HYDRO ANALYSIS, INC.
Environmental & Water Resources Engineering
Groundwater Consultants

December 4, 2000

Larry Seto
Alameda County Environmental Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Quarterly Groundwater Monitoring Report
Matheson Trucking
2500 Poplar Street, Oakland, California
Fuel Leak Case No. 1306

Dear Mr. Seto:

The enclosed report documents the following activities at the subject property:

- Measurement of water levels in four wells,
- Evaluation of the groundwater flow direction and magnitude, and
- Collection and analysis of groundwater samples from four monitoring wells.

If you have any questions, please call me at 510/620-0891.

Sincerely,

Hydro Analysis, Inc.

K.B. Alexander

REGISTERED GEOLOGIST
KENNETH B. ALEXANDER
No. HG512
CERTIFIED HYDROGEOLOGIST
exp. 7/01
STATE OF CALIFORNIA

Kenneth B. Alexander, RG, CH
Principal Hydrogeologist

cc: Brett Davis/Matheson Trucking, Elk Grove, California

HYDRO ANALYSIS, INC.
Environmental & Water Resources Engineering
Groundwater Consultants

QUARTERLY GROUNDWATER MONITORING REPORT

(Sampled October 27, 2000)

MATHESON TRUCKING

2500 Poplar Street
Oakland, California

December 4, 2000

Hydro Analysis, Inc. Project No. 0277

11100 SAN PABLO AVE., SUITE 200-A, EL CERRITO, CALIFORNIA 94530 • TEL 510-620-0891 • FAX 510-620-0894
www.HydroAnalysis.com

TABLE OF CONTENTS

I. INTRODUCTION

The site location is the Matheson Trucking facility located at 2500 Poplar Street in Oakland, California (Figure 1). The site is situated on the southern side of 26th Street between Poplar and Union Streets in Oakland. The current layout of the property, along with the location of the previous tank excavations, is shown in Figure 2. The site has been historically operated as a truck maintenance, fueling, and dispatch facility.

This report describes groundwater monitoring activities completed in October 2000 at 2500 Poplar Street, Oakland, CA.

II. FIELD WORK: GROUNDWATER SAMPLING

Monitoring Well Sampling

On October 27, 2000, Hydro Analysis sampled four onsite groundwater monitoring wells (MW-1, MW-2, MW-3, and MW-4). The locations of the wells are shown in Figure 2. Well construction details are provided in Table 1.

Prior to sampling, several casing volumes of water were removed from each well. Field conductivity, temperature, and pH were monitored during purging. Purging continued until these parameters stabilized. Groundwater samples were subsequently collected using new, disposable sampling bailers. The water samples were placed inside appropriate 40-ml VOA vials free of any headspace. The samples were immediately placed on crushed ice, then transported under chain-of-custody to the laboratory at the end of the workday.

At the time each monitoring well was sampled, the following information was recorded in the field: (1) depth-to-water prior to purging, using an electrical well sounding tape, (2) observation of any floating product, sheen, or odor prior to purging, using a clear Teflon bailer, (3) pH, (4) temperature, and (5) specific conductance. Copies of the well sampling logs are included in Attachment A.

Wastewater Generation

All water and other liquid waste removed from the wells during purging was drummed and stored onsite. The water and liquid waste is periodically picked up by a licensed waste hauler and transported under manifest to an appropriate recycling and disposal facility.

III. RESULTS OF WATER LEVEL MEASUREMENTS

Groundwater Flow Direction and Hydraulic Gradient

On October 27, 2000, Hydro Analysis measured water level in the four monitoring wells (Table 2). Figure 2 presents a contour map for the groundwater beneath the site. As shown in Figure 2, the water level data indicate that groundwater flow in October 2000 was toward the south-southwest direction.

The calculated hydraulic gradient for October 2000 was approximately 0.004 feet/feet (about 22 feet per mile).

Floating Product

Measurements of floating product were performed prior to water level measurements on October 27, 2000. No floating product was observed.

IV. ANALYTICAL RESULTS

Laboratory Analysis

All analyses were performed by Entech Analytical Labs, Inc., of Sunnyvale, California, a California State Department of Health Services-certified laboratory. All samples were analyzed in accordance with U.S. EPA recommended procedures.

All soil and groundwater samples were analyzed for:

- Total Petroleum Hydrocarbons as Gasoline (modified EPA Method 8015)
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA Method 8020)
- Methyl Tertiary Buytl Ether (MTBE) (EPA Method 8260B)
- Total Petroleum Hydrocarbons as Diesel (modified EPA Method 8015)

Analytical Results: Groundwater

Table 3 presents the analytical results for the groundwater samples collected on October 27, 2000. Copies of the laboratory reports and chain-of-custody records are provided in Attachment B.

In general, the groundwater analytical results are unremarkable. As shown in Table 3, petroleum constituents were not detected in any of the groundwater samples, except for diesel (at a maximum concentration of 870 µg/L) and gasoline (at a concentration of 62 µg/L in the sample from well MW-4). Concentrations are similar to the previous quarterly monitoring results.

V. DATA ANALYSIS AND RECOMMENDATIONS

The results of the groundwater sampling revealed relatively low concentrations of diesel in the four monitoring wells. Gasoline was detected at a relatively low concentration in monitoring well MW-4. Otherwise, gasoline, BTEX, and MTBE were not detected in any of the groundwater samples. Groundwater analytical results are shown graphically on Figure 3.

The detection of diesel and gasoline is not indicative of a significant tank release, nor do the measured groundwater concentrations represent a significant risk to human health or the environment. We believe that contaminant migration is limited due to the very low permeability of the clay and silt encountered beneath the site. The detected diesel and gasoline will attenuate with time, primarily due to intrinsic biodegradation.

On the basis of the foregoing, we do not believe the detected petroleum hydrocarbons represent a significant risk to human health or the environment and we do not believe that further investigation or remediation is warranted. We recommend that groundwater monitoring be performed one more time in February 2001. If, at that time, the analytical results do not show evidence of increasing petroleum contamination, we will recommend the site for regulatory closure.

TABLE 1.

Monitoring Well Completion Data
Matheson Trucking, 2500 Poplar Street, Oakland, California

Well Number:	MW-1	MW-2	MW-3	MW-4
Date of Installation	January 29, 1996	January 29, 1996	April 18, 2000	April 18, 2000
Installed By	Hageman-Aguiar, Inc.	Hageman-Aguiar, Inc.	Hageman-Aguiar, Inc.	Hageman-Aguiar, Inc.
Installation Method	HSA	HSA	HSA	HSA
Boring Diameter (inches)	8	8	8	8
Measuring Point Description	Top of PVC casing	Top of PVC casing	Top of PVC casing	Top of PVC casing
Measuring Point Elev. (feet)	9.19	8.03	8.82	8.80
Approximate Seal Depth (feet)	2.5	2.5	4	4
Total Depth (feet)	15	15	15	15
Casing Diameter (inches)	2	2	2	2
Screened Interval (ft) - depth	3 to 15	3 to 15	5 to 15	5 to 15
elevation	6.2 to -5.8	5.0 to -7.0	3.8 to -6.2	3.8 to -6.2
Sand Pack Interval (ft) - depth	2.5 to 15	2.5 to 15	4 to 15	4 to 15
elevation	6.7 to -5.8	5.5 to -7.0	4.8 to -6.2	4.8 to -6.2
Screen Specifications	SCH 40 PVC, 0.010-in slots	SCH 40 PVC, 0.010-in slots	SCH 40 PVC, 0.010-in slots	SCH 40 PVC, 0.010-in slots

General Notes

(a) Elevations referenced to Mean Sea Level.

(b) Depths measured relative to ground surface.

(c) HSA = Hollow-stem augers.

TABLE 2.

Groundwater Elevation Measurements
Matheson Trucking, 2500 Poplar Street, Oakland, California

	MW-1		MW-2		MW-3		MW-4	
	MP Elevation = 9.19 feet		MP Elevation = 8.03 feet		MP Elevation = 8.82 feet		MP Elevation = 8.80 feet	
Date	Depth	Elev	Depth	Elev	Depth	Elev	Depth	Elev
May 1, 2000	6.30	2.89	5.09	2.94	7.25	1.57	7.02	1.78
August 23, 2000	7.59	1.60	6.14	1.89	8.09	0.73	7.28	1.52
October 27, 2000	7.96	1.23	5.89	2.14	6.55	2.27	7.45	1.35

General Notes

(a) Depth measurements cited in units of feet below measuring point (MP). MP is top of PVC well casing.

(b) Elevation measurements cited in units of feet above Mean Sea Level and referenced to top of casing elevation of former Findley Adhesives well MW-2 at 2433 Poplar Street. MW-2 TOC elevation is 8.03 feet above Mean Sea Level.

TABLE 3.

Groundwater Analytical Results
Matheson Trucking, 2500 Poplar Street, Oakland, California

Well Number	Date	TPH as Diesel (µg/L)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	May 1, 2000	76	<50	<0.5	<0.5	<0.5	<0.5	<5
	Aug 9, 2000	***340***	<50	<0.5	<0.5	<0.5	<0.5	<5
	Oct 27, 2000	***870***	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-2	May 1, 2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
	Aug 9, 2000	63	<50	<0.5	<0.5	<0.5	<0.5	<5
	Oct 27, 2000	***170***	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-3	May 1, 2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
	Aug 9, 2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
	Oct 27, 2000	***300***	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-4	May 1, 2000	***320***	<50	<0.5	<0.5	<0.5	<0.5	<5
	Aug 9, 2000	***260***	***110***	<0.5	<0.5	<0.5	<0.5	<5
	Oct 27, 2000	***430***	***62***	<0.5	<0.5	<0.5	<0.5	<5

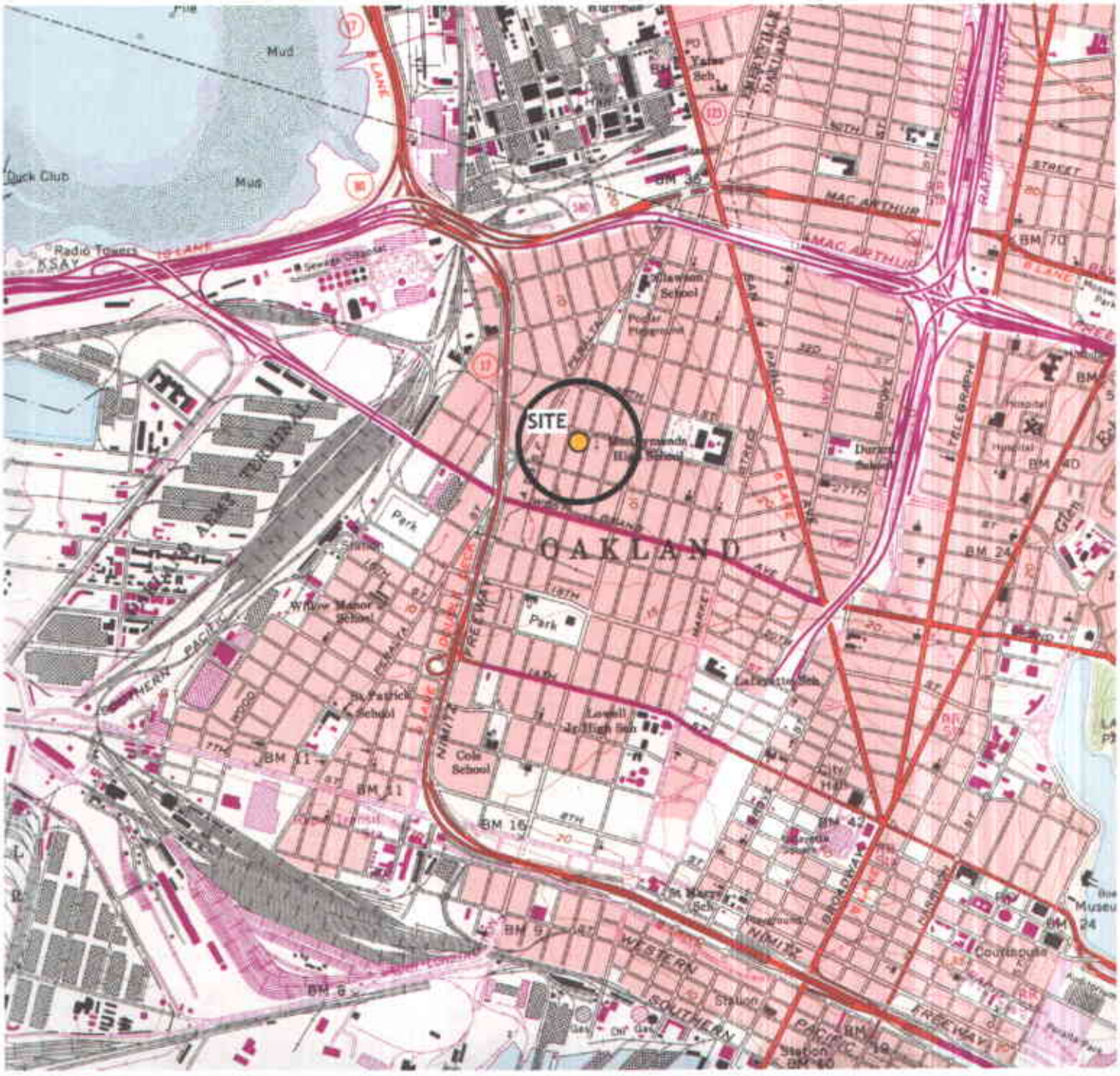
Drinking Water Criteria	100 (T&O)	5 (T&O)	1 (MCL)	150 (MCL)	700 (MCL)	1,750 (MCL)	5 (MCL)
EPA Method No.	Modified 8015	Modified 8015	8020	8020	8020	8020	8260B

General Notes

(a) "<" = parameter below laboratory method reporting limit.

(b) Drinking water criteria is for comparison purposes only. Source: Jon B. Marshack, *A Compilation of Water Quality Goals*, Central Valley Regional Water Quality Control Board, Sacramento, CA, March 1998. T&O = Taste and Odor Threshold. MCL = California Primary Maximum Contaminant Level.

(c) Concentrations exceeding the drinking water criteria in ***bold italic***.



Basemap: USGS 7.5-minute topographic quadrangle, Oakland West, Calif., Photorevised 1980.

NORTH

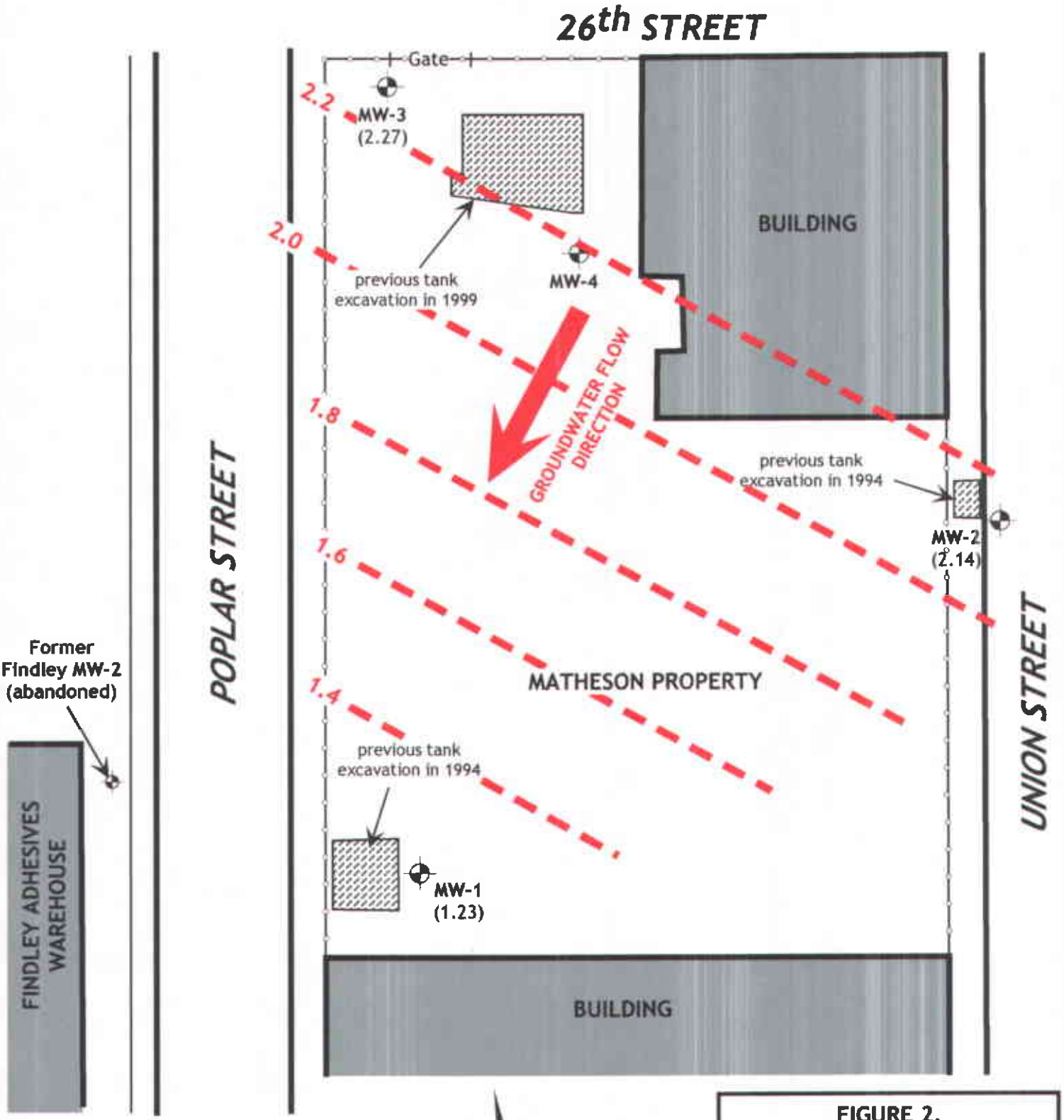
1,000 0 1,000 2,000 3,000 4,000 feet

FIGURE 1.

Location Map

Matheson Trucking
2500 Poplar Street
Oakland, California

Hydro Analysis, Inc.



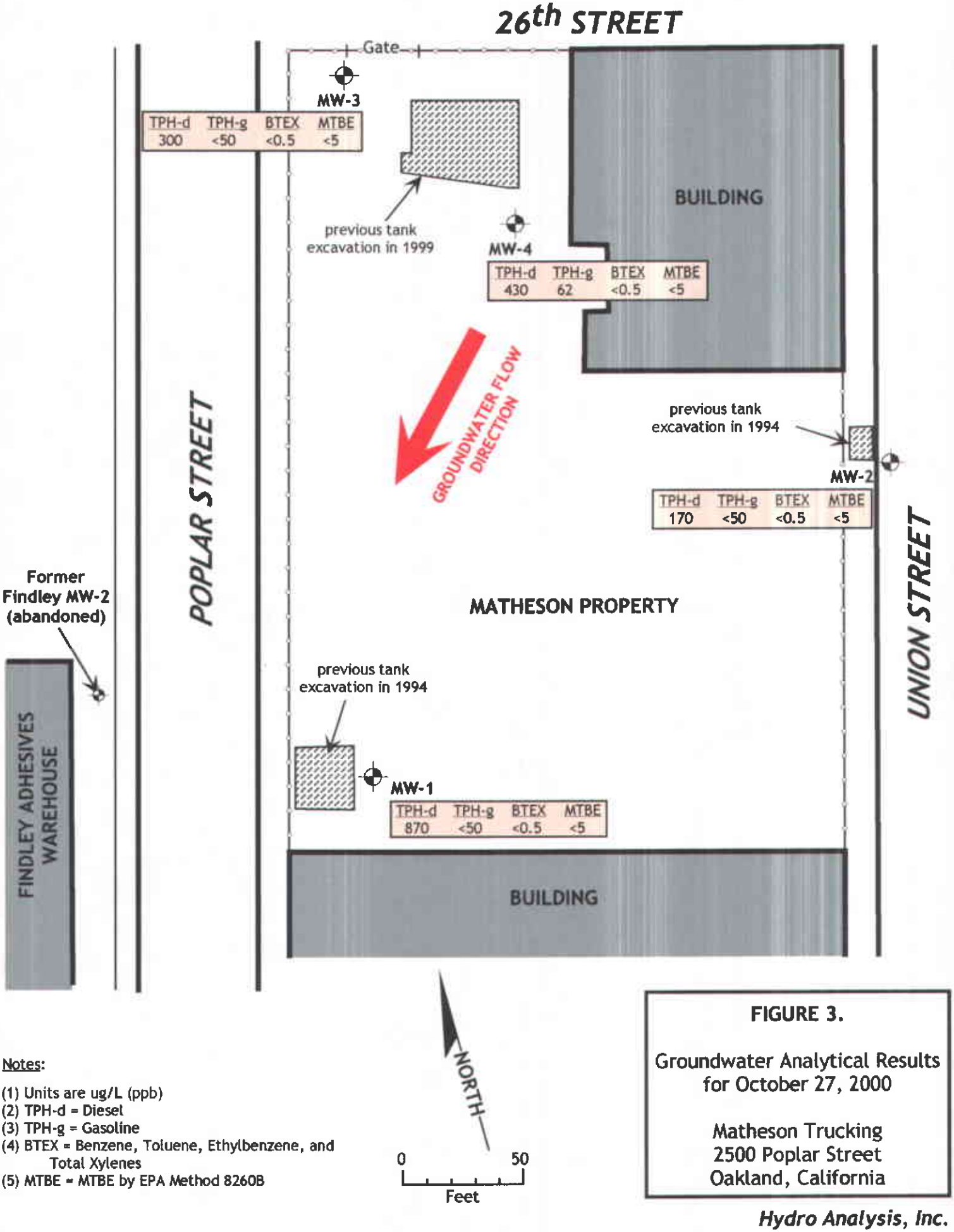
Note: Groundwater elevations are in units of feet above Mean Sea Level.

FIGURE 2.

Monitoring Well Locations with Groundwater Elevations on October 27, 2000

Matheson Trucking
2500 Poplar Street
Oakland, California

Hydro Analysis, Inc.



Notes:

(1) Units are ug/L (ppb)
(2) TPH-d = Diesel
(3) TPH-g = Gasoline
(4) BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes
(5) MTBE = MTBE by EPA Method 8260B

FIGURE 3.

Groundwater Analytical Results for October 27, 2000

Matheson Trucking
2500 Poplar Street
Oakland, California

Hydro Analysis, Inc.

ATTACHMENT A

Well Sampling Logs

HYDRO ANALYSIS, Inc.

WELL MONITORING DATA SHEET

Project: Matheson - Oakland

Date: 10/27/2000

WELL #	DEPTH TO WATER	PRODUCT	WELL DEPTH	PRODUCT REMOVED	WATER REMOVED	COMMENTS
MW-1	7.96'	none	15.69'	—	4 gal	
MW-2	5.89'	none	14.19'	—	6 gal	
MW-3	6.55'	none	14.99'	—	4 gal	
MW-4	7.45'	sheen	15.25'	—	3 gal	

WELL SAMPLING LOG

Site Location: Matheson - Oakland
Page: 1 of 4

Well Number: MW-2
Date: 10/27/2000

Weather: Sunny, 60°-70°
Time Began: 09:57

Sampling Personnel: R Wilson
Completed: 10:09

EVACUATION DATA

Description of Measuring Point (MP): T.O.C.

Total Sounded Depth of Well Below MP	13.92' ±0.27'		Sample Collected
- Depth to Water Below MP	5.89'		Volatile Organics (VOA's) 6
= Water Column in Well	8.30'		1 Liter Amber Glass 2
x Casing Diameter Multiplier	0.169	2"	Polyethylene (plastic)
= Gallons in Casing	1.40		Other
Gallons Pumped Prior to Sampling	6		Samples Filtered NO

Evacuation Method:		Sample Method:	
PVC Bailer	X	Evacuation Bailer	X
Acrillyc Bailer		Disposable Bailer	
Pump		Pump	
Other		Direct	

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: (thickness to 0.01 foot, if any) None, Clear

Time	10:00	10:03	10:06	10:09	
Gals Removed	1.5	3	4.5	6	
Temperature	22.6	22.7	22.6	22.4	
Conductivity	883	913	964	904	
pH	7.22	7.11	7.09	7.08	
Color / Odor	Tan	Tan	Tan	Tan	
Turbidity	med	med	med	med	
Other					

Comments:

WELL SAMPLING LOG

Site Location: Matheson - Oakland
Page: 2 of 4
Well Number: MW-1
Date: 10/27/2000
Weather: Sunny, 60°-70°
Time Began: 10:47
Sampling Personnel: R Wilson
Completed: 11:06

EVACUATION DATA

Description of Measuring Point (MP): T.O.C.

Total Sounded Depth of Well Below MP: 15.42' +0.27'
- Depth to Water Below MP: 7.96'
= Water Column in Well: 7.73'
x Casing Diameter Multiplier: 0.169 (2")
= Gallons in Casing: 1.31
Gallons Pumped Prior to Sampling: 4

Sample Collected
Volatile Organics (VOA's): 6
1 Liter Amber Glass: 2
Polyethylene (plastic):
Other:
Samples Filtered: no

Evacuation Method:
PVC Bailer: X
Acrillyc Bailer:
Pump:
Other:

Sample Method:
Evacuation Bailer: X
Disposable Bailer:
Pump:
Direct:

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None, clear
(thickness to 0.01 foot, if any)

Time	10:49	10:52	10:54	10:56	Sample 11:06
Gals Removed	1	2	3	4	4
Temperature	20.8	21.0	20.6	20.6	20.2
Conductivity	1336	1438	1533	1683	1672
pH	6.90	6.86	6.85	6.87	6.91
Color / Odor	Tan	Tan	Tan	Tan	Tan
Turbidity	med	med	med	high	med
Other				dewatered	

Comments:

WELL SAMPLING LOG

Site Location: Mathesen - Oakland
Page: 3 of 4
Well Number: MW-4
Date: 10/27/2000
Weather: Sunny, 60°-70°
Time Began: 11:29
Sampling Personnel: R Wilson
Completed: 11:45

EVACUATION DATA

Description of Measuring Point (MP): T.O.C.

Total Sounded Depth of Well Below MP: 14.98' +0.27'
- Depth to Water Below MP: 7.45'
= Water Column in Well: 7.80'
x Casing Diameter Multiplier: 0.169 2"
= Gallons in Casing: 1.32
Gallons Pumped Prior to Sampling: 3

Sample Collected
Volatile Organics (VOA's): 6
1 Liter Amber Glass: 2
Polyethylene (plastic):
Other:
Samples Filtered: no

Evacuation Method:
PVC Bailer: X
Acrilyc Bailer:
Pump:
Other:

Sample Method:
Evacuation Bailer: X
Disposable Bailer:
Pump:
Direct:

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: Sheen, clear
(thickness to 0.01 foot, if any)

			Sample		
Time	11:32	11:35	11:45		
Gals Removed	1.5	3	3		
Temperature	21.2	21.1	20.6		
Conductivity	1902	1820	1813		
pH	6.89	6.88	6.93		
Color / Odor	Tan	Tan	Tan		
Turbidity	med	high	med		
Other	sheen	sheen dewatered	sheen		

Comments:

WELL SAMPLING LOG

Site Location: Matheson - Oakland
Page: 4 of 4
Well Number: MW-3
Date: 10/27/2000
Weather: Sunny, 60°-70°
Time Began: 12:10
Sampling Personnel: R Wilson
Completed: 12:28

EVACUATION DATA

Description of Measuring Point (MP): T.O.C.

Total Sounded Depth of Well Below MP	14.72'+0.27'		Sample Collected
- Depth to Water Below MP	6.55'	Volatile Organics (VOA's)	6
= Water Column in Well	8.44'	1 Liter Amber Glass	2
x Casing Diameter Multiplier	0.169 (2")	Polyethylene (plastic)	
= Gallons in Casing	1.43	Other	
Gallons Pumped Prior to Sampling	4	Samples Filtered	no

Evacuation Method:		Sample Method:	
PVC Bailer	X	Evacuation Bailer	X
Acrillyc Bailer		Dispusable Bailer	
Pump		Pump	
Other		Direct	

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None, clear
(thickness to 0.01 foot, if any)

Time	12:13	12:16	12:18	Sample 12:28	
Gals Removed	1.5	3	4	4	
Temperature	22.1	22.0	21.9	21.8	
Conductivity	1166	1172	1150	1122	
pH	7.09	7.10	7.12	7.18	
Color / Odor	Tan	Tan	Tan	Tan	
Turbidity	med	med	med	med	
Other			dewatered		

Comments:

ATTACHMENT B

Groundwater Analytical Results

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

November 08, 2000

Randall Wilson
Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530

Order: 22964
Project Name: Matheson Oakland
Project Number:
Project Notes:

Date Collected: 10/27/00
Date Received: 11/1/00
P.O. Number:

On November 01, 2000, samples were received under documenrented chain of custody. Results for the following analyses are attached:

Matrix	Test	Method
Liquid	Gas/BTEX	EPA 8015 MOD. (Purgeable)
		EPA 8020
	MTBE by EPA 8260B	EPA 8260B
	TPH as Diesel	EPA 8015 MOD. (Extractable)

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-001 **Client Sample ID:** MW-1
Sample Time: 11:06 AM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	870	x	5	50	250	µg/L	11/2/00	11/4/00	DW001101	EPA 8015 MOD. (Extractable)

Surrogate	Surrogate Recovery	Control Limits (%)
Hexacosane	98	44 - 124

Order ID: 22964 **Lab Sample ID:** 22964-002 **Client Sample ID:** MW-2
Sample Time: 10:09 AM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	170	x	1	50	50	µg/L	11/2/00	11/3/00	DW001101	EPA 8015 MOD. (Extractable)

Surrogate	Surrogate Recovery	Control Limits (%)
Hexacosane	87	44 - 124

Order ID: 22964 **Lab Sample ID:** 22964-003 **Client Sample ID:** MW-3
Sample Time: 12:28 PM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	300	x	2	50	100	µg/L	11/2/00	11/7/00	DW001101	EPA 8015 MOD. (Extractable)

Surrogate	Surrogate Recovery	Control Limits (%)
Hexacosane	100	44 - 124

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-004 **Client Sample ID:** MW-4

Sample Time: 11:45 AM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	430		1	50	50	µg/L	11/2/00	11/3/00	DW001101	EPA 8015 MOD. (Extractable)

Surrogate	Surrogate Recovery	Control Limits (%)
Hexacosane	100	44 - 124

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-001 **Client Sample ID:** MW-1

Sample Time: 11:06 AM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	11/2/00	WGC4001102	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	11/2/00	WGC4001102	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	11/2/00	WGC4001102	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	11/2/00	WGC4001102	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	98	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	11/2/00	WGC4001102	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	107	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-002 **Client Sample ID:** MW-2

Sample Time: 10:09 AM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	11/2/00	WGC4001102	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	11/2/00	WGC4001102	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	11/2/00	WGC4001102	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	11/2/00	WGC4001102	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	98	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	11/2/00	WGC4001102	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	107	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2345)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-003 **Client Sample ID:** MW-3

Sample Time: 12:28 PM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	11/3/00	WGC4001102	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	11/3/00	WGC4001102	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	11/3/00	WGC4001102	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	11/3/00	WGC4001102	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	98	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	11/3/00	WGC4001102	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	110	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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Hydro Analysis, Inc.
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El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-004 **Client Sample ID:** MW-4

Sample Time: 11:45 AM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	11/3/00	WGC4001102	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	11/3/00	WGC4001102	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	11/3/00	WGC4001102	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	11/3/00	WGC4001102	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	97	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	62	x	1	50	50	µg/L	N/A	11/3/00	WGC4001102	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	107	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle K. Anderson, Laboratory Director

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Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-001 **Client Sample ID:** MW-1

Sample Time: 11:06 AM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	11/2/00	WMS1001102	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	100	65 - 135
Dibromofluoromethane	92	65 - 135
Toluene-d8	85	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-002 **Client Sample ID:** MW-2

Sample Time: 10:09 AM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	11/2/00	WMS1001102	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	100	65 - 135
Dibromofluoromethane	90	65 - 135
Toluene-d8	86	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-003 **Client Sample ID:** MW-3

Sample Time: 12:28 PM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	11/2/00	WMS1001102	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	109	65 - 135
Dibromofluoromethane	97	65 - 135
Toluene-d8	82	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle D. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Hydro Analysis, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530
Attn: Randall Wilson

Date: 11/8/00
Date Received: 11/1/00
Project Name: Matheson Oakland
Project Number:
P.O. Number:
Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 22964 **Lab Sample ID:** 22964-004 **Client Sample ID:** MW-4

Sample Time: 11:45 AM **Sample Date:** 10/27/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	11/2/00	WMS1001102	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	95	65 - 135
Dibromofluoromethane	84	65 - 135
Toluene-d8	88	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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STANDARD LAB QUALIFIERS (FLAGS)

All Entech lab reports now reference standard lab qualifiers. These qualifiers are noted in the adjacent column to the analytical result and are adapted from the U.S. EPA CLP program. The current qualifier list is as follows:

Qualifier (Flag)	Description
U	Compound was analyzed for but not detected
J	Estimated value for tentatively identified compounds or if result is below PQL but above MDL
N	Presumptive evidence of a compound (for Tentatively Identified Compounds)
B	Analyte is found in the associated Method Blank
E	Compounds whose concentrations exceed the upper level of the calibration range
D	Multiple dilutions reported for analysis; discrepancies between analytes may be due to dilution
X	Results within quantitation range; chromatographic pattern not typical of fuel

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS:

Matheson - Oakland
2500 Poplar Street
Oakland

SAMPLER: (Signature) Randal Wilson

HYDRO ANALYSIS, INC.
11100 San Pablo Ave., Suite 200-A
El Cerrito, CA 94530
(510)620-0891 (510)620-0894 (FAX)

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	SAMPLE LOCATION	TPH-Gas, BTEX	TPH-Diesel	MTBE by 8260	REMARKS
MW-1	10/27/00	11:06		X	Monitor well # MW-1	X	X	X	22964-001
MW-2	10/27/00	10:09		X	" " # MW-2	X	X	X	-002
MW-3	10/27/00	12:28		X	" " # MW-3	X	X	X	-003
MW-4	10/27/00	11:45		X	" " # MW-4	X	X	X	-004
									Normal TAT. Please

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Randal Wilson	11/01/00 10:20	[illegible]	11/1/00 10:20
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE / TIME