



May 19, 1989

5/23/89

Alameda County Health Department
Hazardous Materials Management
80 Swan Way, Rm 200
Oakland, CA 94621
Attn: Larry Seto

Subject: Dream Lite Limousine Service, 5330 Foothill Blvd., Oakland, CA.
Remediation of site following tank removals June 1988.

Dear Mr. Seto:

Enclosed is the information you requested regarding the remediation of the tank site located at the address referenced above.

Site History:

Our understanding of Dream Lite Limousine Service site is such that three gasoline tanks were removed in June of 1988. At the time of the removal hydrocarbon product was noted. A water and soil samples were taken following the removal of the tanks. Soil samples were taken at each end of the tanks locations and also in the excavated soil. A water sample was taken in the center of the excavation site. Total petroleum hydrocarbon levels were detected at moderate levels within the soil samples collected at each end of the tanks locations. The water sample also indicated moderate levels of total petroleum hydrocarbon response as gasoline. The analyses were performed by TMA/Norcal of Richmond, CA. Apparently no analyses were conducted to determine the level of benzene, toluene, xylene, or ethylbenzene on the soil samples or water sample (see appendix A for TMA/Norcal analyses). Due to the levels of hydrocarbon response as gasoline, an aeration program was performed by the controlling party.

Present Condition:

On April 22, 1989, Fred Davis of PolyMatrix Associates, at the request of Abdo Allen Company of Oakland, CA, performed soil sampling of areas known to be contaminated as indicated by the initial soil sampling. Four soils were collected, two from the excavation site and two soils from the slurry pile or excavation pile. The walls of the excavation site had collapsed from the winter rains therefore borings were performed to obtain samples from the original sample locations. Analyses were conducted to determine if the aeration program had been effective. The analyses of the soils consisted of total petroleum hydrocarbon response as gasoline. No analyses for B, T, X, or E was performed (see appendix B for analyses).

Remediation Plan:

To determine if aliphatic and aromatic hydrocarbons are posing a threat to public health and the environment further excavation and sampling should be employed to properly quantify the levels of both straight chain and aromatic hydrocarbons. Our main goal is to reduce the levels of contamination to the maximum extent practical in minimizing any future risk.

Recommendations:

Our firm will upon receipt of the analytical values shall determine the next process of remediation. Our firm feels that if the soils values are found to be minor following future excavation and sampling that the owner should be allowed to backfill the site and repave the parking lot. Other future recommendations such as a monitoring well could be considered if the levels of hydrocarbons are found to be significant following the excavation of the area.

If you have any questions regarding this letter, please feel free to call upon me at your convenience.

Thank You,



Fred Davis
PolyMatrix Associates

TMA

Thermo Analytical Inc.

TMA/Norcal

2030 Wright Avenue

P.O. Box 4040

Richmond, CA 94804-0040

(415) 235-2633

July 16, 1988

Abdo Allen Company
718 Douglas Avenue
Oakland, CA 94603

Attention: Dick Goblirsch

Reference: TMA/Norcal I.D. 2300-2,3, Foothill Blvd. and Belvedere Street Site
Oakland, California

Dear Mr. Goblirsch:

Enclosed are the results of the analysis of samples collected at the above referenced site on June 29 and 30, 1988. The enclosed site diagram indicates the location of the samples.

Also enclosed is a copy of TMA/Norcal's general brochure and fee schedule. The fee schedule will be updated within the next month.

Please call me at 235-2633 if you have any questions concerning this information.

Sincerely,

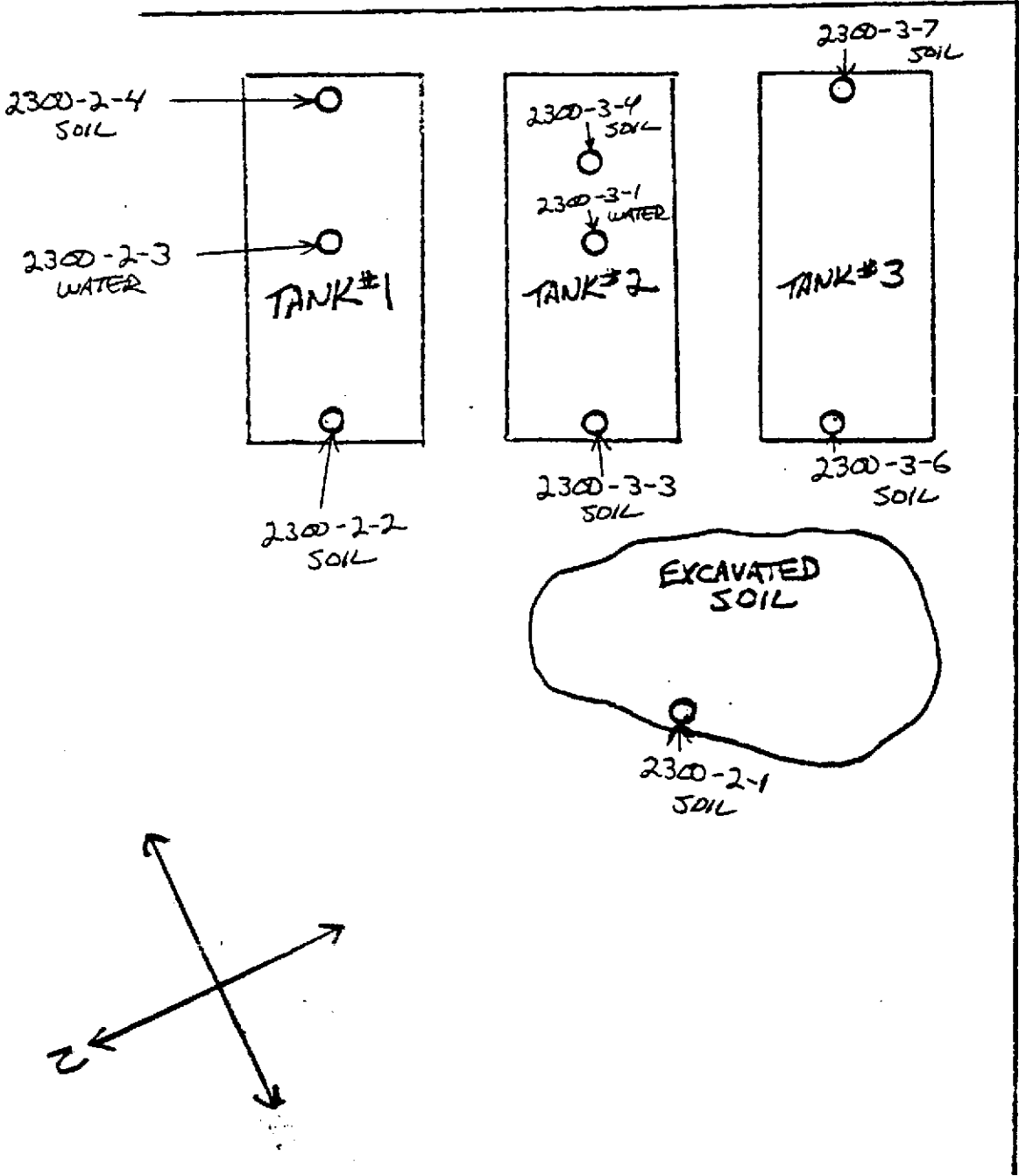


George E. Dunstan
Director of Program Management

GED/dss

Enclosures

BELVEDERE



FOOTHILL BLVD.

Page 1
Received 06/30/88

TMA Inc.

REPORT

Work Order # 88-06-176

07/18/88 15:41:20

REPORT TMA/NORCAL
TO 2030 Wright Ave
Richmond, CA 94804

PREPARED Enigma Analytical, Inc.
BY 150 Taylor Street
Concord, CA 94516

Wendy Coates
CERTIFIED BY

ATTEN Sample Control

ATTEN
PHONE 018-367-3247

CONTACT UMC

CLIENT TMA NORCAL SAMPLES 4
COMPANY TMA/NORCAL
FACILITY

This report is for the sole and exclusive use of the client to whom it is addressed and represents only those samples herein described. Samples not destroyed in testing are retained a maximum of 30 days unless otherwise requested.

WORK ID Project: 2300-2
TAKEN Unknown
TRANS by UPS
TYPE Soil, Sludge and Water
P.O. # 1009
INVOICE under separate cover

Results reported via telex to George Dunstan on 7/19/88

SAMPLE IDENTIFICATION

TEST CODES and NAMES used on this report

01 2300-2-1
02 2300-2-2
03 2300-2-3
04 2300-2-4

8015M Fuels-Total Hydrocarbons
8015M3 Fuels-Total Hydrocarbons

Page 2
Received: 06/30/88

TMA Inc. REPORT
Results by Sample

Work Order # 88-06-176

SAMPLE ID 2300-2-1

FRACTION Q1A TEST CODE 8015MS NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category _____

MODIFIED 8015 - FUEL HYDROCARBONS

COMPOUND	RESULT	DET	LIMIT	ANALYST	RMM
C5 - C12 Gasoline Range	<u>1951</u>		0.2		
C10 - C16 Jet Fuel Range	<u>ND</u>		0.2	DATE INJECTED	<u>07/11/88</u>
C9 - C22 Diesel Range	<u>ND</u>		0.2	DILUTION FACTOR	<u>1.02</u>
				VERIFIED	<u>WMC</u>

NOTE: All results reported in mg/Kg unless otherwise specified
ND = Not detected at the specified limits

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Received: 06/30/88

TMA Inc. REPORT
Results by Sample

Work Order # 88-06-176

SAMPLE ID 2300-2-2

FRACTION 02A TEST CODE 8015MS NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category _____

MODIFIED 8015 - FUEL HYDROCARBONS

COMPOUND	RESULT	DET	LIMIT	ANALYST
C5 - C12 Gasoline Range	<u>84.3</u>		0.2	<u>RMM</u>
C10 - C16 Jet Fuel Range	<u>ND</u>		0.2	DATE INJECTED <u>07/11/88</u>
C9 - C22 Diesel Range	<u>ND</u>		0.2	DILUTION FACTOR <u>1.00</u>
				VERIFIED <u>WMS</u>

NOTE: All results reported in ug/kg unless otherwise specified
ND = Not detected at the specified limits

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Received: 06/30/88

TMA Inc. REPORT
Results by Sample

Work Order # BB-06-176

SAMPLE ID 2300-2-3

FRACTION 03A TEST CODE 8015M NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category _____

MODIFIED 8015 -- FUEL HYDROCARBONS

COMPOUND	RESULT	DET	LIMIT	ANALYST	RMM
C5 - C12 Gasoline Range	ND		0.03		
C10 - C16 Jet Fuel Range	ND		0.03		DATE INJECTED <u>07/11/88</u>
C9 - C22 Diesel Range	5.0		0.03		DILUTION FACTOR <u>1.00</u>
					VERIFIED <u>WMC</u>

NOTE: All results reported in mg/L unless otherwise specified
ND = Not detected at the specified limits

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Received: 06/30/88

TMA Inc. REPORT
Results by Sample

Work Order # 88-06-176

SAMPLE ID 2300-2-4

FRACTION 04A TEST CODE 8015MS NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category _____

MODIFIED 8015 - FUEL HYDROCARBONS

COMPOUND	RESULT	DET	LIMIT	ANALYST	RMM
C5 - C12 Gasoline Range	<u>182</u>		0.2		
C10 - C16 Jet Fuel Range	<u>ND</u>		0.2	DATE INJECTED	<u>07/12/88</u>
C9 - C22 Diesel Range	<u>ND</u>		0.2	DILUTION FACTOR	<u>1.00</u>
				VERIFIED	<u>WMC</u>

NOTE: All results reported in mg/Kg unless otherwise specified
ND = Not detected at the specified limits

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Received: 06/30/88

TMA Inc. REPORT
07/18/88 15:41:20

Work Order # 88-06-176

TMA/NORCAL

As requested, four samples were analyzed in accordance with US EPA method 8015 modified. Please see the attached tables for the results.

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Received: 07/06/88

TMA Inc.

REPORT

Work Order # 88-07-013

07/18/88 14:48:26

REPORT TMA/NORCAL
TO 2030 Wright Ave
Richmond, CA 94804

PREPARED Thermo Analytical, Inc
BY 160 Taylor Street
Menlo Park, CA 94016

Wendy Cortes
CERTIFIED BY

ATTEN Sample Control

ATTEN _____
PHONE 618-357-3247

CONTACT WMC

CLIENT TMA NORCAL SAMPLES 5
COMPANY TMA/NORCAL
FACILITY _____

This report is for the sole and exclusive use of the client to whom it is addressed and represents only those samples herein described. Samples not destroyed in testing are retained a maximum of 30 days unless otherwise requested.

WORK ID Project: 2300-3
TAKEN Unknown
TRANS By UPS
TYPE Water & Soils
P. O. # 7012
INVOICE under separate cover

Results reported via telecon to George Dunstan on 7/18/88.

SAMPLE IDENTIFICATION

TEST CODES and NAMES used on this report

- 01 2300-3-1
- 02 2300-3-3
- 03 2300-3-4
- 04 2300-3-6
- 05 2300-3-7

- 8015M Fuels-Total Hydrocarbons
- 8015MS Fuels-Total Hydrocarbons

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Received: 07/06/88

TMA Inc. REPORT
Results by Sample

Work Order # 88-07-013

SAMPLE ID 2300-3-1

FRACTION 01A TEST CODE 8015M NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category _____

MODIFIED 8015 - FUEL HYDROCARBONS

COMPOUND	RESULT	DET	LIMIT	ANALYST	RRM
C5 - C12 Gasoline Range	<u>257</u>		0.05	DATE INJECTED	<u>07/13/88</u>
C10 - C16 Jet Fuel Range	<u>ND</u>		0.05	DILUTION FACTOR	<u>1.00</u>
C9 - C22 Diesel Range	<u>ND</u>		0.05	VERIFIED	<u>WMC</u>

NOTE: All results reported in mg/L unless otherwise specified
ND = Not detected at the specified limits

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Received: 07/06/88

TMA Inc. REPORT
Results by Sample

Work Order # 88-07-013

SAMPLE ID 2300-3-3 FRACTION 02A TEST CODE B015MS NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category _____

MODIFIED B015 - FUEL HYDROCARBONS

COMPOUND	RESULT	DET	LIMIT	ANALYST
C5 - C12 Gasoline Range	<u>120</u>		0.2	<u>RRM</u>
C10 - C16 Jet Fuel Range	<u>ND</u>		0.2	DATE INJECTED <u>07/13/88</u>
C9 - C22 Diesel Range	<u>ND</u>		0.2	DILUTION FACTOR <u>1.00</u>
				VERIFIED <u>WMC</u>

NOTE: All results reported in mg/Kg unless otherwise specified
ND = Not detected at the specified limits

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Received: 07/06/88

TMA Inc. REPORT
Results by Sample

Work Order # 88-07-013

SAMPLE ID 2300-3-4

FRACTION 03A TEST CODE 8015MS NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category

MODIFIED 8015 -- FUEL HYDROCARBONS

COMPOUND	RESULT	DET	LIMIT	ANALYST	RRM
C5 - C12 Gasoline Range	ND		0.2	DATE INJECTED	07/13/88
C10 - C16 Jet Fuel Range	ND		0.2	DILUTION FACTOR	1.00
C9 - C22 Diesel Range	ND		0.2	VERIFIED	WMC

NOTE: All results reported in mg/Kg unless otherwise specified
ND = Not detected at the specified limits

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Received: 07/06/88

TMA Inc. REPORT
Results by Sample

Work Order # 88-07-013

SAMPLE ID 2300-3-6

FRACTION 04A TEST CODE 8015MS NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category _____

MODIFIED 8015 -- FUEL HYDROCARBONS

COMPOUND	RESULT	DET	LIMIT	ANALYST	RRM
C5 - C12 Gasoline Range	ND		0.2		
C10 - C16 Jet Fuel Range	ND		0.2	DATE INJECTED	07/13/88
C9 - C22 Diesel Range	ND		0.2	DILUTION FACTOR	1.00
				VERIFIED	WMC

NOTE: All results reported in µg/Kg unless otherwise specified
ND = Not detected at the specified limits

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Received: 07/06/88

TMA Inc. REPORT
Results by Sample

Work Order # 88-07-013

SAMPLE ID 2300-3-7

FRACTION 05A TEST CODE 8015MS NAME Fuels-Total Hydrocarbons
Date & Time Collected not specified Category _____

MODIFIED 8015 - FUEL HYDROCARBONS

COMPOUND	RESULT	DET	LIMIT	ANALYST
C5 - C12 Gasoline Range	<u>627</u>		0.2	<u>RRM</u>
C10 - C16 Jet Fuel Range	<u>ND</u>		0.2	DATE INJECTED <u>07/13/88</u>
C9 - C22 Diesel Range	<u>ND</u>		0.2	DILUTION FACTOR <u>1.00</u>
				VERIFIED <u>WMC</u>

NOTE: All results reported in mg/Kg unless otherwise specified
ND = Not detected at the specified limits

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Received: 07/06/88

TMA Inc.

REPORT

Work Order # 88-07-013

07/18/88 14:48:26

TMA/NORCAL

As requested, five samples were analyzed in accordance with US EPA method 2015 modified. Please see the attached tables for the results.

Alameda County Health Department
May 19, 1989
page 4

A P P E N D I X B

PolyMatrix Associates Field and Analytical Data



May 12, 1989

Abdo S. Allen Co.
718 Douglas Avenue
Oakland, CA 94603
Attn: Abdo Allen

Subject: Analytical results for four (4) soil samples collected April 22, 1989.
Daddy G's Car Wash, Oakland, CA.
Project# 325

Dear Mr. Allen:

Analytical results are complete for the four (4) soil samples analyzed for headspace petroleum hydrocarbons.

The results are displayed in the attached appendix A. The sample sites are displayed in the attached figure 1.

Field Procedures: On April 22, 1989 Fred Davis of PolyMatrix Associates collected four soil (4) samples for total petroleum hydrocarbons response as gasoline. The soils were taken from two areas, the first area was the excavation site of a gasoline tank removed approximately one year prior to the sampling request. The second area of soil sample collection was the slurry pile aerating near the excavation site. The soils were collected by driving brass cores into the site location, covering the open ends with aluminum foil, capping with plastic ends, and then sealed with PVC tape. The samples were labeled, placed on chain-of-custody forms, and packed in blue ice for transportation to the laboratory.

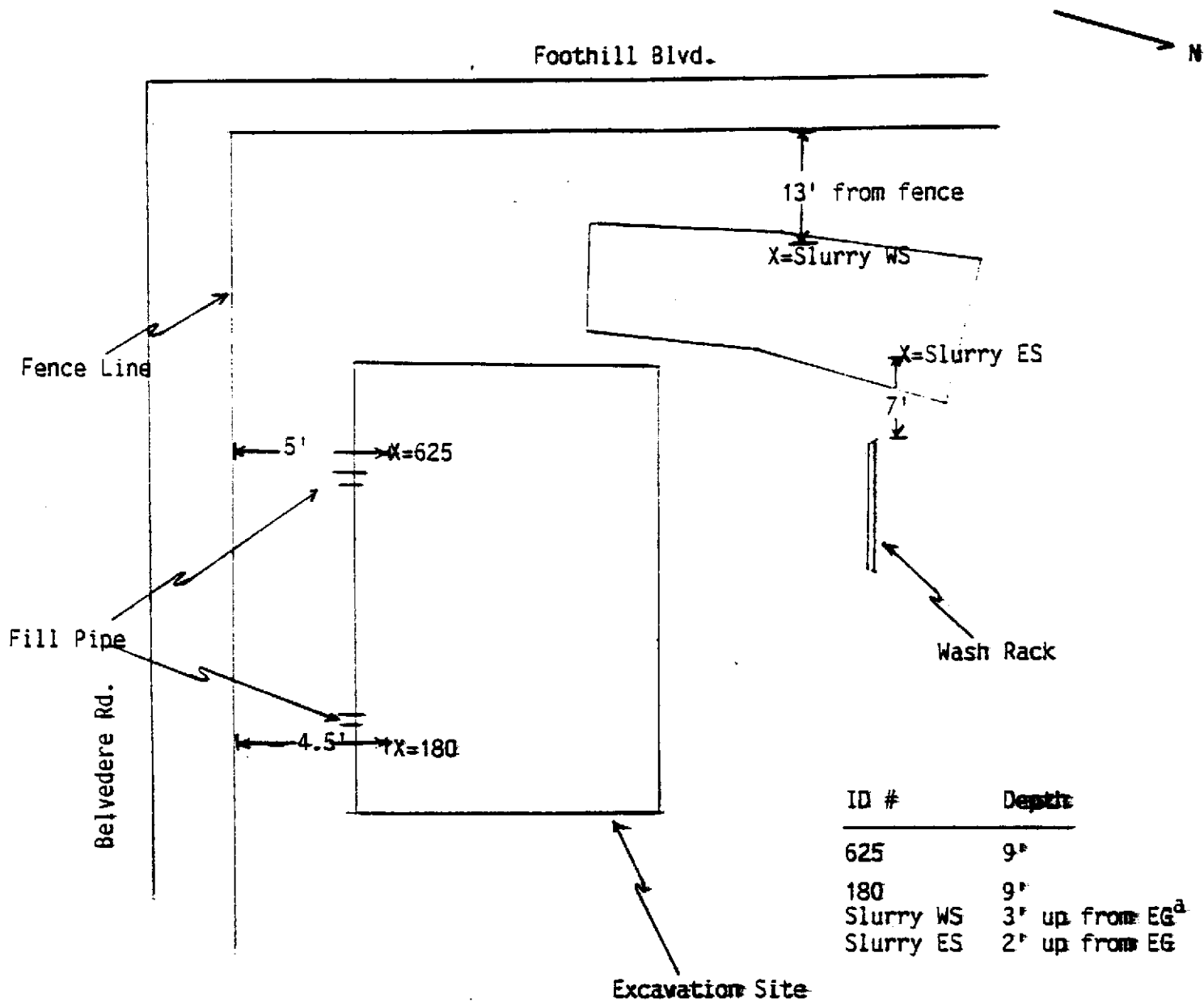
If you should have any questions regarding this report, please feel free to call upon me at your convenience.

Thank You,

Fred Davis
PolyMatrix Associates

enclosures

Figure 1.
 Sample Site Location, 5330 Foothill Blvd., Oakland, CA



ID #	Depth
625	9'
180	9'
Slurry WS	3' up from EG ^a
Slurry ES	2' up from EG

a - EG, Existing Grade.

Abdo Allen
5/12/89
page 3

A P P E N D I X A
Performing Laboratory's Report



NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Formerly: ANATEC Labs, Inc.

Fred Davis
Polymatrix Associates
191 Harder Rd, Ste 25
Hayward, CA 94544

05-09-89
NET Pacific Log No: 6220
Series No: 359
Client Ref: Fred Davis

Subject: Analytical Results for Daddy G's Car Wash Received 04-24-89

Dear Ms. Davis:

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Submitted by:

Approved by:

Brian Fies
Group Leader
Atomic Spectroscopy

Susan J. Griffin
Group Leader
Gas Chromatography

/ara

Enc: Sample Custody Document

KEY TO ABBREVIATIONS

- mean : Average; the sum of the measurements divided by the total number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample, unless noted otherwise.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- ND : Not detected; the analyte concentration is less than the listed reporting limit.
- NR : Not requested.
- NTU : Nephelometric turbidity units.
- RL : Reporting limit.
- RPD : Relative percent difference, $[(V^1 - V^2) / V \text{ mean}] \times 100$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- ug/filter : Concentration in units of micrograms of analyte per filter.
- umhos/cm : Micromhos per centimeter.
- * : See cover letter for details.

THE COVER LETTER AND KEY TO ABBREVIATIONS ARE AN INTEGRAL PART OF THIS REPORT

SAMPLE DESCRIPTION: #625 04-22-89 1310
 LAB NO.: (-26246)

<u>Parameter</u>	<u>Reporting Limit</u>	<u>Results</u>	<u>Units</u>
PETROLEUM HYDROCARBONS			
Volatile, as Gasoline DATE ANALYZED	10	ND 05-03-89	mg/Kg

SAMPLE DESCRIPTION: #180 04-22-89 1300
 LAB NO.: (-26247)

<u>Parameter</u>	<u>Reporting Limit</u>	<u>Results</u>	<u>Units</u>
PETROLEUM HYDROCARBONS			
Volatile, as Gasoline DATE ANALYZED	10	260 ^a 05-03-89	mg/Kg

SAMPLE DESCRIPTION: Slurry WS 04-22-89 1325
 LAB NO.: (-26248)

<u>Parameter</u>	<u>Reporting Limit</u>	<u>Results</u>	<u>Units</u>
PETROLEUM HYDROCARBONS			
Volatile, as Gasoline DATE ANALYZED	10	79 ^a 05-03-89	mg/Kg

SAMPLE DESCRIPTION: Slurry ES 04-22-89 1318
 LAB NO.: (-26249)

<u>Parameter</u>	<u>Reporting Limit</u>	<u>Results</u>	<u>Units</u>
PETROLEUM HYDROCARBONS			
Volatile, as Gasoline DATE ANALYZED	10	10 ^a 05-03-89	mg/Kg

^aSample contains higher boiling hydrocarbons not characteristic of gasoline.

