

THE SUTTON GROUP

1480 MORAGA RD, #395
MORAGA CA, 94556

SOILS, FOUNDATIONS, DRAINAGE, CONTAINMENTS
CIVIL, GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING

PHONE (925) 631-1688
FAX (925) 631-1371

June 9, 1999

REPLY AND REPORT TO JUNE 14, 99

Mr. Michael Cortez
Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, 94580

ENVIRONMENTAL
PROTECTION
99 JUN 11 PM 3:10

SUBJECT:

**RESULTS OF QUARTERLY SAMPLING OF GROUND WATER MONITORING WELLS
FORMER GASOLINE TANK SITE CLOSURE
2600 GRANT AVE., SAN LORENZO, CA
OLSD PO No. 4911, SG FILE No. 3022.9**

ST ID 1996

Dear Mike:

We attach results for the second round of quarterly sampling of the three ground water monitoring wells in the general vicinity of the District's Engineering Department office building. This work has been performed in accordance with Contract Amendment Number 6, and with the Work Plan for this project dated December 18, 1998. The Work Plan was approved by Alameda County Health Care Agency's Environmental Protection Division (LOP) in their letter dated January 26, 1999. The wells were installed in February 1999. Documentation and the first sampling results were conveyed to Alameda County in our report dated March 16, 1999. The sampling program was concurred by LOP in their letter dated March 31, 1999.

Sampling Results

Water samples were collected from each of the wells on May 10, 1999. Additionally, a trip blank was prepared by the laboratory and accompanied the sample containers as a monitor of possible relict contamination. Since all the samples were 'non-detect' the blank was not analyzed. The attached table is a summary of the water sample analyses for gasoline and its key constituents.

A review of Sequoia Analytical's report dated May 24, 1999 indicated no detection of MTBE. The reporting limit for MTBE analysis by EPA 8015 in this sampling round was 2µg/l, in accordance with RWQCB guidance. In the initial sampling, the County's requested analysis for oxygenates including MTBE was performed by EPA method 8260 at a reporting limit of 1µg/l, resulting in a reported MTBE presence of 1.49µg/l. On this basis, we asked the laboratory to review the data in consideration of the previously reported value. The revised report dated May 26, 1999 indicated an estimated MTBE presence at 1.54µg/l, corroborating the previous value.

Discussion of Test Boring Soil Sample Analyses

In the LOP's letter dated March 31, 1999, we were requested to verify the reporting units for gasoline and benzene in soil as reported for the one soil sample with positive analyte, Boring

2/MW-2. We contacted Sequoia Analytical regarding these results, and we also reviewed Sequoia reports for this and other projects for the last five-plus years. It is noted that Sequoia has consistently reported results for gas-BTEX in soil samples using the units of parts per billion (ppb), as in the subject report.

Future Sampling

The water sampling for gasoline and key constituents will be repeated in August and November, 1999.

A copy of this report has been sent directly to Mr. Amir Gholami Alameda County Health Care Agency's Environmental Protection Division (LOP) in Alameda.

We appreciate the opportunity to be of continued service to The District. Please call me if I can assist you in any other way.

Yours truly,

THE SUTTON GROUP


John R. Sutton, PE/GE

Attachments: Summary of Water Sample Analyses, TPH as Gasoline, BTEX and MTBE Analytical Report, Sequoia Analytical, dated May 24, 1999.

Two Copies Sent

One copy sent to Mr. Amir Gholami at Alameda County (LOP)

SUMMARY OF WATER SAMPLE ANALYSES

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

EPA METHOD 8015M/8020M

results in $\mu\text{g/l}$ (ppb)

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
MW-1	2/19/99	ND	ND	ND	ND	ND	ND
	5/10/99	ND	ND	ND	ND	ND	ND
MW-2	2/19/99	ND	ND	ND	ND	ND	ND
	5/10/99	ND	ND	ND	ND	ND	ND
MW-3	2/19/99	ND	ND	ND	ND	ND	1.49 ¹
	5/10/99	ND	ND	ND	ND	ND	[1.54 ²]
DUP (MW-3)	2/19/99	ND	ND	ND	ND	ND	N/A
TRIP BLANK	2/10-22/99	ND	ND	ND	ND	ND	N/A
	5/8-20/99	N/A	N/A	N/A	N/A	N/A	N/A
REPORTING LIMITS		50.0	0.500	0.500	0.500	0.500	2.00 ²

NOTES:

- ND Analyte not detected at stated reporting limit
- N/A Not analyzed
- 1. Analyzed by EPA method 8260B, reporting limit was 1 $\mu\text{g/l}$.
- 2. Estimated value below method reporting limit.

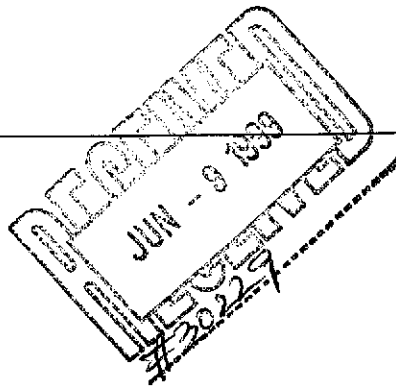
ORO LOMA SANITARY DISTRICT, STID 1996

30229 tables for round 2: 5.26.99



Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342



May 24, 1999

John Sutton, PE
The Sutton Group
1480 Moraga Rd., #395
Moraga, CA 94556-2620

RE: Oro Loma Sanitation District/P905365

Dear John Sutton, PE

Enclosed are the results of analyses for sample(s) received by the laboratory on May 12, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott Forbes
Project Manager

CA ELAP Certificate Number 2245

JUN 0 1999





The Sutton Group 1480 Moraga Rd., #395 Moraga, CA 94556-2620	Project: Oro Loma Sanitation District Project Number: SG3022 Project Manager: John Sutton, PE	Sampled: 5/10/99 Received: 5/12/99 Reported: 5/24/99
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ANALYTICAL REPORT FOR P905365

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
051099A/MW3	P905365-01	Water	5/10/99
051099B/MW2	P905365-02	Water	5/10/99
051099C/MW1	P905365-03	Water	5/10/99

JUN 08 1999





The Sutton Group 1480 Moraga Rd., #395 Moraga, CA 94556-2620	Project: Oro Loma Sanitation District Project Number: SG3022 Project Manager: John Sutton, PE	Sampled: 5/10/99 Received: 5/12/99 Reported: 5/24/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>P905365-01</u>			<u>Water</u>	
Gasoline	9050547	5/20/99	5/20/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	1.54	"	J
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		106	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		99.0	"	
				<u>P905365-02</u>			<u>Water</u>	
Gasoline	9050547	5/20/99	5/20/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		105	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		97.3	"	
				<u>P905365-03</u>			<u>Water</u>	
Gasoline	9050547	5/20/99	5/20/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		103	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		104	"	





The Sutton Group 1480 Moraga Rd., #395 Moraga, CA 94556-2620	Project: Oro Loma Sanitation District Project Number: SG3022 Project Manager: John Sutton, PE	Sampled: 5/10/99 Received: 5/12/99 Reported: 5/24/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9050547		Date Prepared: 5/20/99		Extraction Method: EPA 5030 waters						
Blank		9050547-BLK1								
Gasoline	5/20/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.00				
Surrogate: a,a,a-Trifluorotoluene	"	300		305	"	65.0-135	102			
Surrogate: 4-Bromofluorobenzene	"	300		296	"	65.0-135	98.7			
LCS		9050547-BS1								
Gasoline	5/20/99	1000		969	ug/l	65.0-135	96.9			
Surrogate: 4-Bromofluorobenzene	"	300		298	"	65.0-135	99.3			
Matrix Spike		9050547-MS1		P905246-01						
Gasoline	5/20/99	1000	ND	922	ug/l	65.0-135	92.2			
Surrogate: 4-Bromofluorobenzene	"	300		281	"	65.0-135	93.7			
Matrix Spike Dup		9050547-MSD1		P905246-01						
Gasoline	5/20/99	1000	ND	939	ug/l	65.0-135	93.9	20.0	1.83	
Surrogate: 4-Bromofluorobenzene	"	300		276	"	65.0-135	92.0			





The Sutton Group
1480 Moraga Rd., #395
Moraga, CA 94556-2620

Project: Oro Loma Sanitation District
Project Number: SG3022
Project Manager: John Sutton, PE

Sampled: 5/10/99
Received: 5/12/99
Reported: 5/24/99

Notes and Definitions

#	Note
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- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference



Reporting Information:

1. Client: Oro Loma Sanitary District
 Address: 2600 Grant Avenue
 San Diego CA 94580
 Contact: Mike Cortez
 Alt. Contact:

THE SUTTON GROUP

Engineering and Environmental Services
~~31 Shady Drive~~
 Moraga, California, 94556-2620
 phone (510) 631-1688 fax (510) 631-1371
 THE SUTTON GROUP
 1480 Moraga Rd # 295
 Moraga, CA 94556
 Send Invoice To: (925) 631-1688 FAX 631-1371

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: _____
 Lab Destination: _____
 Date Samples Shipped: 5/10/99
 Lab Contact: Scott Forbes
 Date Results Required: 5/25/99 or sooner
 Date Report Required: 5/25/99
 Client Phone No.: 925-631-1688
 Client FAX No.: 925-631-1371

Address Report To:
 John Sutton, PE
 The Sutton Group
~~1480 Moraga Rd #295~~
 Moraga, CA, 94556-2620

3. Oro Loma Sanitary District
 At Mike Cortez
 PQ # 4911

Send Report To: 1 or 2 (Circle one)

Client P.O. No.: _____ Client Project I.D. No.: SG3022

Sample Team Member (s) _____

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS	Comments / Hazards
051099A	MW3	—	5/10/99	HQ	HQ	3	VOL	GOOD BTEX* MTBE* (Diagonal lines)	Very low levels < 10 ppb of each
051099B	MW2	—		(7)		3			
051099C	MW1	—				3			

COOLER CUSTODY SEALS INTACT NOT INTACT N/A
 COOLER TEMPERATURE 6 °C

*RWD/CB

Relinquished by: <i>[Signature]</i> Signature)	DATE: 5/10/99 TIME: 1PM	Received by: Fridge@OCS D 6 (Signature)	DATE: 5/10/99 TIME: 1PM
Relinquished by: <i>[Signature]</i> Signature)	DATE: _____ TIME: _____	Received by: <i>[Signature]</i> (Signature)	DATE: 5-11-99 TIME: 15H
Relinquished by: <i>[Signature]</i> Signature)	DATE: _____ TIME: _____	Received by: <i>[Signature]</i> (Signature)	DATE: 5-12-1999 TIME: _____
Method of Shipment: <i>[Signature]</i>	DATE: 5-12-1999	Lab Comments: <i>[Signature]</i>	DATE: 5/10/99 TIME: 1630

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb filter
 4) PVC filter, diam. _____ pore size _____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
 10) Other _____ 11) Other _____