1997 16:53

Client ID:

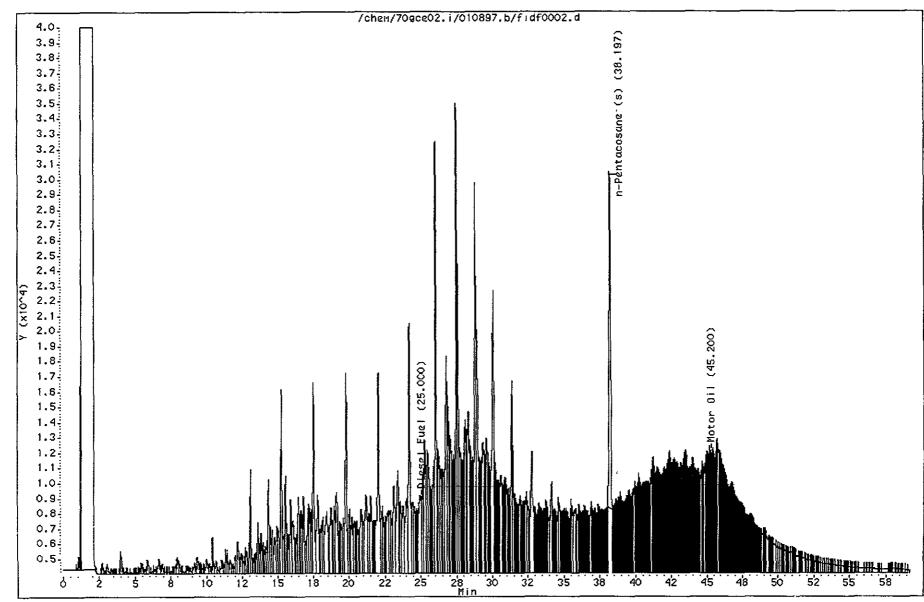
Sample Info: CCAL-DIESEL/Mo

Column phase: RESTEK XTI-5

Instrument: 70gce02.i

Misc Info: 90C,,,,,2,6,CCAL,,,dmof.sub,dmor.sub

Operator: AMH



Data File: /chem/70gce02.i/010897.b/fidf0003.d

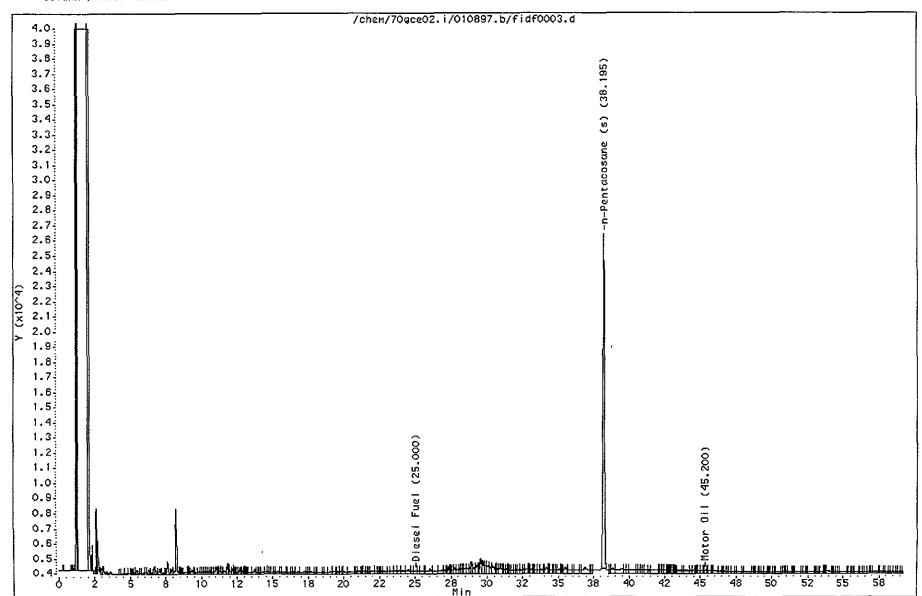
Date: 08-JAN-1997 17:59

Client ID:

Sample Info: BLANK-water Volume Injected (uL): 1.0 Column phase: RESTEK XTI-5 Instrument: 70gce02.i

Misc Info: 70848882,,1,20630,1,3,,BLANK,,,dmof.sub,dmor.sub

Operator: AMH



Data File: /chem/70gce02.i/010897.b/fidf0006.d

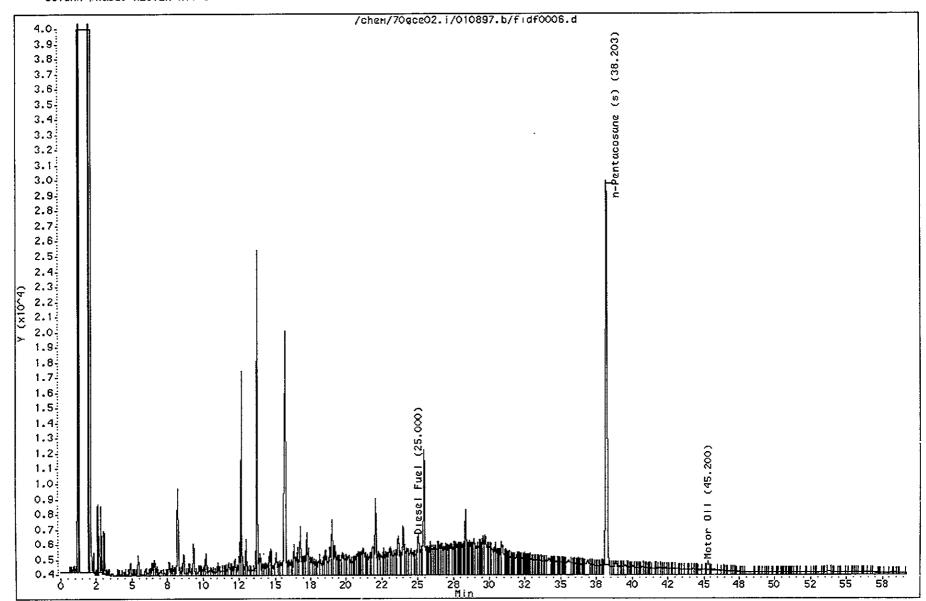
Date: 08-JAN-1997 21:20

Client ID:

Sample Info: SAMPLE-water Volume Injected (uL): 1.0 Column phase: RESTEK XTI-5 Instrument: 70gce02.

Misc Info: 70843180,,1,20630,1,0,,SAMPL,,,dmof.sub,dmor.sub

Operator: AMH



Data File: /chem/70gce02.i/010897.b/fidf0007.d

Date: 08-JAN-1997 22:26

Client ID:

Sample Info: SAMPLE-water

Volume injected (uL): 1.0

Column phase: RESTEK XTI-5

Instrument: 70gce02.i

Misc Info: 70843198,,1,20630,1,0,,SAMPL,,,dmof.sub,dmor.sub

Operator: AMH

