



96 DEC 17 PM 4:10

December 12, 1996

Project No. 95-113.03

Mr. Jeff Rubin
Port of Oakland
530 Water Street
Oakland, California 94604

Groundwater Monitoring and Sampling Report
Tanks MF25 and MF26, United Airlines Hangar-Economy Parking Lot Site
Metropolitan Oakland International Airport (MOIA)
1100 Airport Drive
Oakland, California
(Work Order No. 028691)

Dear Mr. Rubin:

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 October 24, 1996 at the United Airlines Hangar-Economy Parking Lot Site, located at 1100 Airport Drive at the Metropolitan Oakland International Airport (MOIA) in Oakland, California. A site location map is shown on Figure 1.

The scope of work included monitoring and sampling of three groundwater monitoring wells, MW-1, MW-2, and MW-3. The monitoring wells are located in the vicinity of two former underground storage tanks: a 500-gallon oil/solvent tank (MF-25) and a 3,000-gallon oil/solvent tank (MF-26), removed in March 1992.

SAMPLING OF MONITORING WELLS

Groundwater monitoring and sampling was performed on October 24, 1996. The monitoring wells were initially gauged for depth to water and checked for the presence of separate phase hydrocarbons. Separate phase hydrocarbons were observed in two monitoring wells, MW-2 and MW-3. Depth to water and product thickness measurements were recorded on Monitoring Well

Purge and Sample Forms. Copies of the Monitoring Well Purge and Sample Forms are provided in Attachment A.

After depth to water measurements were recorded, monitoring well MW-1 with no separate phase hydrocarbons 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 a Monitoring Well Purge and Sample Form.

A groundwater sample from monitoring well MW-1 was collected 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 in properly labeled drums onsite.

GROUNDWATER LEVELS IN MONITORING WELLS

Depth to water results are summarized in Table 1. Groundwater elevations were calculated using the measured depth to water and survey elevations of top of casing, and are 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 elevation contours and groundwater flow direction for the site. The groundwater flow direction is to the west, with a gradient of approximately 0.003 ft/ft.

LABORATORY ANALYSIS OF GROUNDWATER SAMPLES

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

Monitoring Well	Analyses						
	ID	TPHg ⁽¹⁾	BTEX ⁽²⁾	TPHj ⁽³⁾	TPHd ⁽⁴⁾	TPHmo ⁽⁵⁾	VOCs ⁽⁶⁾
MW-1	x	x	x	x	x	x	x
MW-2	x	x	x	x	x	x	x
MW-3	x	x	x	x	x	x	x

⁽¹⁾TPH as gasoline by California LUFT Method

⁽²⁾Benzene, toluene, ethylbenzene, and xylenes by California LUFT Method

⁽³⁾TPH as jet fuel by Modified EPA Method 8015

⁽⁴⁾TPH as diesel by Modified EPA Method 8015

⁽⁵⁾TPH as motor oil by Modified EPA Method 8015

⁽⁶⁾VOCs by EPA Method 8010

⁽⁷⁾Total dissolved solids by EPA Method 160.1

Laboratory results for the groundwater sample are summarized in Table 2, and shown in Figure 3. Copies of the laboratory results and chain-of-custody are provided in Attachment B.

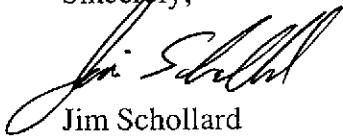
FINDINGS

Results of the October 24, 1996 groundwater monitoring and sampling are summarized below:

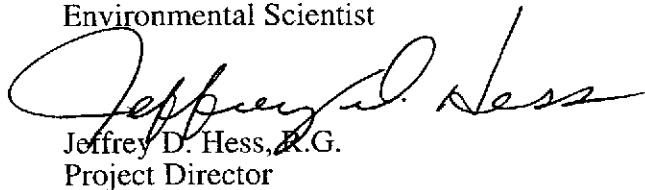
- Separate phase hydrocarbons were observed in two monitoring wells, MW-2 and MW-3, at a thickness of 0.16 and 0.02 feet, respectively.
- TPHg was reported at a concentration of 57 µg/l in MW-1.
- Benzene and xylenes were reported at concentrations of 1.9 µg/l and 1.3 µg/l in MW-1.
- Toluene and ethylbenzene were reportedly not detected in monitoring well MW-1.
- TPHd was reported at a concentration of 250 µg/l in MW-1.
- TPHj and TPHmo were reportedly not detected in monitoring well MW-1
- 1,1-Dichloroethane and trichloroethene were reported in monitoring well MW-1 at concentrations of 12 µg/l and 1.4 µg/l, respectively.

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

Sincerely,



Jim Schollard
Environmental Scientist



Jeffrey D. Hess, P.G.
Project Director

Attachments

TABLE 1

GROUNDWATER ELEVATIONS
TANKS MF25 AND MF26 (UNITED AIRLINES HANGAR-ECONOMY PARKING LOT SITE)
METROPOLITAN OAKLAND INTERNATIONAL AIRPORT (MOIA)
1100 AIRPORT DRIVE
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	6.91	5/15/92	3.10	-	3.81	1
		8/7/92	3.20	-	3.71	1
		11/24/92	4.04	-	2.87	1
		2/12/93	-	-	-	1
		3/11/93	2.09	-	4.82	1
		5/17/93	3.14	-	3.77	1
		8/3/93	3.15	-	3.76	1
		11/25/93	3.59	-	3.32	1
		3/24/94	3.21	-	3.70	1
		5/9/94	2.99	-	3.92	1
		8/29/94	3.34	-	3.57	1
		9/27/94	3.51	-	3.40	1
		4/25/95	2.38	-	4.53	1
		8/11/95	3.08	-	3.83	1
		11/3/95	3.52	-	3.39	1
MW-2	6.63	6/19/96	2.93	-	3.98	
		10/24/96	3.52	-	3.39	
		4/25/95	2.20	-	4.43	1
		8/11/95	3.11	-	3.84	1
		11/3/95	3.28	-	3.35	1
MW-3	7.36	6/19/96	2.53	0.05	4.14	2
		10/24/96	3.44	0.16	3.31	2
		4/25/95	2.78	-	4.58	1
		8/11/95	3.62	-	4.02	1
		11/3/95	4.05	-	3.63	1
		6/19/96	3.17	0.01	4.20	2
		10/24/96	4.02	0.02	3.36	2

1 Data from Table 1, Results of Groundwater Sampling Analysis for Petroleum Hydrocarbons, BTEX, and TDS, Port of Oakland, Oakland International Airport, United Airlines Hangar Area-Economy Parking Lot Site, dated February 21, 1996, by Alisto Engineering Group.

2 Groundwater elevation calculated assuming a specific gravity of 0.75 for product.

TABLE 2

SUMMARY OF LABORATORY RESULTS

TANKS MF25 AND MF26 (UNITED AIRLINES HANGAR AREA-ECONOMY PARKING LOT SITE)

METROPOLITAN OAKLAND INTERNATIONAL AIRPORT (MOIA)

1100 AIRPORT DRIVE

OAKLAND, CALIFORNIA

Monitoring Well ID	Date of Sampling	TPHg ($\mu\text{g/l}$)	B ($\mu\text{g/l}$)	T ($\mu\text{g/l}$)	E ($\mu\text{g/l}$)	X ($\mu\text{g/l}$)	TPHj ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	TOG ($\mu\text{g/l}$)	TDS (mg/l)	Note
MW-1	5/15/92	<50	<0.4	<0.3	<0.3	<0.4	-	-	-	<5,000	5,900	1
	8/7/92	<50	<0.4	<0.3	<0.3	<0.4	800	-	-	<5,000	-	1
	11/24/92	<50	<0.4	<0.3	<0.3	<0.4	<50	-	-	<5,000	-	1
	2/12/93	<50	<0.4	<0.3	<0.3	<0.4	-	-	-	<5,000	-	1
	5/17/93	<50	<0.4	<0.3	<0.3	<0.4	-	-	-	<5,000	4,100	1
	8/3/93	<50	<0.5	<0.5	<0.5	<0.5	-	5,200	-	<5,000	7,700	1
	11/25/93	70	<0.5	<0.5	<0.5	0.6	-	-	-	<5,000	3,790	1
	5/9/94	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	<930	9,600	1
	8/29/94	<50	<0.5	<0.5	2.7	<0.5	-	-	-	<1,000	3,900	1
	4/25/95	<50	<5	<5	<5	<5	<50	1,400	610	-	4,000	1
	8/11/95	<50	<0.4	<0.3	<0.3	<0.4	<50	1,900	1,200	-	8,500	1
	11/3/95	<50	0.4	0.4	<0.3	<0.4	<50	4,200	1,800	-	6,600	1
	6/19/96	<50	0.99	<0.5	1.1	<1.0	<500	11,000	820	-	3,040	
	10/24/96	57	1.9	<0.5	<0.5	1.3	<500	250	<250	-	3090	
MW-2	4/25/95	5,200	340	570	110	580	13,000	<10,000	19,000	-	1,700	1
	8/11/95	5,500	320	680	110	510	7,900	<8,000	20,000	-	2,500	1
	11/3/95	3,800	200	400	27	360	11,000	<11,000	4,200	-	2,000	1
	6/19/96	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	-	- ²	
	10/24/96	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	-	- ²	
MW-3	4/25/95	7,200	150	600	100	580	38,000	<40,000	31,000	-	5,600	1
	8/11/95	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	-	- ²	1
	11/3/95	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	-	- ²	1
	6/19/96	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	-	- ²	
	10/24/96	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	-	- ²	

¹ Data from Table 1, Results of Groundwater Sampling Analysis for Petroleum Hydrocarbons, BTEX, and TDS, Port of Oakland, Oakland International Airport, United Airlines Hangar Area-Economy Parking Lot Site, dated February 21, 1996, by Alisto Engineering Group.

² Not sampled due to presence of free product in monitoring well.

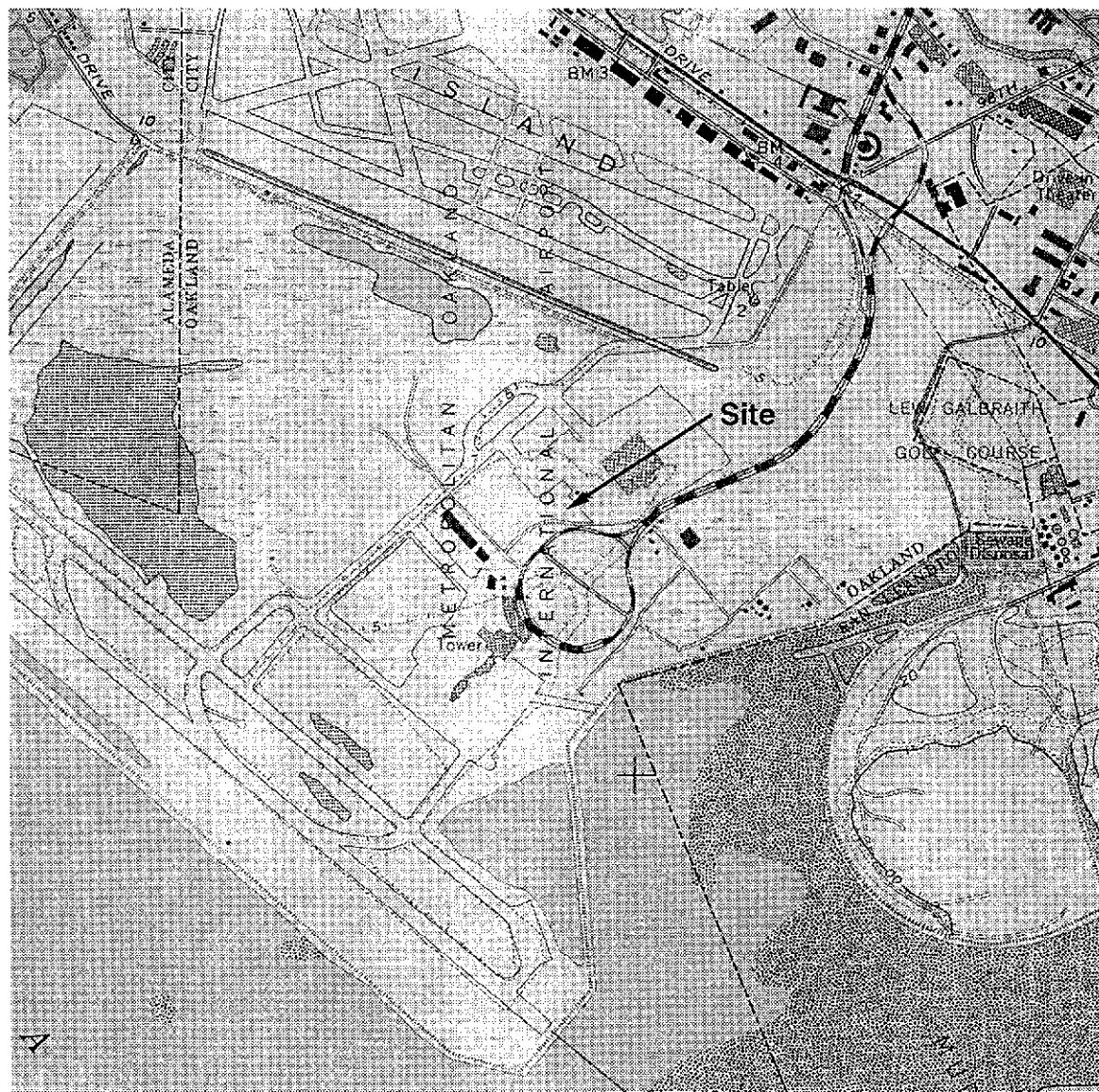
TABLE 3

**SUMMARY OF LABORATORY RESULTS FOR VOLATILE ORGANIC COMPOUNDS
TANKS MF25 AND MF26 (UNITED AIRLINES HANGAR AREA-ECONOMY PARKING LOT SITE)
METROPOLITAN OAKLAND INTERNATIONAL AIRPORT (MOIA)
1100 AIRPORT DRIVE
OAKLAND, CALIFORNIA**

Monitoring Well ID	Date of Sampling	Acetone ($\mu\text{g/l}$)	2-Butanone ($\mu\text{g/l}$)	Chloroform ($\mu\text{g/l}$)	1,1-DCA ($\mu\text{g/l}$)	1,2-DCE ($\mu\text{g/l}$)	4-Methyl-2-pentanone ($\mu\text{g/l}$)	1,1,1-TCA ($\mu\text{g/l}$)	TCE ($\mu\text{g/l}$)	PCE ($\mu\text{g/l}$)	Note
MW-1	11/24/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
	2/12/93	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
	5/17/93	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
	8/3/93	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
	11/25/93	ND	ND	ND	ND	6	ND	ND	ND	ND	1
	5/9/94	ND	ND	ND	ND	ND	ND	ND	ND	5.5	1
	9/27/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
	4/25/95	<20	<20	<5	<5	<5	<20	-	-	<5	1
	8/11/95	-	-	<0.5	4.3	13	-	2	1.8	0.6	1
	11/3/95	-	-	<0.5	1.3	3.7	-	0.6	0.5	<0.5	1
MW-2	6/19/96	-	-	<0.5	5.4	<0.5	-	<0.5	1.2	<0.5	
	10/24/96	-	-	<0.5	12	<1.0	-	<0.5	1.4	<0.5	
	4/25/95	<200	200	<50	50	<50	<200	-	-	<50	1
	8/11/95	-	-	5	79	26	-	20	4	9	1
	11/3/95	-	-	<0.5	73	24	-	4.8	6.7	6.8	1
MW-3	6/19/96	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	
	10/24/96	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	
	4/25/95	300	300	-	30	<30	200	-	-	<30	1
	8/11/95	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	1
	11/3/95	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	1
MW-3	6/19/96	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	
	10/24/96	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	- ²	

1 Data from Table 1, Results of Groundwater Sampling Analysis for Petroleum Hydrocarbons, BTEX, and TDS, Port of Oakland, Oakland International Airport, United Airlines Hangar Area-Economy Parking Lot Site, dated February 21, 1996, by Alisto Engineering Group.

2 Not sampled due to presence of free product in monitoring well.



0 1,000 Feet 2,000 Feet

Approximate Scale

FIGURE 1

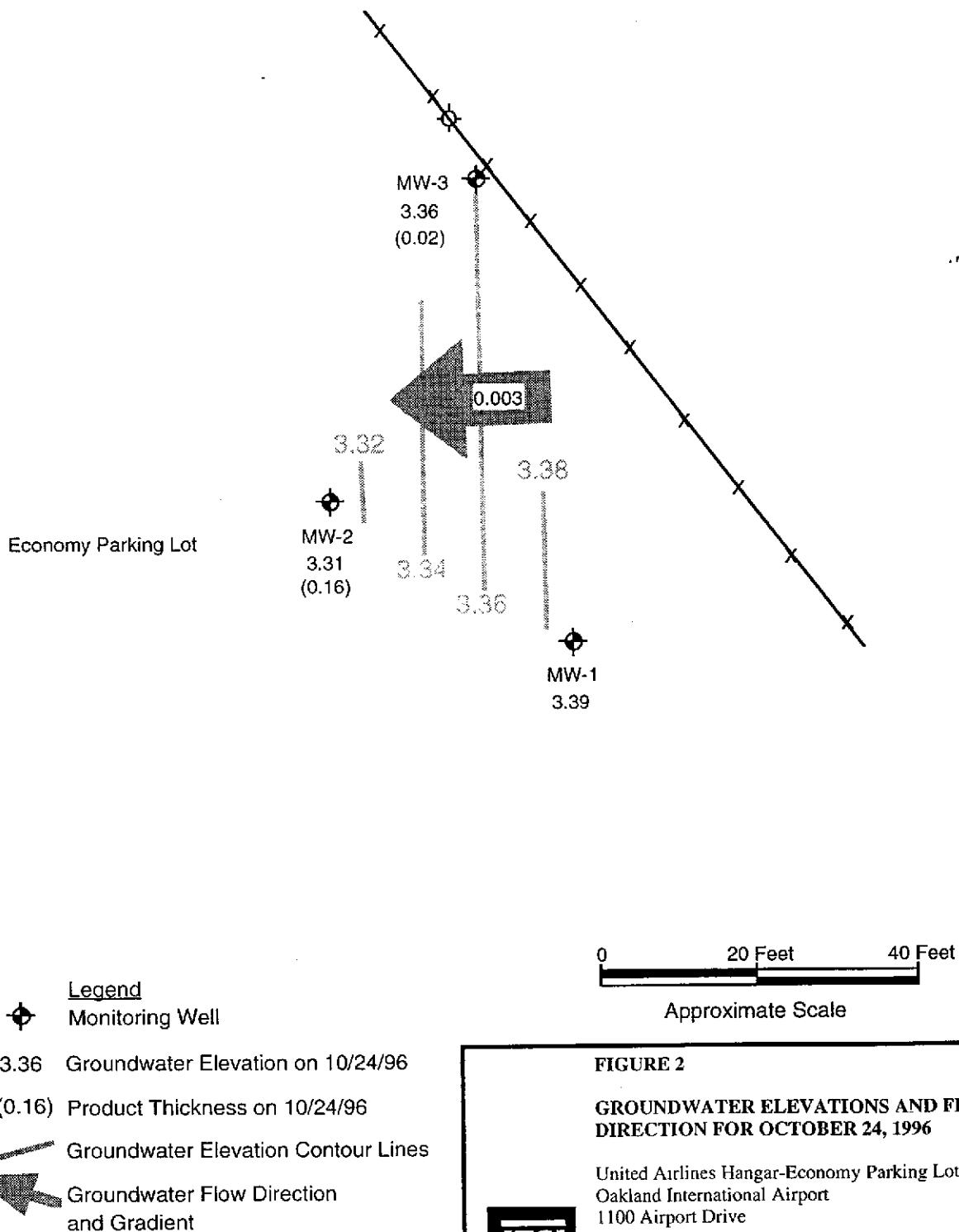
SITE LOCATION

United Airlines Hangar-Economy Parking Lot Site
Oakland International Airport
1100 Airport Drive



PORT OF OAKLAND

INNOVATIVE TECHNICAL SOLUTIONS, INC.

**FIGURE 2**

GROUNDWATER ELEVATIONS AND FLOW DIRECTION FOR OCTOBER 24, 1996

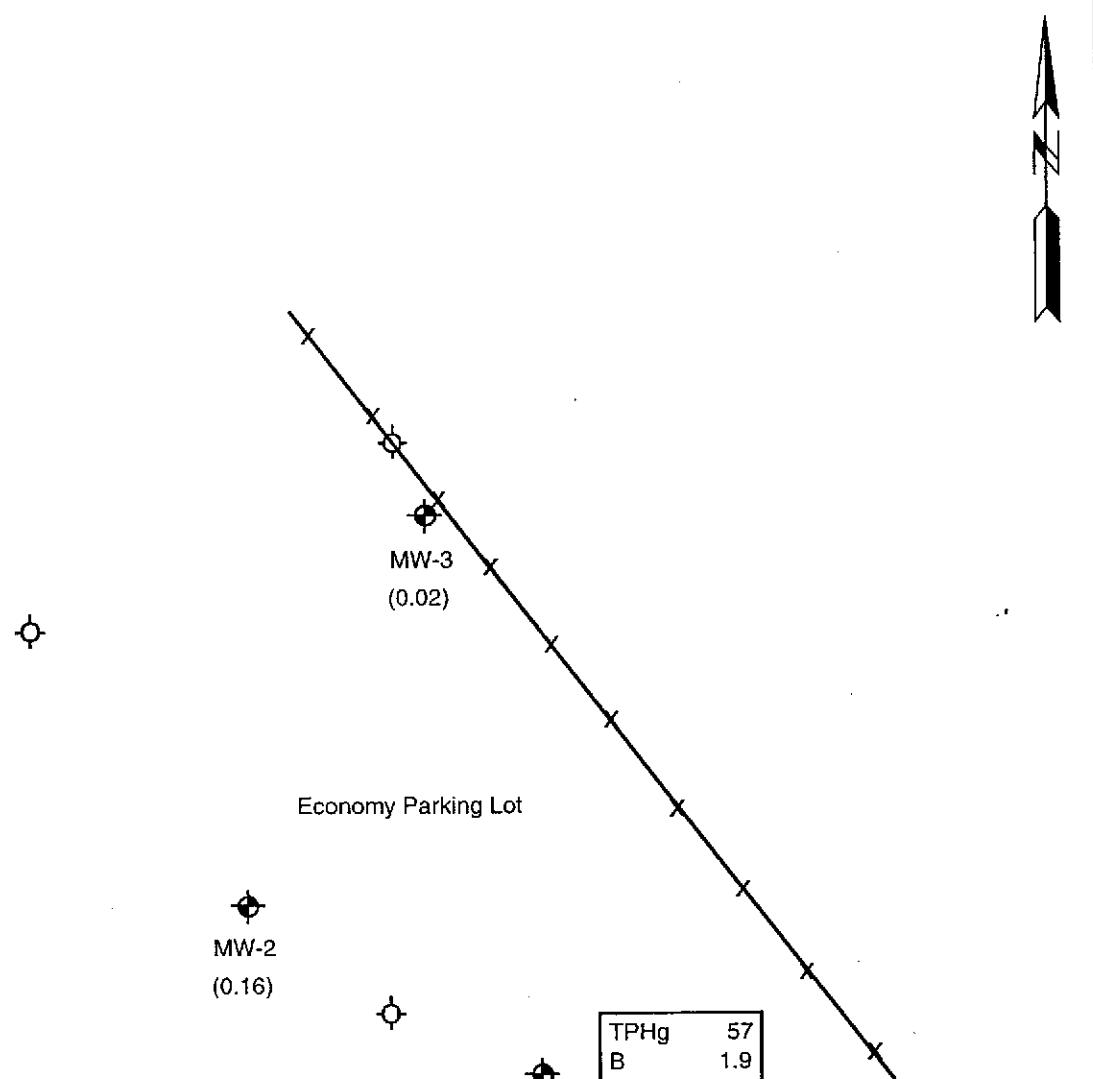
United Airlines Hangar-Economy Parking Lot Site
Oakland International Airport
1100 Airport Drive



PORT OF OAKLAND

INNOVATIVE TECHNICAL SOLUTIONS, INC.

Source: Adapted from Figure 2, Potentiometric Groundwater Elevation Contour Map, November 3, 1995, Alisto Engineering Group.

Legend

Monitoring Well

0.16 Product Thickness on 10/24/96

TPHg	57
B	1.9
T	<0.5
E	<0.5
X	1.3
TPHj	<500
TPHd	250
TPHmo	<250
1,1-DCA	12
TCE	1.4

Groundwater Concentrations in $\mu\text{g/l}$ on 10/24/96

- TPHg - TPH as gasoline
- B - Benzene
- T - Toluene
- E - Ethylbenzene
- X - Total xylenes
- TPHj - TPH as jet fuel
- TPHd - TPH as diesel
- TPHmo - TPH as motor oil
- 1,1-DCA - 1,1-Dichloroethane
- TCE - Trichloroethene

TPHg	57
B	1.9
T	<0.5
E	<0.5
X	1.3
TPHj	<500
TPHd	250
TPHmo	<250
1,1-DCA	12
TCE	1.4

0 20 Feet 40 Feet

Approximate Scale

FIGURE 3

CONCENTRATIONS OF PETROLEUM
HYDROCARBONS AND VOCs IN
GROUNDWATER ON OCTOBER 24, 1996

United Airlines Hangar-Economy Parking Lot Site
Oakland International Airport
1100 Airport Drive



PORT OF OAKLAND

INNOVATIVE TECHNICAL SOLUTIONS, INC.

ATTACHMENT A

COPIES OF MONITORING WELL PURGE AND SAMPLE FORMS

**MONITORING WELL
PURGE AND SAMPLE FORM**

PROJECT NAME: Port of Oakland - Economy parking PROJECT NO.: 95-113.03

WELL NO.: MW-1 TESTED BY: J. Schollard DATE: 10/21/96

Measuring Point Description: notch @ t.o.c. Static Water Level (ft.): 3.52'

Total Well Depth (ft.): 11.56 Sample Method: disposable teflon baile

Water Level Measurement Method: Solinst interface probe Time Sampled: ~10.5 16.35

Purge Method: disposable teflon baile Sample Depth (ft.): ~10.5'

Time Start Purge: 1615 Field Filtering: NA

Time End Purge: 1626 Field Preservation: blue ice

Comments: well dewatered; collected QC-1 duplicate sample @ 16.45

Well Volume Calculation (fill in before purging)	Total Depth (ft)	Depth to Water (ft)	Water Column (ft)	Multiplier for Casing Diameter (in)			Casing Volume (gal)
				2	4	6	
	<u>11.56</u>	<u>3.52</u>	<u>8.04</u>	x <u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>1.29</u> <u>3 vols = 3.86</u>)
Time	<u>1617</u>	<u>1620</u>	<u>1626</u>				
Volume Purged (gals)	<u>1.3</u>	<u>1.3</u>	<u>1.3</u>				
Cumulative Volume Purged (gals)	<u>1.3</u>	<u>2.6</u>	<u>3.90</u>				
Cumulative Number of Casing Volumes	<u>1.01</u>	<u>2.02</u>	<u>3.03</u>				
Purge Rate (gpm)	<u>0.65</u>	<u>0.43</u>	<u>0.21</u>				
Temperature (F°) or (C°)	<u>32.1</u>	<u>27.3</u>	<u>26.1</u>				
pH	<u>6.75</u>	<u>6.56</u>	<u>6.58</u>				
Specific Conductivity (µmhos/cm) mS/cm	<u>7.49</u>	<u>10.3</u>	<u>10.3</u>				
Dissolved Oxygen (mg/L)	<u>NA</u>	<u>NA</u>	<u>NA</u>				
Turbidity/Color (NTU)	<u>clear</u>		<u>cloudy/tinted grey</u>				
Odor	<u>None</u>	<u>None</u>	<u>None</u>				
Dewatered?	<u>No</u>	<u>No</u>	<u>Yes</u>				

CHECKED BY: _____ DATE: _____

**MONITORING WELL
PURGE AND SAMPLE FORM**

PROJECT NAME: Port of Oakland - Economy parking PROJECT NO.: 95-113.03
 WELL NO.: MW-2 TESTED BY: J. Schollard DATE: 1/24/96

Measuring Point Description: low pt. of cut on casing Static Water Level (ft.): OTP = 3.28'
DTW = 3.44'
 Total Well Depth (ft.): 111 Sample Method: Not Sampled*
 Water Level Measurement Method: Schmitz interface probe Time Sampled: "
 Purge Method: NA Sample Depth (ft.): "
 Time Start Purge: " Field Filtering: NA
 Time End Purge: " Field Preservation: "

Comments: existing well cap broken; replaced well cap. Moderate potassium odor upon opening well cap. Brown oily residue found on probe. Well not purged or sampled due to presence of free product

Well Volume Calculation (fill in before purging)	Total Depth (ft)	Depth to Water (ft)	=	Water Column (ft)	Multiplier for Casing Diameter (in)			Casing Volume (gal)
					x	2	4	
					0.16	0.64	1.44	

Time								
Volume Purged (gals)								
Cumulative Volume Purged (gals)								
Cumulative Number of Casing Volumes								
Purge Rate (gpm)								
Temperature (F°) or (C°)								
pH								
Specific Conductivity (µmhos/cm)								
Dissolved Oxygen (mg/L)								
Turbidity/Color (NTU)								
Odor								
Dewatered?								

N.A.

CHECKED BY: _____ DATE: _____

**MONITORING WELL
PURGE AND SAMPLE FORM**

PROJECT NAME: Port of Oakland - Economy Tank PROJECT NO.: 95-113.03

WELL NO.: MW-3 TESTED BY: J. Schallard DATE: 10/24/96

Measuring Point Description: notch on T.O.C. Static Water Level (ft.): DTP = 4.00' DTW = 4.02'

Total Well Depth (ft.): N.D. Sample Method: Not Sampled +

Water Level Measurement Method: Solinst interval probe Time Sampled: "

Purge Method: N.A. Sample Depth (ft.): "

Time Start Purge: " Field Filtering: N.A.

Time End Purge: " Field Preservation: "

Comments: existing locking well cap broken; replaced. Moderate petroleum odor upon removing well cap; brown oily residue on probe. Well not purged or sampled due to presence of free product.

Well Volume Calculation (fill in before purging)	Total Depth (ft)	Depth to Water (ft)	Water Column (ft)	Multiplier for Casing Diameter (in)			Casing Volume (gal)
				x	2	4	
				=	0.16	0.64	

Time							
Volume Purged (gals)							
Cumulative Volume Purged (gals)							
Cumulative Number of Casing Volumes							
Purge Rate (gpm)							
Temperature (F°) or (C°)							
pH							
Specific Conductivity (μmhos/cm)							
Dissolved Oxygen (mg/L)							
Turbidity/Color (NTU)							
Odor							
Dewatered?							

J. Schallard ITSI

CHECKED BY: _____ DATE: _____

ATTACHMENT B

**COPIES OF LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORM
FOR GROUNDWATER SAMPLES**

Pace Analytical

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

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

November 08, 1996

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

RE: PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oakland

Dear Mr. Schollard:

Enclosed are the results of analyses for sample(s) received on October 24, 1996. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Ron Chew
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

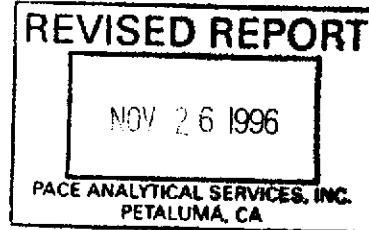
DATE: 11/08/96
PAGE: 1

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

PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oaklan

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

PACE Sample No:	70773437			Date Collected:	10/24/96			
Client Sample ID:	MW-1			Date Received:	10/24/96			
Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Wet Chemistry								
Total Dissolved Solids								
Total Dissolved Solids	3090	mg/L	5	11/01/96	CA LUFT	LMD		
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	57	ug/L	50	11/01/96	CA LUFT	AMH		
Benzene	1.9	ug/L	0.5	11/01/96	CA LUFT	AMH	71-43-2	
Toluene	ND	ug/L	0.5	11/01/96	CA LUFT	AMH	108-88-3	
Ethylbenzene	ND	ug/L	0.5	11/01/96	CA LUFT	AMH	100-41-4	
Xylene (Total)	1.3	ug/L	1	11/01/96	CA LUFT	AMH	1330-20-7	
a,a,a-Trifluorotoluene (S)	95	%		11/01/96	CA LUFT	AMH	2164-17-2	
4-Bromofluorobenzene (S)	93	%		11/01/96	CA LUFT	AMH	460-00-4	
Volatile Halogenated Organics								
Chloromethane	ND	ug/L	0.8	11/04/96	EPA 8010	ads	74-87-3	
Bromomethane	ND	ug/L	3	11/04/96	EPA 8010	ads	74-83-9	
Vinyl Chloride	ND	ug/L	1.8	11/04/96	EPA 8010	ads	75-01-4	
Chloroethane	ND	ug/L	5.2	11/04/96	EPA 8010	ads	75-00-3	
Methylene Chloride	ND	ug/L	2.5	11/04/96	EPA 8010	ads	75-69-4	
Trichlorofluoromethane	ND	ug/L	5	11/04/96	EPA 8010	ads	75-35-4	
1,1-Dichloroethene	ND	ug/L	1.3	11/04/96	EPA 8010	ads	75-34-3	
1,1-Dichloroethane	12	ug/L	0.7	11/04/96	EPA 8010	ads	156-60-5	
trans-1,2-Dichloroethene	ND	ug/L	1	11/04/96	EPA 8010	ads	67-66-3	
Chloroform	ND	ug/L	0.5	11/04/96	EPA 8010	ads	107-06-2	
1,2-Dichloroethane	ND	ug/L	0.5	11/04/96	EPA 8010	ads	71-55-6	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/04/96	EPA 8010	ads	56-23-5	
Carbon Tetrachloride	ND	ug/L	1.2	11/04/96	EPA 8010	ads	75-27-4	
Bromodichloromethane	ND	ug/L	1	11/04/96	EPA 8010	ads	78-87-5	
1,2-Dichloropropane	ND	ug/L	0.5	11/04/96	EPA 8010	ads	10061-01-5	
cis-1,3-Dichloropropene	ND	ug/L	3.4	11/04/96	EPA 8010	ads	79-01-6	
Trichloroethene	1.4	ug/L	1.2	11/04/96	EPA 8010			



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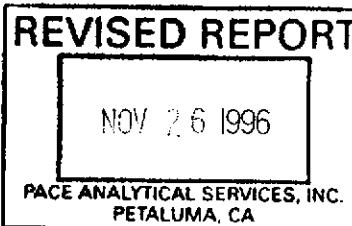
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PAGE: 2

PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oaklan

PACE Sample No:	70773437		Date Collected:	10/24/96				
Client Sample ID:	MW-1		Date Received:	10/24/96				
Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Dibromochloromethane	ND	ug/L	0.9	11/04/96	EPA 8010	ads	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/04/96	EPA 8010	ads	79-00-5	
trans-1,3-Dichloropropene	ND	ug/L	3.4	11/04/96	EPA 8010	ads	10061-02-6	
Bromoform	ND	ug/L	2	11/04/96	EPA 8010	ads	75-25-2	
Tetrachloroethene	ND	ug/L	0.5	11/04/96	EPA 8010	ads	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/04/96	EPA 8010	ads	79-34-5	
Chlorobenzene	ND	ug/L	0.7	11/04/96	EPA 8010	ads	108-90-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	5	11/04/96	EPA 8010	ads	110-75-8	
1,2-Dichlorobenzene	ND	ug/L	1	11/04/96	EPA 8010	ads	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1	11/04/96	EPA 8010	ads	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1	11/04/96	EPA 8010	ads	106-46-7	
Bromochloromethane (S)	114	%		11/04/96	EPA 8010	ads	74-97-5	
1,4-Dichlorobutane (S)	110	%		11/04/96	EPA 8010	ads	110-56-5	
GC								
TPH in Water by 8015 Modified								
Diesel Fuel	0.25	mg/L	0.05	11/06/96	TPH by EPA 8015M	WSN	11-84-7... 1	
Motor Oil	ND	mg/L	0.25	11/06/96	TPH by EPA 8015M	WSN		
JP-4	ND	mg/L	0.5	11/06/96	TPH by EPA 8015M	WSN		
n-Pentacosane (S)	89	%		11/06/96	TPH by EPA 8015M	WSN	629-99-2	
Date Extracted								
10/31/96								



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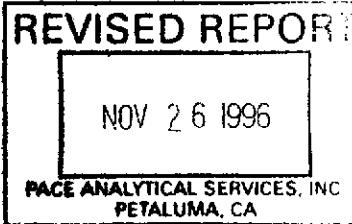
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PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oaklan

PACE Sample No:	70773445			Date Collected:	10/24/96			
Client Sample ID:	QC-1			Date Received:	10/24/96			
Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
Wet Chemistry								
Total Dissolved Solids	3620	mg/L	5	11/02/96	EPA 160.1	LMD		
GC -- Volatiles								
GAS/BTEX by CA LUFT, Water								
Gasoline	64	ug/L	50	11/01/96	CA LUFT	AMH		
Benzene	1.9	ug/L	0.5	11/01/96	CA LUFT	AMH	71-43-2	
Toluene	ND	ug/L	0.5	11/01/96	CA LUFT	AMH	108-88-3	
Ethylbenzene	ND	ug/L	0.5	11/01/96	CA LUFT	AMH	100-41-4	
Xylene (Total)	1.2	ug/L	1	11/01/96	CA LUFT	AMH	1330-20-7	
a,a,a-Trifluorotoluene (S)	97	%		11/01/96	CA LUFT	AMH	2164-17-2	
4-Bromofluorobenzene (S)	95	%		11/01/96	CA LUFT	AMH	460-00-4	
Volatile Halogenated Organics								
Chloromethane	ND	ug/L	0.8	11/05/96	EPA 8010	ads	74-87-3	
Bromomethane	ND	ug/L	3	11/05/96	EPA 8010	ads	74-83-9	
Vinyl Chloride	ND	ug/L	1.8	11/05/96	EPA 8010	ads	75-01-4	
Chloroethane	ND	ug/L	5.2	11/05/96	EPA 8010	ads	75-00-3	
Methylene Chloride	ND	ug/L	2.5	11/05/96	EPA 8010	ads	75-09-2	
Trichlorofluoromethane	ND	ug/L	5	11/05/96	EPA 8010	ads	75-69-4	
1,1-Dichloroethene	ND	ug/L	1.3	11/05/96	EPA 8010	ads	75-35-4	
1,1-Dichloroethane	12	ug/L	0.7	11/05/96	EPA 8010	ads	75-34-3	
trans-1,2-Dichloroethene	ND	ug/L	1	11/05/96	EPA 8010	ads	156-60-5	
Chloroform	ND	ug/L	0.5	11/05/96	EPA 8010	ads	67-66-3	
1,2-Dichloroethane	ND	ug/L	0.5	11/05/96	EPA 8010	ads	107-06-2	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/05/96	EPA 8010	ads	71-55-6	
Carbon Tetrachloride	ND	ug/L	1.2	11/05/96	EPA 8010	ads	56-23-5	
Bromodichloromethane	ND	ug/L	1	11/05/96	EPA 8010	ads	75-27-4	
1,2-Dichloropropane	ND	ug/L	0.5	11/05/96	EPA 8010	ads	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	3.4	11/05/96	EPA 8010	ads	10061-01-5	
Trichloroethylene	1.2	ug/L	1.2	11/05/96	EPA 8010	ads	79-01-6	
Dibromochloromethane	ND	ug/L	0.9	11/05/96	EPA 8010	ads	124-48-1	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/05/96	EPA 8010	ads	79-00-5	
trans-1,3-Dichloropropene	ND	ug/L	3.4	11/05/96	EPA 8010	ads	10061-02-6	
Bromoform	ND	ug/L	2	11/05/96	EPA 8010	ads	75-25-2	
Tetrachloroethylene	ND	ug/L	0.5	11/05/96	EPA 8010	ads	127-18-4	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/05/96	EPA 8010	ads	79-34-5	
Chlorobenzene	ND	ug/L	0.7	11/05/96	EPA 8010	ads	108-90-7	
2-Chloroethyl Vinyl Ether	ND	ug/L	5	11/05/96	EPA 8010	ads	110-75-8	
1,2-Dichlorobenzene	ND	ug/L	1	11/05/96	EPA 8010	ads	95-50-1	



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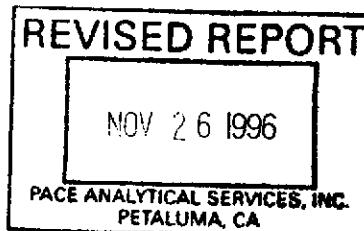
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PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oaklan

PACE Sample No:	70773445		Date Collected:	10/24/96				
Client Sample ID:	QC-1		Date Received:	10/24/96				
Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
1,3-Dichlorobenzene	ND	ug/L	1	11/05/96	EPA 8010	ads	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1	11/05/96	EPA 8010	ads	106-46-7	
Bromochloromethane (S)	105	%		11/05/96	EPA 8010	ads	74-97-5	
1,4-Dichlorobutane (S)	95	%		11/05/96	EPA 8010	ads	110-56-5	
GC								
TPH in Water by 8015 Modified								
Diesel Fuel	0.25	mg/L	0.05	11/06/96	TPH by EPA 8015M	WSN	11-84-7... 1	
Motor Oil	ND	mg/L	0.25	11/06/96	TPH by EPA 8015M	WSN		
JP-4	ND	mg/L	0.5	11/06/96	TPH by EPA 8015M	WSN		
n-Pentacosane (S)	91	%		11/06/96	TPH by EPA 8015M	WSN	629-99-2	
Date Extracted				10/31/96				



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PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oakland

PARAMETER FOOTNOTES

- [ND] Not Detected
- [NC] Not Calculable
- [PRL] PACE Reporting Limit
- (S) Surrogate
- [1] Analyte is found in the associated blank as well as in the sample.

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QUALITY CONTROL DATA

DATE: 11/08/96
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Innovative Technical Solutions
2855 Mitchell Drive, Suite 118
Walnut Creek, CA 94598

PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oakland

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

QC Batch ID: 18650 QC Batch Method: EPA 3520
Analysis Method: TPH by EPA 8015M Analysis Description: TPH in Water by 8015 Modified
Associated PACE Samples: 70773437 70773445

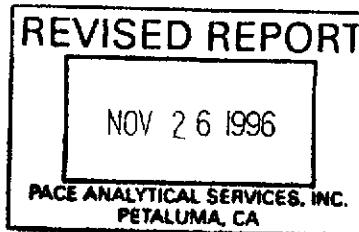
Date of Batch: 10/31/96

METHOD BLANK: 70775796

Associated PACE Samples:

70773437		70773445	
Units	Result	PRL	Footnotes
mg/L	0.058	0.05	1
mg/L	ND	0.25	
mg/L	ND	0.5	
%	90		

LABORATORY CONTROL SAMPLE & LCSD: 70775804		70775812		Spike		Dup		Footnotes	
Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	% Rec	RPD		
Diesel Fuel	mg/L	1.0	0.6075	60.8	0.6854	68.5	12		
n-Pentacosane (S)				99.3		98.3			



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DATE: 11/08/96
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Innovative Technical Solutions
2855 Mitchell Drive, Suite 118
Walnut Creek, CA 94598

PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oakland

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

QC Batch ID: 18659 QC Batch Method: EPA 160.1 Date of Batch: 10/31/96
Analysis Method: EPA 160.1 Analysis Description: Total Dissolved Solids
Associated PACE Samples: 70773437 70773445

METHOD BLANK: 70775937

Associated PACE Samples:

70773437	70773445		
	Method		
	Blank		
Units	Result	PRL	Footnotes
mg/L	ND	5	

SAMPLE DUPLICATE: 70775945

Parameter	Units	70773437	Dup. Result	RPD	Footnotes
Total Dissolved Solids	mg/L	3090	3140	2	

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

PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oakland

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

QC Batch ID: 18720 QC Batch Method: CA LUFT
Analysis Method: CA LUFT Analysis Description: GAS/BTEX by CA LUFT, Water
Associated PACE Samples: 70773437 70773445

Date of Batch: 11/01/96

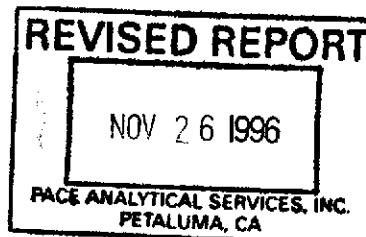
METHOD BLANK: 70778402

Associated PACE Samples:

70773437		70773445	
Units		Method	
		Blank	PRL
ug/L	ND	50	
ug/L	ND	0.5	
ug/L	ND	0.5	
ug/L	ND	0.5	
ug/L	ND	1	
%	95		
%	85		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 70778410 70778428				Matrix	Matrix	Spike			
Parameter	Units	70773437	Spike Conc.	Spike Result	% Rec	Sp. Dup. Result	Dup % Rec	RPD	Footnotes
Gasoline	ug/L	57.48	1000	990.9	93.3	1000	94.3	1	

LABORATORY CONTROL SAMPLE & LCSD: 70778436		70778444		Spike		Dup		Footnotes	
Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike % Rec	RPD		
Gasoline	ug/l	1000	963.3	96.3	967.0	96.7	0		



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Innovative Technical Solutions
2855 Mitchell Drive, Suite 118
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PACE Project Number: 706896
Client Project ID: Economy Parking/Port of Oakland

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

QC Batch ID: 18780 QC Batch Method: EPA 8010 Date of Batch: 11/04/9
Analysis Method: EPA 8010 Analysis Description: Volatile Halogenated Organics
Associated PACE Samples: 70773437 70773445

METHOD BLANK: 70780374

Associated PACE Samples:

Units	Method Blank Result	PRL	Footnotes
ug/L	ND	0.8	
ug/L	ND	3	
ug/L	ND	1.8	
ug/L	ND	5.2	
ug/L	ND	2.5	
ug/L	ND	5	
ug/L	ND	1.3	
ug/L	ND	0.7	
ug/L	ND	1	
ug/L	ND	0.5	
ug/L	ND	0.5	
ug/L	ND	0.5	
ug/L	ND	1.2	
ug/L	ND	1	
ug/L	ND	0.5	
ug/L	ND	3.4	
ug/L	ND	1.2	
ug/L	ND	0.9	
ug/L	ND	0.5	
ug/L	ND	3.4	
ug/L	ND	2	
ug/L	ND	0.5	
ug/L	ND	0.5	
ug/L	ND	0.7	
ug/L	ND	5	

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PACE Project Number: 706896

Client Project ID: Economy Parking/Port of Oaklan

METHOD BLANK: 70780374

Associated PACE Samples:

	70773437	70773445	Method	
Parameter	Units	Result	PRL	Blank
1,2-Dichlorobenzene	ug/L	ND	1	
1,3-Dichlorobenzene	ug/L	ND	1	
1,4-Dichlorobenzene	ug/L	ND	1	
Bromochloromethane (S)	%	106		
1,4-Dichlorobutane (S)	%	107		

Parameter	Units	70773437	Spike Conc.	Matrix Spike Result	Matrix % Rec	Sp. Dup. Result	Spike % Rec	Dup RPD	Footnotes
Chloromethane	ug/L	0	20	23.68	118	22.26	111	6	
Bromomethane	ug/L	0	20	23.03	115	21.85	109	5	
Vinyl Chloride	ug/L	0.3479	20	19.45	95.5	18.27	89.6	6	
Chloroethane	ug/L	0.3966	20	20.21	99.1	19.21	94.1	5	
Methylene Chloride	ug/L	0	20	19.18	95.9	19.01	95.1	1	
Trichlorofluoromethane	ug/L	0	20	20.12	101	19.01	95.1	6	
1,1-Dichloroethene	ug/L	0.3172	20	20.96	103	20.01	98.5	5	
1,1-Dichloroethane	ug/L	11.98	20	29.96	89.9	29.13	85.8	5	
trans-1,2-Dichloroethene	ug/L	0	20	20.69	104	19.79	99.0	4	
Chloroform	ug/L	0	20	20.56	103	20.42	102	1	
1,2-Dichloroethane	ug/L	0.1878	20	19.65	97.3	18.84	93.3	4	
1,1,1-Trichloroethane	ug/L	0	20	21.74	109	20.95	105	4	
Carbon Tetrachloride	ug/L	0	20	20.34	102	19.62	98.1	4	
Bromodichloromethane	ug/L	0	20	20.08	100	19.36	96.8	4	
1,2-Dichloropropane	ug/L	0	20	19.30	96.5	19.44	97.2	1	
cis-1,3-Dichloropropene	ug/L	0	20	19.26	96.3	18.89	94.5	2	
Trichloroethene	ug/L	1.381	20	20.29	94.5	20.53	95.7	1	
Dibromochloromethane	ug/L	0	20	19.08	95.4	19.05	95.3	0	
1,1,2-Trichloroethane	ug/L	0	20	19.51	97.6	19.10	95.5	2	
trans-1,3-Dichloropropene	ug/L	0	20	18.13	90.7	17.91	89.6	1	
Bromoform	ug/L	0	20	17.93	89.7	18.32	91.6	2	
Tetrachloroethene	ug/L	0.3790	20	20.24	99.3	19.64	96.3	3	
1,1,2,2-Tetrachloroethane	ug/L	0	20	18.66	93.3	18.52	92.6	1	
Chlorobenzene	ug/L	0	20	20.85	104	20.86	104	0	
2-Chloroethyl Vinyl Ether	ug/L	0	20	15.54	77.7	16.46	82.3	6	
1,2-Dichlorobenzene	ug/L	0	20	21.03	105	20.44	102	3	
1,3-Dichlorobenzene	ug/L	0	20	20.31	102	20.82	104	2	

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QUALITY CONTROL DATA

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PACE Project Number: 706896

Client Project ID: Economy Parking/Port of Oakland

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 70780382 70780390			Matrix	Matrix	Spike			
Parameter	Units		Spike	Spike	Sp. Dup.	Dup		
			Conc.	Result	% Rec	% Rec	RPD	Footnotes
1,4-Dichlorobenzene	ug/L	0	20	21.09	106	20.62	103	2
Bromochloromethane (S)					103		100	
1,4-Dichlorobutane (S)					95.0		91.4	

LABORATORY CONTROL SAMPLE & LCSD: 70780408 70780416			Spikes	LCSD	Spike	Dup			
Parameter	Units		Conc.	Result	% Rec	Result	% Rec	RPD	Footnotes
Chloromethane	ug/L	20	23.82	119	23.27	116	3		
Bromomethane	ug/L	20	23.75	119	22.20	111	7		
Vinyl Chloride	ug/L	20	18.52	92.6	18.84	94.2	2		
Chloroethane	ug/L	20	19.48	97.4	19.05	95.3	2		
Methylene Chloride	ug/L	20	20.12	101	19.42	97.1	4		
Trichlorofluoromethane	ug/L	20	19.26	96.3	19.04	95.2	1		
1,1-Dichloroethene	ug/L	20	20.34	102	19.70	98.5	3		
1,1-Dichloroethane	ug/L	20	21.40	107	21.18	106	1		
trans-1,2-Dichloroethene	ug/L	20	22.02	110	20.36	102	8		
Chloroform	ug/L	20	20.86	104	20.17	101	3		
1,2-Dichloroethane	ug/L	20	19.86	99.3	19.94	99.7	0		
1,1,1-Trichloroethane	ug/L	20	20.98	105	19.71	98.6	6		
Carbon Tetrachloride	ug/L	20	20.58	103	19.85	99.3	4		
Bromodichloromethane	ug/L	20	20.68	103	20.16	101	2		
1,2-Dichloroproppane	ug/L	20	20.25	101	19.78	98.9	2		
cis-1,3-Dichloropropene	ug/L	20	20.29	101	20.41	102	1		
Trichloroethene	ug/L	20	20.13	101	20.25	101	0		
Dibromochloromethane	ug/L	20	19.09	95.5	19.96	99.8	4		
1,1,2-Trichloroethane	ug/L	20	20.08	100	20.15	101	1		
trans-1,3-Dichloropropene	ug/L	20	19.49	97.5	18.95	94.8	3		
Bromoform	ug/L	20	19.69	98.5	19.71	98.6	0		
Tetrachloroethene	ug/L	20	20.59	103	20.42	102	1		
1,1,2,2-Tetrachloroethane	ug/L	20	20.04	100	19.85	99.3	1		
Chlorobenzene	ug/L	20	21.35	107	21.10	106	1		
2-Chloroethyl Vinyl Ether	ug/L	20	16.23	81.2	15.95	79.8	2		
1,2-Dichlorobenzene	ug/L	20	20.92	105	19.88	99.4	5		
1,3-Dichlorobenzene	ug/L	20	20.79	104	19.76	98.8	5		
1,4-Dichlorobenzene	ug/L	20	20.76	104	20.19	101	3		
Bromochloromethane (S)					105		103		
1,4-Dichlorobutane (S)					96.9		101		

REPORT OF LABORATORY ANALYSIS

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PACE Project Number: 706896

Client Project ID: Economy Parking/Port of Oakland

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] Hydrocarbons present do not match profile of laboratory standard.

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)

706896

PROJECT NAME: Port of Oakland - Economy Parking Lot
 PROJECT NUMBER: 95-111.03
 SITE LOCATION: MOIA, Oakland, CA

DATE: 10/29/96

PAGE: 1 of 1

CHAIN OF CUSTODY

SAMPLE I.D.	SAMPLE DEPTH	DATE	TIME	NUMBER OF CONTAINERS	TYPE OF CONTAINERS	SAMPLE MATRIX	ANALYSIS						SPECIAL INSTRUCTIONS/COMMENTS	
							TPH as Gas/BTEX - 8015/8020	TPH as Diesel - 8015	TPH as Diesel - 8015 (w/ Silica Gel Cleanup)	TEPH - 8015	TEPH-8015 m (jacket, no) (w/ Silica Gel Cleanup)	TRPH - 418.1		Oil and Grease - 5520
MW-1		10/24/96 1635		5	Voas W	X			X					70773437
QC-1				2	1LAs W			X						70773445
				1	250mL(P) W									
				5	Voas W	X			X					
				2	1LAs W			X						
				1	250mL(P) W									
						Not Used. (53)						10/24/96		
TOTAL NUMBER OF CONTAINERS						16	TOTAL TESTS	2	2	2	2	2	2	
SAMPLER BY:						SPECIAL INSTRUCTIONS/COMMENTS:						Standard T.A.T		
SIGNATURE:														
RELINQUISHED BY:			RELINQUISHED BY:			RELINQUISHED BY:			RECEIVED BY:			RECEIVED BY:		
Printed Name			Signature			Printed Name			Signature			Printed Name		
ITS 10/24/96 1928						Company			Date and Time			Company		
Company			Date and Time									Date and Time		
RECEIVED BY:			RECEIVED BY:			RECEIVED BY:			RECEIVED BY:			RECEIVED BY:		
Printed Name			Signature			Printed Name			Signature			Printed Name		
PAS 10/24/96 1527						Company			Date and Time			Company		
Company			Date and Time									Date and Time		
SEND RESULTS TO: Jim Schollard / Jeff Hess @ ITSI														