



PORT OF OAKLAND

June 1, 1995

Ms. Jennifer Eberle
Hazardous materials Specialist
Hazardous Materials Division
Alameda County Health
Care Services Agency
1131 Harbor bay Parkway
Alameda, CA 94502-6577

**SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT,
TRANSBAY CONTAINER TERMINAL (TBCT), 707 FERRY
STREET, OAKLAND, CALIFORNIA**

Dear Ms. Eberle:

Enclosed, you will find a copy of the Report of Groundwater Monitoring and Sampling for Transbay Container Terminal (TBCT), 707 Ferry Street, Oakland, California.

Please call me at 272-1118 if you have any questions or comments. Thank you for your assistance on this project.

Sincerely,

Susa Gates
Associate Environmental Scientist

SG\jb

Enclosure

cc: Rich Hiett, San Francisco Regional Water Quality Control Board, 2101 Webster Street, Suite 500, Oakland, CA 94612
Neil Werner (Environmental Department)
John DeGeorge (Alisto)

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ENVIRONMENTAL
95 JUN -8 PM 2:29

GROUNDWATER MONITORING AND SAMPLING REPORT

**Port of Oakland
Berth 25
707 Ferry Street
Oakland, California**

Project No. 10-255-01-001

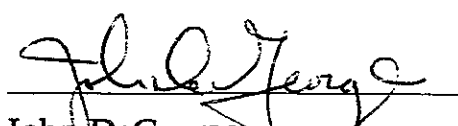
Prepared for:


**Port of Oakland
530 Water Street
Oakland, California**

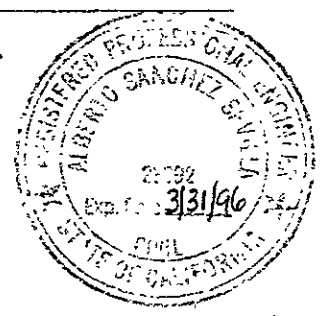
Prepared by:

**Alisto Engineering Group
1777 Oakland Boulevard, Suite 200
Walnut Creek, California**

May 16, 1995


**John DeGeorge
Geologist**


**Al Sevilla, P.E.
Principal**



GROUNDWATER MONITORING AND SAMPLING REPORT

Port of Oakland
Berth 25
707 Ferry Street
Oakland, California

Project No. 10-255-01-001

May 16, 1995

INTRODUCTION

This report presents the results and findings of the February 22, 1995 groundwater monitoring and sampling conducted by Alisto Engineering Group at the Port of Oakland, Berth 25, 707 Ferry Street, Oakland, California. A site vicinity map is shown in Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

Before purging and sampling, the groundwater level in each well was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The depth to groundwater and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean lower low water. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Before sample collection, each well was purged of 3 casing volumes while recording field readings of pH, temperature, and electrical conductivity. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in each well. The samples were transferred from the bailer into laboratory-supplied containers. The field procedures for groundwater monitoring well sampling and the water sampling field survey forms are presented in Appendix A.

SAMPLING AND ANALYTICAL RESULTS

The groundwater samples were analyzed by Clayton Environmental Consultants, Inc., a state-certified laboratory, for the following:

- Total petroleum hydrocarbons as diesel (TPH-D) using EPA Method 8015 (modified)
- Total petroleum hydrocarbons as motor oil (TPH-MO) using EPA Method 8015 (modified)



- Benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8020
- Total dissolved solids (TDS) using EPA Method 160.1

The results of monitoring and laboratory analysis of the groundwater samples for this and previous events are summarized in Table 1. The potentiometric groundwater elevations as interpreted from the results of this monitoring event are shown in Figure 2. The field procedures for chain of custody documentation and the laboratory report and chain of custody record are presented in Appendix B.

SUMMARY OF FINDINGS

The findings of the February 22, 1995 groundwater monitoring and sampling event are summarized as follows:

- Free product or sheen was not observed in Monitoring Well MW-1.
- Depth to groundwater in MW-1 was measured at 9.66 feet below the top of the well casing.
- TPH-D and TPH-MO were detected at concentrations of 990 and 120 micrograms per liter in the sample collected from Monitoring Well MW-1. Benzene, toluene, ethylbenzene, and total xylenes were not detected above the reported detection limit in this sample.
- TDS was detected at a concentration of 1100 milligrams per liter in MW-1.



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING AND SAMPLING
 PORT OF OAKLAND, BERTH 25
 707 FERRY STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-255

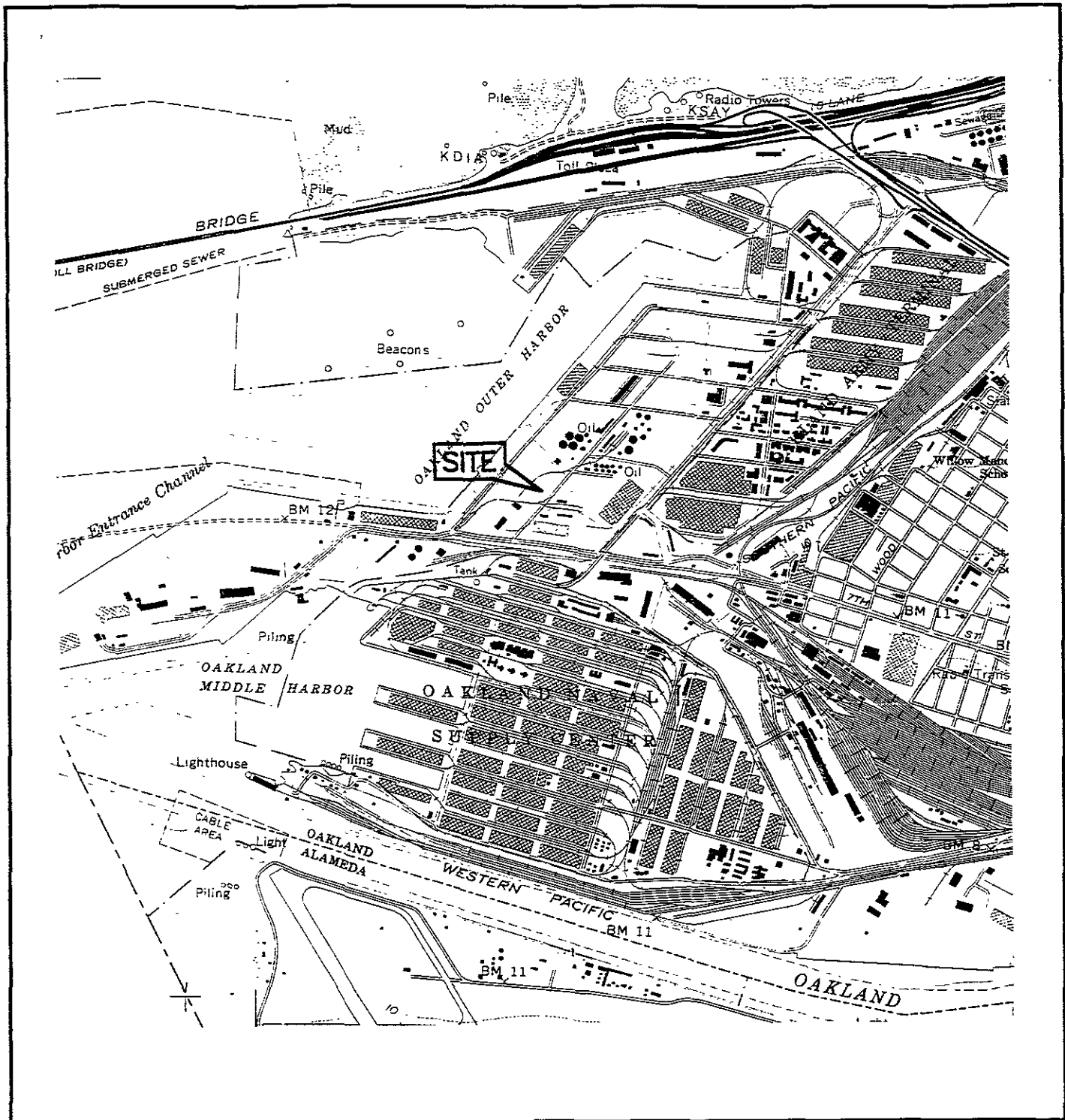
WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (feet)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION (b) (feet)	TPH-D (ug/l)	TPH-MO (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	TDS (mg/l)	LAB
MW-1	06/09/94	14.65	9.88	4.77	410	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1900	D&M
MW-1	02/22/95	14.65	9.66	4.99	990	120	ND<0.4	ND<0.3	ND<0.3	ND<0.4	1100	CEC
QC-1 (c)	02/22/95	14.65	---	---	---	---	ND<0.4	ND<0.3	ND<0.3	ND<0.4	---	CEC
QC-2 (d)	02/22/95	---	---	---	---	---	ND<0.4	ND<0.3	ND<0.3	ND<0.4	---	CEC

ABBREVIATIONS:

TPH-D Total petroleum hydrocarbons as diesel
 TPH-MO Total petroleum hydrocarbons as motor oil
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 TDS Total dissolved solids
 ug/l Micrograms per liter
 mg/l Milligrams per liter
 --- Not analyzed/applicable
 ND Not detected above reported detection limit
 D&M D&M Laboratories
 CEC Clayton Environmental Consultants

NOTES:

(a) Top of casing elevations surveyed to the nearest 0.01 foot relative to mean lower low water (3.2 feet below mean sea level, Port of Oakland Datum).
 (b) Groundwater elevations expressed in feet above mean lower low water.
 (c) Blind duplicate.
 (d) Travel blank.



SOURCE:
 USGS MAP, OAKLAND WEST QUADRANGLE,
 7.5 MINUTE SERIES, 1959.
 PHOTOREVISED 1980.

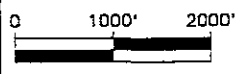
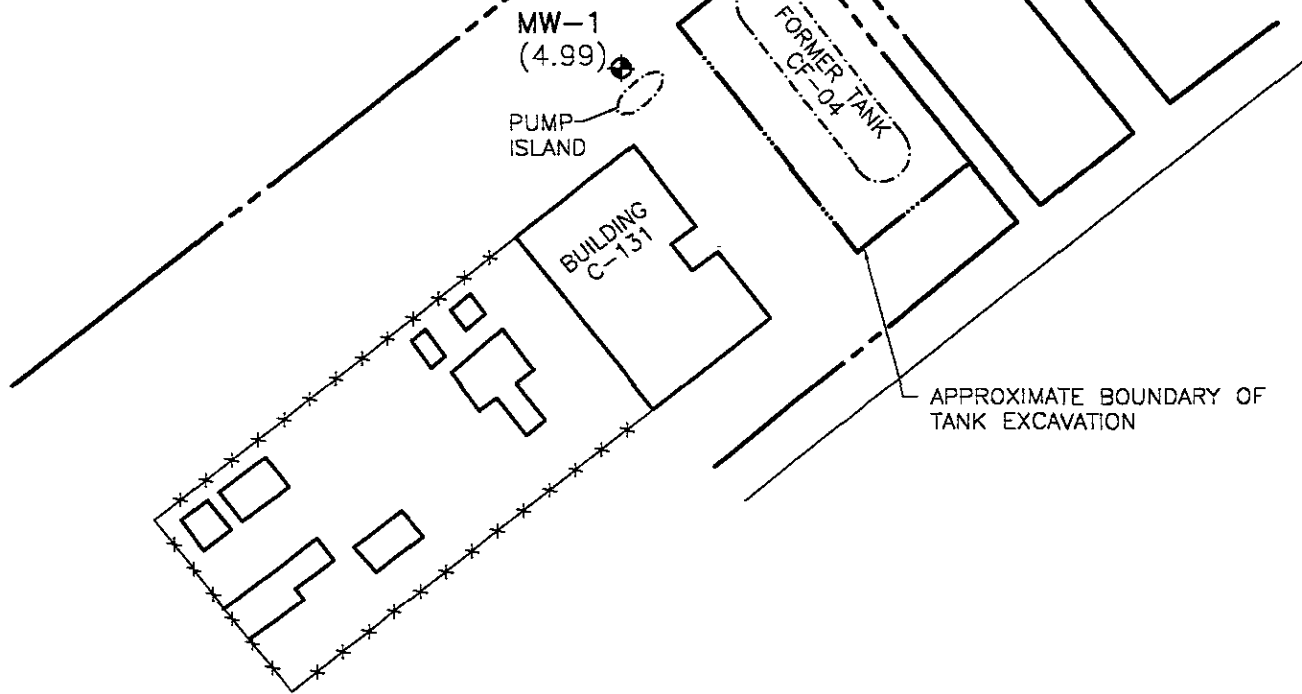
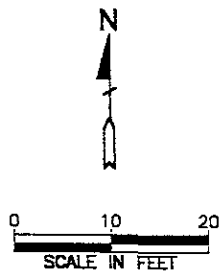


FIGURE 1
SITE VICINITY MAP

PORT OF OAKLAND
 BERTH 25
 707 FERRY STREET
 OAKLAND, CALIFORNIA
 PROJECT NO. 10-255



1-1 NOV 85-12-3-DWG-085520



LEGEND

- ⊕ GROUNDWATER MONITORING WELL
- (4.99) GROUNDWATER ELEVATION IN FEET ABOVE MEAN LOWER LOW WATER

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION MAP
FEBRUARY 22, 1995
 PORT OF OAKLAND
 BERTH 25
 707 FERRY STREET
 OAKLAND, CALIFORNIA
 PROJECT NO. 10-255



102550-M.DWG 5-4-95 BRW 1"=20'

APPENDIX A

**FIELD PROCEDURES FOR
GROUNDWATER MONITORING WELL SAMPLING
AND WATER SAMPLING FIELD SURVEY FORMS**

**FIELD PROCEDURES
FOR
GROUNDWATER MONITORING WELL SAMPLING**

Groundwater Level Measurement

Before commencing groundwater sampling, the groundwater level in each well was measured from a marked survey reference point at the top of the well casing. Groundwater in each well was monitored for free-floating product or sheen. The depth to groundwater was measured to an accuracy of 0.01 foot from the top of the PVC well casing using an electronic sounder.

Groundwater Monitoring Well Sampling

To ensure that the groundwater samples were representative of the aquifer, the wells were purged of 3 well casing volumes before sample collection. This purging was accomplished using a clean bailer or pump.

The groundwater samples were collected using a disposable bailer, and then transferred into laboratory-supplied containers. Care was taken to avoid turbulence when transferring the water samples, and all volatile analysis vials were filled so that no air bubbles were trapped. The sampling technician wore nitrile gloves at all times during purging and well sampling. The samples were labeled with the well number, site identification, date and time of sample collection, and sampler's initials, and transported in an iced cooler maintained at 4 degrees Centigrade to Clayton Environmental Consultants, a state-certified laboratory, following preservation and chain of custody protocol.

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP

Groundwater Sampling

Date: 2/22/95 Project No. 10-255-01-001

Day: M T (W) Th F Facility No. _____

1777 OAKLAND BLVD, STE 200

Barometric pres. NA

Temp. 61°F Address 707 Ferry St. Oakland CA

WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

SAMPLER: DL

Well ID	SAMPLE #	WATER	time	Well ID	SAMPLE #	WATER/	time	Well ID	SAMPLE	WATER / time
MW-1	-	9.66	1635							

FIELD INSTRUMENT CALIBRATION DATA

PH METER Hycac 4.00 7.00 10.00 _____ TIME 1640 TEMPERATURE COMPENSATED N

TURBIDI METER _____ 5.0 NTU STANDARD _____ OTHER _____

CONDUCTIVITY METER Hycac 10,000 OTHER _____

Well ID	Depth to Water	Diam	Cap/Lock	Depth to prod.	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-1	9.66	2"	OK	1	Y N	1	1643	66.1	7.07	1.54		<input type="checkbox"/> EPA 601 _____
Total Depth - Water Level =						2	1646	65.2	7.12	1.55		<input checked="" type="checkbox"/> TPH-G/BTEX <u>1700</u>
14.85 - 9.66 = 5.19 x .16 = 0.83 x 3 = 2.49						2.5	1648	65.2	7.15	1.56		<input checked="" type="checkbox"/> TPH Diesel <u>1700</u>
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input checked="" type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> Sys Port												<input checked="" type="checkbox"/> TOG 5520 _____
Comments:												Time/Sample 1655

Well ID	Depth to Water	Diam	Cap/Lock	Depth to prod.	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
					Y N							<input type="checkbox"/> EPA 601 _____
Total Depth - Water Level =												<input type="checkbox"/> TPH-G/BTEX _____
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> Sys Port												<input type="checkbox"/> TPH Diesel _____
Comments:												<input type="checkbox"/> TOG 5520 _____

Well ID	Depth to Water	Diam	Cap/Lock	Depth to prod.	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
					Y N							<input type="checkbox"/> EPA 601 _____
Total Depth - Water Level =												<input type="checkbox"/> TPH-G/BTEX _____
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> Sys Port												<input type="checkbox"/> TPH Diesel _____
Comments:												<input type="checkbox"/> TOG 5520 _____

APPENDIX B

**FIELD PROCEDURES FOR CHAIN OF CUSTODY DOCUMENTATION,
LABORATORY REPORT, AND CHAIN OF CUSTODY RECORD**

**FIELD PROCEDURES
FOR
CHAIN OF CUSTODY DOCUMENTATION**

All samples were handled in accordance with the California Department of Health Services guidelines. Samples were labeled in the field and immediately stored in coolers and preserved with blue ice for transport to a state-certified laboratory for analysis.

A chain of custody record accompanied the samples, and included the site and sample identification, date and time of collection, analysis requested, and the name and signature of the sampling technician. When transferring possession of the samples, the transferee signed and dated the chain of custody record.

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

March 10, 1995

Mr. Brady Nagle
ALISTO ENGINEERING GROUP
1777 Oakland Blvd. #200
Walnut Creek, CA 94596

Client Ref.: 10-255-01-001
Clayton Project No.: 95022.93

Dear Mr. Nagle:

Attached is our analytical laboratory report for the samples received on February 24, 1995. Also enclosed is a copy of the Chain-of-Custody record acknowledging receipt of these samples.

Please note that any unused portion of the samples will be discarded after April 9, 1995, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact Suzanne Haus, Client Services Supervisor, at (510) 426-2657.

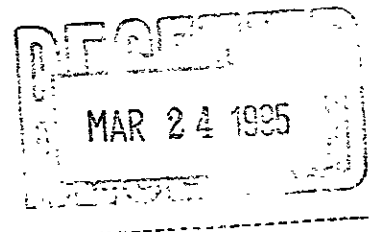
Sincerely,



Harriotte A. Hurley, CIH
Director, Laboratory Services
San Francisco Regional Office

HAH/caa

Attachments



Analytical Results
for
Alisto Engineering Group
Client Reference: 10-255-01-001
Clayton Project No. 95022.93

Sample Identification: MW-1	Date Sampled: 02/22/95 ✓
Lab Number: 9502293-01A	Date Received: 02/24/95
Sample Matrix/Media: WATER	Date Prepared: 03/07/95
Preparation Method: EPA 5030	Date Analyzed: 03/07/95
Method Reference: EPA 8020	Analyst: NAN

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
1,4-Difluorobenzene	540-36-3	97	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
 for
 Alisto Engineering Group
 Client Reference: 10-255-01-001
 Clayton Project No. 95022.93

Sample Identification: QC-1	Date Sampled: 02/22/95
Lab Number: 9502293-02A	Date Received: 02/24/95
Sample Matrix/Media: WATER	Date Prepared: 03/07/95
Preparation Method: EPA 5030	Date Analyzed: 03/07/95
Method Reference: EPA 8020	Analyst: NAN

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
1,4-Difluorobenzene	540-36-3	98	50 - 150

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

Analytical Results
for
Alisto Engineering Group
Client Reference: 10-255-01-001
Clayton Project No. 95022.93

Sample Identification:	QC-2 / TB # 0013195	Date Sampled:	02/22/95
Lab Number:	9502293-03A	Date Received:	02/24/95
Sample Matrix/Media:	WATER	Date Prepared:	03/07/95
Preparation Method:	EPA 5030	Date Analyzed:	03/07/95
Method Reference:	EPA 8020	Analyst:	NAN

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
1,4-Difluorobenzene	540-36-3	98	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
for
Alisto Engineering Group
Client Reference: 10-255-01-001
Clayton Project No. 95022.93

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9502293-04A	Date Received:	--
Sample Matrix/Media:	WATER	Date Prepared:	03/07/95
Preparation Method:	EPA 5030	Date Analyzed:	03/07/95
Method Reference:	EPA 8020	Analyst:	NAN

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
1,4-Difluorobenzene	540-36-3	99	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
 for
 Alisto Engineering Group
 Client Reference: 10-255-01-001
 Clayton Project No. 95022.93

Sample Identification: See Below
 Lab Number: 9502293
 Sample Matrix/Media: WATER
 Extraction Method: EPA 3510
 Method Reference: EPA 8015 (Modified)

Date Received: 02/24/95
 Date Extracted: 02/28/95
 Date Analyzed: 03/02/95

Lab Number	Sample Identification	Date Sampled	TPH-D (ug/L)	Method Detection Limit (ug/L)
-01	MW-1	02/22/95	1100 v a	50
-04	METHOD BLANK	--	ND	50

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

TPH-D = Extractable petroleum hydrocarbons from C10 to C42 quantitated as diesel.
 a Sample does not match the typical diesel pattern.
 Sample appears to be oil.

Analytical Results
 for
 Alisto Engineering Group
 Client Reference: 10-255-01-001
 Clayton Project No. 95022.93

Sample Identification: See Below
 Lab Number: 9502293
 Sample Matrix/Media: WATER
 Method Reference: EPA 160.1

Date Received: 02/24/95
 Date Analyzed: 02/28/95

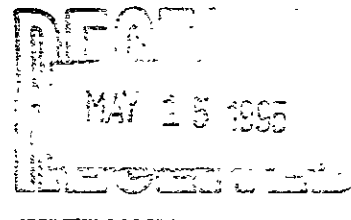
Lab Number	Sample Identification	Date Sampled	Total Dissolved Solids (mg/L)	Method Detection Limit (mg/L)
-01	MW-1	02/22/95	1100	10
-04	METHOD BLANK	--	<10	10

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

May 15, 1995



Mr. John DeGeorge
ALISTO ENGINEERING GROUP
1575 Treat Blvd., Suite 201
Walnut Creek, CA 94588

ADDITIONAL REPORT
Client Ref.: 10-255-01-001
Clayton Project No.: 95022.93

Dear Mr. DeGeorge:

Attached is our additional analytical laboratory report for the samples received on February 24, 1995 and originally reported on March 10, 1995. As requested on April 26, 1995, we have quantitated Sample MW-1 as TPH-Diesel and TPH-Oil. The diesel chromatogram for this sample is also attached.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact Suzanne Haus, Client Services Supervisor, at (510) 426-2657.

Sincerely,

Harriotte A. Hurley, CIH
Director, Laboratory Services
San Francisco Regional Office

HAH/caa

Attachments

Analytical Results
 for
 Alisto Engineering Group
 Client Reference: 10-255-01-001
 Clayton Project No. 95022.93

Sample Identification: See Below
 Lab Number: 9502293
 Sample Matrix/Media: WATER
 Extraction Method: EPA 3510
 Method Reference: EPA 8015 (Modified)

Date Received: 02/24/95
 Date Extracted: 02/28/95
 Date Analyzed: 03/02/95

Lab Number	Sample Identification	Date Sampled	TPH-D (ug/L)	Method Detection Limit (ug/L)
-01	MW-1	02/22/95	990 ✓	50
-04	METHOD BLANK	--	ND	50

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

TPH-D = Extractable petroleum hydrocarbons from C10 to C20 quantitated as diesel.

Analytical Results
 for
 Alisto Engineering Group
 Client Reference: 10-255-01-001
 Clayton Project No. 95022.93

Sample Identification: See Below
 Lab Number: 9502293
 Sample Matrix/Media: WATER
 Extraction Method: EPA 3510
 Method Reference: EPA 8015 (Modified)

Date Received: 02/24/95
 Date Extracted: 02/28/95
 Date Analyzed: 03/02/95

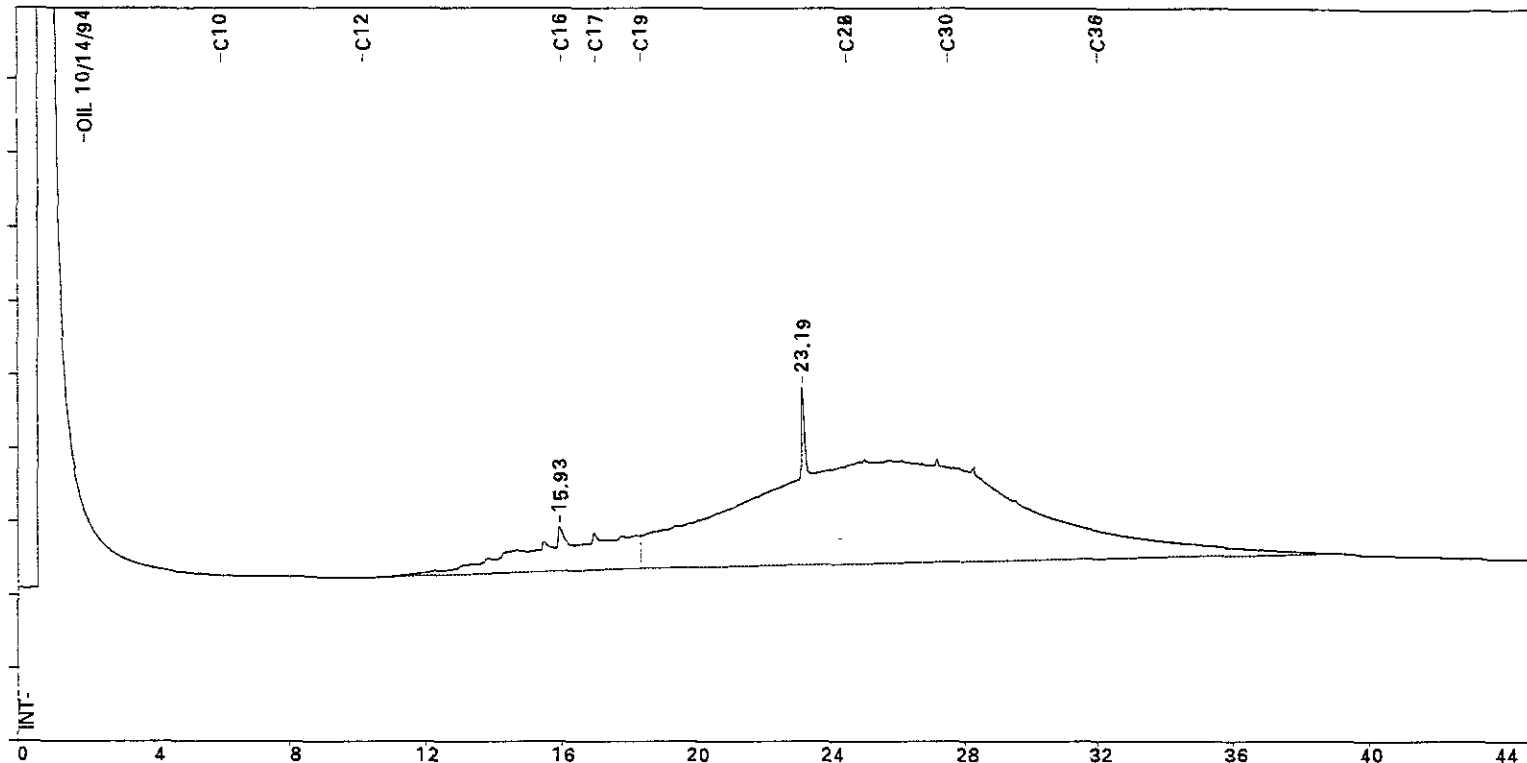
Lab Number	Sample Identification	Date Sampled	TPH-O (ug/L)	Method Detection Limit (ug/L)
-01	MW-1	02/22/95	120 ✓	200
-04	METHOD BLANK	--	ND	200

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

TPH-O = Extractable petroleum hydrocarbons from C20 to C42 quantitated as motor oil.

Sample Name=9502293-01C

0.0 to 45.0 min. Low Y=-50.0 High Y=300.0 mv Span=350.0



Clayton Environmental Consultants, Pleasanton, California

Sample Name: 9502293-01C (MW-1)

Printed: 05-09-1995_20:14:26

Dilution Factor: 1
Sample Weight: 1055

Date: 03-02-1995 23:38:00
Operator: FK

Area Rejected: 100

Instrument:02883 FRONT (Y)
EXTERNAL_STD Calibrated

Data File: M:\CP\GC-1\Y02C.11R Cycle# 11

Method File: !!M:\CP\GC-1\YOIL\$.MET..ver# -32. 01/10/95 15:43:44

Calibr File: !!M:\CP\GC-1\YOIL\$.CAL..ver# -5 .

Analysis: TPH EXT TEMP 80C(6')10C/M 300C(17') 2UL

Miscl.

Ret time	Amount	Peak	Peak	Peak	Ref	Amount
Pk# (min)	Peak Name	PPM	Area	Type	Height Pk	/Area
1 15.925		0.1239	3715869	BB	21148	0.3335E-07
2 23.190		0.9931	29776446	BB	85884	0.3335E-07

Total Area = 3.349231E+07; Instrument Actual Amount = 1178.502 PPM

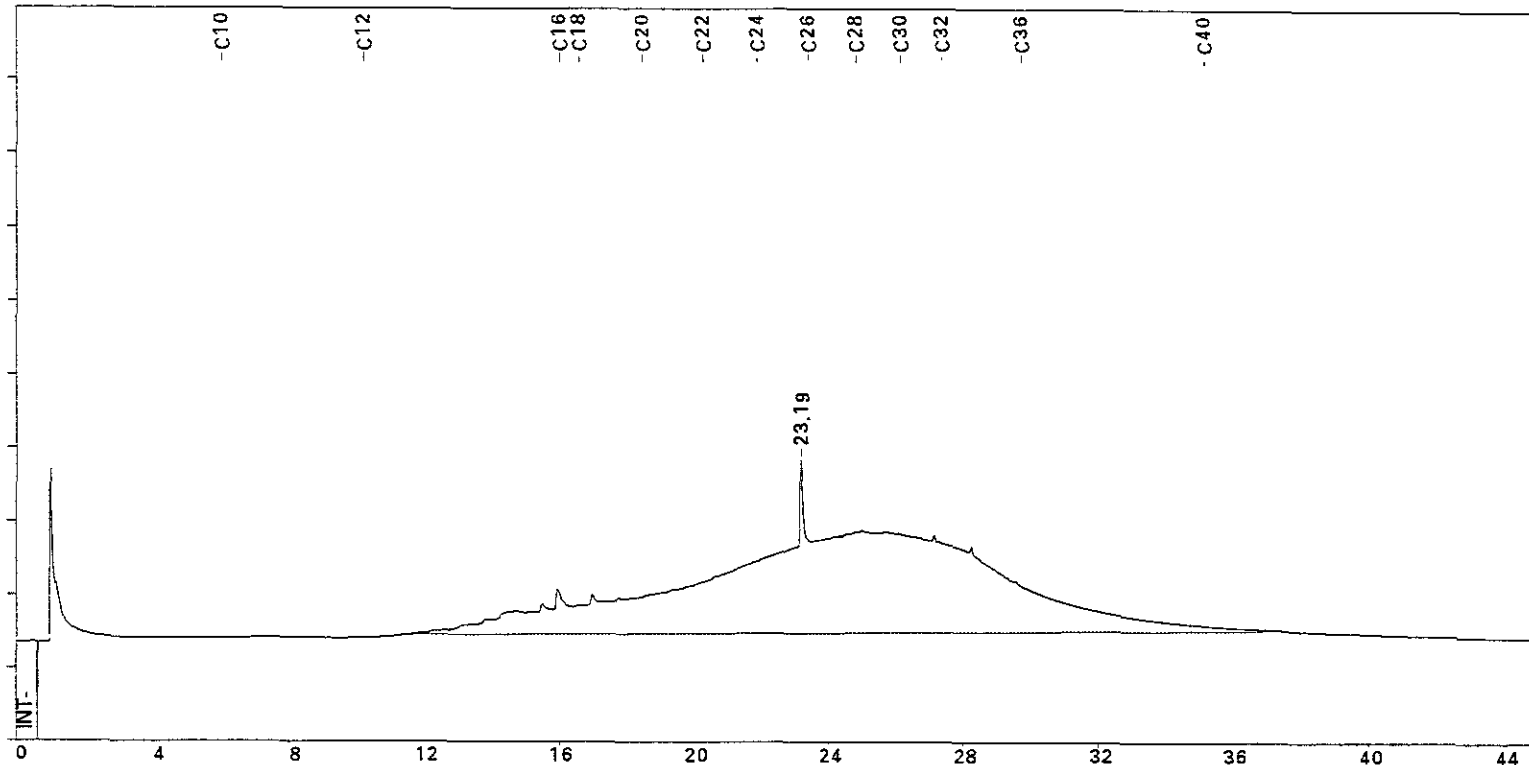
TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS = 1.117063mg/kg (ppm)

OR 1117.063 ug/L (ppb)

File: M:\CP\GC-1\Y02C.11R

Sample Name=9502293-01C

0.0 to 45.0 min. Low Y=-50.0 High Y=320.0 mv Span=370.0



Clayton Environmental Consultants, Pleasanton, California

Sample Name: 9502293-01C (MW-1)

Printed: 03-03-1995_14:55:26

Dilution Factor: 1
Sample Weight: 1055

Date: 03-02-1995 23:38:00
Operator: FK

Area Rejected: 100

Instrument: 02883 FRONT (Y)
EXTERNAL_STD Calibrated

Data File: M:\CP\GC-1\Y02C\$.11R Cycle# 11
Method File: !M:\CP\GC-1\YD2.MET..ver# -2 . 11/25/94 16:50:20
Calibr File: !M:\CP\GC-1\YDIESEL\$.CAL..ver# -8 .
Analysis: TPH EXT TEMP 80C(6') 10C/M 310C(17') 2UL
Misc1.

Ret time	Amount	Peak	Peak	Peak	Ref	Amount
Pk# (min)	PPM	Area	Type	Height	Pk	/Area
1 23.190	1.0755	34181776	BB	89146		0.3146E-07

Total Area = 3.418178E+07; Instrument Actual Amount = 1134.605 PPM

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS = 1.075455mg/kg (ppm)

OR 1075.455 ug/L (ppb)

File: M:\CP\GC-1\Y02C\$.11R