

THE SUTTON GROUP

1480 MORAGA ROAD
SUITE I PMB 395
MORAGA CA, 94556

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

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

January 17, 2000

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

RECEIVED
1/26/00
AC
STID 1996

ENVIRONMENTAL
PROTECTION
09 JAN 20 PM 3:30

SUBJECT:

**REPORT 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 have completed four quarters of sampling 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, dated October 23, 1998 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.

Wells and Sampling Program

The three wells were installed in February 1999. Documentation of the installation, including drilling logs, and results of the *first sampling* were conveyed to Alameda County LOP in our report dated March 16, 1999. Logs of the well borings were transmitted to Alameda County Public Works Agency in a letter dated March 16, 1999. The sampling program was concurred by LOP in their letter dated March 31, 1999. The results of the *second sampling* were transmitted to Alameda County LOP in our report dated June 9, 1999. The results of the *third sampling* were transmitted to Alameda County LOP in our report dated September 21, 1999. Following each sampling, a confirmatory letter was received from the LOP's case officer, Mr. Amir Gholami.

The *fourth sampling* was performed in late November, 1999. Following indication of petroleum-constituents in one sample not heretofore detected at any concentration, that well was re-sampled in December, 1999. This is discussed below.

Samples were transmitted under chain-of-custody and analyzed by Sequoia Analytical's Petaluma laboratory, ELAP No. I-2374. Analysis was for gasoline, benzene, toluene, ethyl benzene and methyl tert-butyl ether (MTBE) in accordance with the guideline procedure of the San Francisco Regional Water Quality Control Board using a modified EPA Method 8015/8020 procedure. In the initial sampling, an additional analysis for the 'Oxy-Seven' compounds was performed in February 1999 in response to a request from the LOP.

A second pair of samples were collected from well MW-3 on December 27, 1999. The November well sample had indicated a first-time presence of ethyl benzene, toluene and (total) xylenes. The pair of supplementary samples from MW-3 were analyzed at Sequoia Analytical's Walnut Creek laboratory, ELAP No. 1271.

Sampling Results

The attached Tables 1 and 2 contain all water sample results. Table 1 includes results for four quarterly analyses for gasoline, BTEX and MTBE. Table 2 presents the results of the one-time analysis of the 'Seven Oxygenates' performed in February, 1999.

The three monitoring wells have indicated a general absence of gasoline and its key constituent compounds, with the exception of the final sampling of MW-3 in November, which indicated a low presence of toluene, xylenes, and ethyl benzene, and of MTBE. MTBE was indicated in the initial analysis for well MW-3, as part of the oxygenate analysis which was performed by EPA Method 8260. The lesser reporting limit indicated a presence of MTBE in well MW-3 at approximately 1.5 µg/l, which is below the customary reporting limit of 2.0 µg/l

The one-time presence of toluene, xylenes, and ethyl benzene in MW-3 in November, along with an absence of MTBE was peculiar, thus a supplementary sampling was performed. The results, presented on Table 1, indicate a previous absence of the gasoline constituents. Thus the results have been presented in parentheses. The re-sampling did indicate a presence of MTBE in well MW-3, at a slightly higher level than in the previous samplings.

Discussion

The three monitoring wells were installed at the request of the LOP to provide data about ground water conditions at this site, which is located immediately upgradient of the District's POTW. In previous investigations and technical evaluations of this former tank site by The Sutton Group¹, it was concluded that contaminants emanating from the tank site were contained by the geological materials. This conclusion was concurred by Mr. Kevin Graves of the San Francisco Bay Regional Water Quality Control Board. Further, the report concluded:

1. The ground water investigations had confirmed that the sewer trench backfill beneath the Grant Avenue sidewalk provides an impervious barrier to off site transport of gasoline-tainted ground water emanating from the former gasoline tank site.
2. The trench backfill envelope acts as a collection and transport conduit for this tainted water, transporting it into the District's adjacent sewage treatment plant (POTW).
3. Native soils upon which the treatment plant is founded are organic-rich bayland deposits enhanced by the POTW presence. By their nature, the soils beneath the sewage treatment

¹ The Sutton Group, 1998: 'Report Of Supplemental Site Evaluation In The Vicinity Of The Former Site Of The 1,000 Gallon Gasoline Tank At The Oro Loma Sanitary District Service Center San Lorenzo, California' dated July 13, 1998, Prepared for Mr. Mike Cortez at the Oro Loma Sanitary District, and submitted to Alameda County Environmental Health Agency's Ground Water Protection Division.

plant comprise an active bio-reactor, known to be entirely capable of digesting and decomposing gasoline constituents in ground water.

It was thus concluded in that report that tainted ground water emanating from the former tank location is contained and thus does not threaten the public, nor waters of the State.

On that basis, two of the wells, MW-1 and MW-2, were sited in Grant Avenue, outside the containment barrier. The third, MW-3 was sited northwest of the tank site, and separated from it by the trench for a sanitary sewer branch. The site, tank site, flow path and well locations are

Conclusion

This ground water sampling program has shown a general absence of gasoline and its key components. It shows that hazardous gasoline constituents emanating from the site have not permeated the containment barrier. Thus they pose no threat to the public nor to the environment.

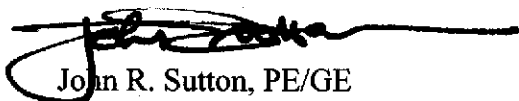
Recommendation

Based upon the above conclusion, It is recommended that the ground water sampling program be terminated, and the three monitoring wells closed

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

Yours truly,

THE SUTTON GROUP



John R. Sutton, PE/GE

Geotechnical Engineer No. 812
Civil Engineer No. 40324
Licenses valid till 12/31/2002

Attachments:

- Table 1 Summary of Ground Water Sample Analyses
- Table 2 Summary of Ground Water Analyses: Selected Oxygenates and Additives
- Figure 1 Location of Ground Water Monitoring Wells
- Analytical Report, Sequoia Analytical, dated December 7, 1999.
- Analytical Report, Sequoia Analytical, dated January 6, 2000.

Two Copies Sent

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

TABLE 1
SUMMARY OF GROUND WATER SAMPLE ANALYSES
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE
EPA METHOD 8015M/8020M
results in µg/l (ppb)

<i>SAMPLE LOCATION</i>	<i>SAMPLE DATE</i>	<i>GASOLINE</i>	<i>BENZENE</i>	<i>TOLUENE</i>	<i>ETHYL BENZENE</i>	<i>XYLENES (TOTAL)</i>	<i>MTBE</i>
MW-1	2/19/99	ND	ND	ND	ND	ND	ND
	5/10/99	ND	ND	ND	ND	ND	ND
	8/30/99	N/A	ND	ND	ND	ND	ND
	11/23/99	ND	ND	ND	ND	ND	ND
DUP	11/23/99	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
	8/30/99	N/A	ND	ND	ND	ND	ND
	11/23/99	ND	ND	ND	ND	ND	ND
MW-3	2/19/99	ND	ND	ND	ND	ND	1.5 ¹
DUP	2/19/99	ND	ND	ND	ND	ND	N/A
	5/10/99	ND	ND	ND	ND	ND	1.5 ²
	8/30/99	N/A	ND	ND	ND	ND	ND
	11/23/99	ND	ND	[0.69] ³	[0.58] ³	[1.3] ³	ND
	1/6/00	ND	ND	ND	ND	ND	3.1 ⁴
DUP	1/6/00	ND	ND	ND	ND	ND	2.6 ⁴
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
	8/27-31/99	N/A	N/A	N/A	N/A	N/A	N/A
REPORTING LIMITS		50.0	0.50	0.50	0.50	0.50	2.00

NOTES:

- ND Analyte not detected at stated reporting limit
- N/A Not analyzed
- 1. Analyzed by EPA method 8260B, reporting limit was 1 µg/l.
- 2. Estimated value below method reporting limit of 2 µg/l.
- 3. Inconsistent contaminant pattern. Sample result spurious, re-sampled
- 4. Reporting limit at 2.5 µg/l.

ORO LOMA SANITARY DISTRICT, STID 1996

30229 TABLE 1 for round 4a:

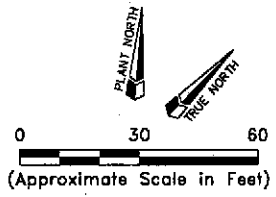
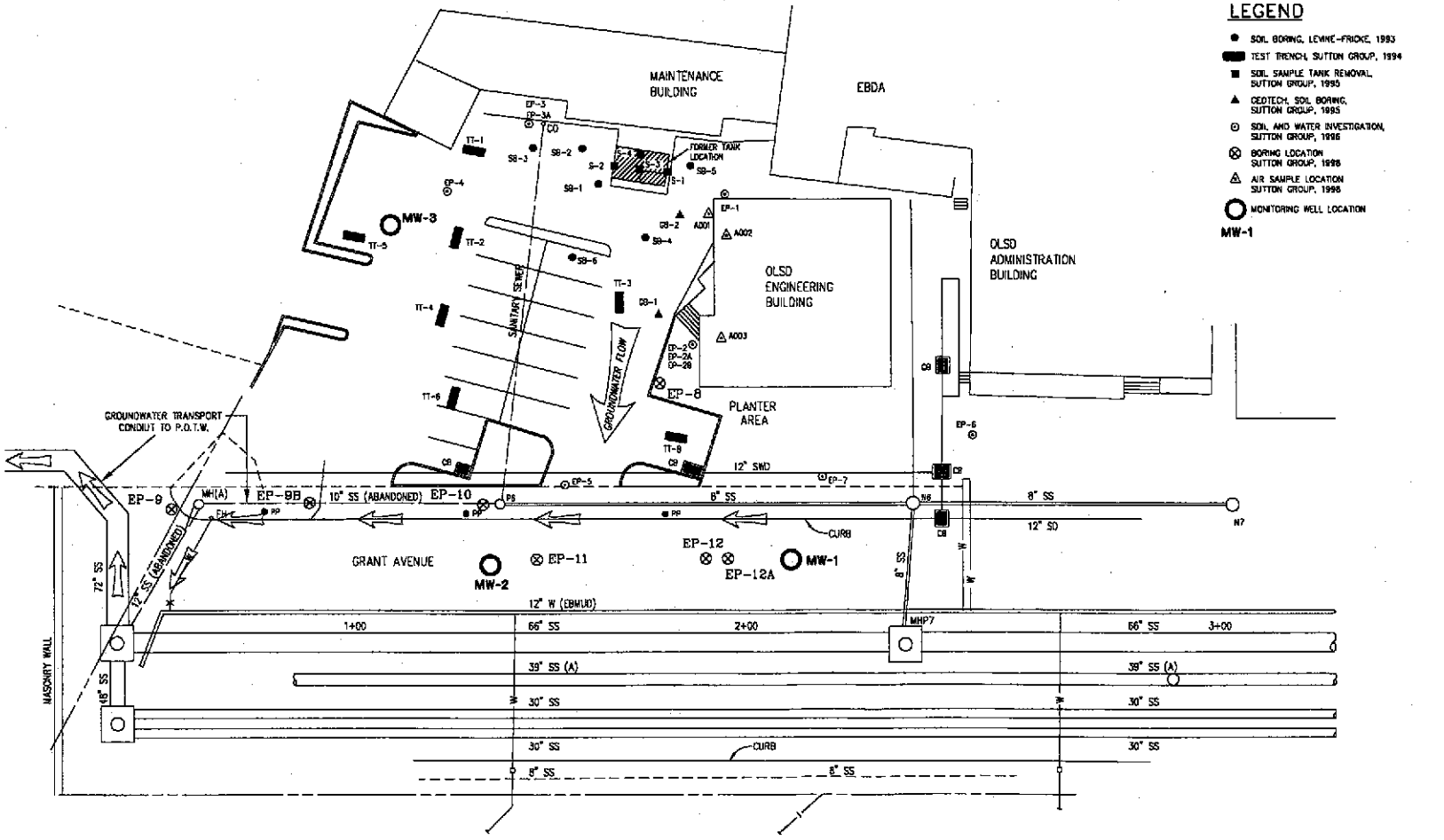
TABLE 2
SUMMARY OF GROUND WATER SAMPLE ANALYSES
SELECTED FUEL OXYGENATES AND ADDITIVES
EPA METHOD 8015M/8020M
RESULTS IN µg/l (ppb)

SAMPLE ID/ LOCATION	TERT-AMYL METHYL ETHER (TAME)	TERT-BUTYL ALCOHOL (TBA)	DI-ISOPROPYL ETHER (DIPE)	1,2-DIBROMO ETHANE (EDB)	1,2-DICHLORO ETHANE (EDC / 1,2 DCA)	ETHANOL	ETHYL TERT-BUTYL ETHER (ETBE)	METHYL TERT-BUTYL ETHER (MTBE)
021999A MW-1	ND	ND	ND	ND	ND	ND	ND	ND
021999B MW-2	ND	ND	ND	ND	ND	ND	ND	ND
021999C MW-3	ND	ND	ND	ND	ND	ND	ND	1.49
REPORTING LIMITS	1.00	20.0	1.00	0.500	0.500	100	1.00	1.00

Samples collected 2/19/99

TRB LONG PLOT 17360

SEWAGE TREATMENT PLANT



- LEGEND**
- SOIL BORING, LEVINE-FRISKE, 1993
 - TEST TRENCH, SUTTON GROUP, 1994
 - SOIL SAMPLE TANK REMOVAL, SUTTON GROUP, 1995
 - ▲ CEOTECH. SOIL BORING, SUTTON GROUP, 1995
 - SOIL AND WATER INVESTIGATION, SUTTON GROUP, 1996
 - ⊗ BORING LOCATION, SUTTON GROUP, 1996
 - △ AIR SAMPLE LOCATION, SUTTON GROUP, 1996
 - MONITORING WELL LOCATION, MW-1

PROJECT NO. 3022.9
FIGURE 1
3/19/99

Location Map
Ground Water Monitoring Wells
1,000 Gallon Gasoline Tank Area
ORO LOMA SANITARY DISTRICT
SAN LORENZO, CALIFORNIA

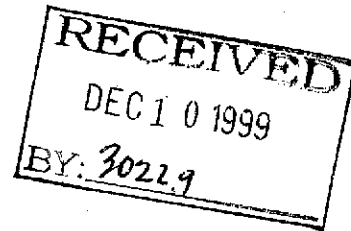
THE SUTTON GROUP
Engineering and Environmental Services
1480 Moraga Road, Suite 1
Moraga, California 94556
Phone (925) 631-1688
fax (925) 631-1371



Sequoia Analytical

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

December 7, 1999



John Sutton, PE
The Sutton Group
1480 Moraga Road., Suite 1
Moraga, CA 94556-2006

DEC 07 1999

RE: Oro Loma Sanitation District/P911670

Dear John Sutton, PE

Enclosed are the results of analyses for sample(s) received by the laboratory on November 24, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michelle M. Portis
Project Manager

CA ELAP Certificate Number I-2374





The Sutton Group 1480 Moraga Road., Suite 1 Moraga, CA 94556-2006	Project: Oro Loma Sanitation District Project Number: SG30228/Oro Loma Project Manager: John Sutton, PE	Sampled: 11/23/99 Received: 11/24/99 Reported: 12/3/99
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ANALYTICAL REPORT FOR P911670

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
112301	P911670-01	Water	11/23/99
112302	P911670-02	Water	11/23/99
112303	P911670-03	Water	11/23/99
112304	P911670-04	Water	11/23/99





1999

The Sutton Group 1480 Moraga Road., Suite 1 Moraga, CA 94556-2006	Project: Oro Loma Sanitation District Project Number: SG30228/Oro Loma Project Manager: John Sutton, PE	Sampled: 11/23/99 Received: 11/24/99 Reported: 12/7/99
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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>P911670-01</u>			<u>Water</u>		
Gasoline	9110711	11/30/99	12/1/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	0.692	"	
Ethylbenzene	"	"	"		0.500	0.577	"	
Xylenes (total)	"	"	"		0.500	1.27	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		100	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		106	"	
			<u>P911670-02</u>			<u>Water</u>		
Gasoline	9110711	11/30/99	12/1/99		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		101	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		104	"	
			<u>P911670-03</u>			<u>Water</u>		
Gasoline	9110711	11/30/99	12/1/99		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		99.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		106	"	
			<u>P911670-04</u>			<u>Water</u>		
Gasoline	9110711	11/30/99	12/1/99		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		99.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		106	"	





DEC 07 1999

The Sutton Group 1480 Moraga Road., Suite 1 Moraga, CA 94556-2006	Project: Oro Loma Sanitation District Project Number: SG30228/Oro Loma Project Manager: John Sutton, PE	Sampled: 11/23/99 Received: 11/24/99 Reported: 12/7/99
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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.	RPD	RPD	Notes*
						Recov. Limits	%	Limit	%	
Batch: 9110711		Date Prepared: 11/30/99			Extraction Method: EPA 5030 waters					
Blank		9110711-BLK1								
Gasoline	11/30/99			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		289	"	65.0-135	96.3			
Surrogate: 4-Bromofluorobenzene	"	300		297	"	65.0-135	99.0			
LCS		9110711-BS1								
Gasoline	11/30/99	1000		1050	ug/l	65.0-135	105			
Surrogate: 4-Bromofluorobenzene	"	300		291	"	65.0-135	97.0			
Matrix Spike		9110711-MS1		P911680-01						
Gasoline	11/30/99	1000	ND	1030	ug/l	65.0-135	103			
Surrogate: 4-Bromofluorobenzene	"	300		288	"	65.0-135	96.0			
Matrix Spike Dup		9110711-MSD1		P911680-01						
Gasoline	11/30/99	1000	ND	1030	ug/l	65.0-135	103	20.0	0	
Surrogate: 4-Bromofluorobenzene	"	300		287	"	65.0-135	95.7			





The Sutton Group 1480 Moraga Road., Suite 1 Moraga, CA 94556-2006	Project: Oro Loma Sanitation District Project Number: SG30228/Oro Loma Project Manager: John Sutton, PE	Sampled: 11/23/99 Received: 11/24/99 Reported: 12/3/99
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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:

THE SUTTON GROUP

1. Client: ORO LOMA SANITARY DISTRICT
 Address: 2600 Grant Avenue
San Lorenzo CA, 94580
 Contact: Michael Cortez
 Alt. Contact: _____

Engineering and Environmental Services
 51 Shuey Drive
 Moraga, California, 94556-2620
 phone (510) 631-1688 fax (510) 631-1371

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: _____
 Lab Destination: Segura Petaluma
 Date Samples Shipped: 11/23/99
 Lab Contact: Michelle Porter
 Date Results Required: 12/6/99
 Date Report Required: 12/9/99
 Client Phone No.: 925-631-1688
 Client FAX No.: 925-631-1371

Address Report To:

Send Invoice To:

JOHN SUTTON
THE SUTTON GROUP
 1480 MORAGA Road, Suite I,
 Moraga, CA, 94556-2006
 (925) 631-1688, FAX (925) 631-1371

3. Oro Loma Sanitary District
2600 Grant Ave
San Lorenzo, CA, 94580
Att. Mr. Michael Cortez

Client P.O. No.: _____ Client Project I.D. No.: SG30228

Sample Team Member(s) Sutton

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS	Comments / Hazards
<u>112301</u>	<u>P911670-01</u>	<u>01</u>	<u>11/23</u>	<u>7</u>	<u>HCP</u>	<u>3</u>	<u>40µm</u>	<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> CAS BTEX M/TBE </div>	Analysis by SFRW&CB procedure 80/5-8020 with RW&CB detection limits
<u>112302</u>	<u>↓</u>	<u>02</u>	<u>11/23</u>	<u>7</u>	<u>1</u>	<u>10µm</u>			
<u>112303</u>	<u>↓</u>	<u>03</u>	<u>11/23</u>	<u>7</u>	<u>1</u>	<u>1</u>			
<u>112304</u>	<u>↓</u>	<u>04</u>	<u>11/23</u>	<u>7</u>	<u>1</u>	<u>1</u>			
								Very low to <u>ND</u> expected.	

W/LEAK CHECK TESTS INTACT NOT INTACT
 AMBIENT TEMPERATURE 5 °C

Relinquished by: (Signature) <u>[Signature]</u>	DATE <u>11/23/99</u>	TIME <u>1:15pm</u>	Received by: (Signature) <u>OLSD Fridge (LAB)</u>	DATE <u>11/23/99</u>	TIME <u>1:15pm</u>
Relinquished by: (Signature) _____	DATE _____	TIME _____	Received by: (Signature) <u>N. Maina</u>	DATE <u>11/23/99</u>	TIME <u>10:15</u>
Relinquished by: (Signature) <u>N.</u>	DATE <u>11/24/99</u>	TIME <u>1:30pm</u>	Received by: (Signature) <u>[Signature]</u>	DATE <u>11/24/99</u>	TIME <u>1:00</u>
Method of Shipment _____			Lab Comments _____		

*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 _____



Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

6 January, 2000

John Sutton
The Sutton Group
1480 Moraga Road Suite # 395
Moraga, CA 94556

RE: Oro Loma Sanitary District

Enclosed are the results of analyses for samples received by the laboratory on 27-Dec-99 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager





The Sutton Group
1480 Moraga Road Suite # 395
Moraga CA, 94556

Project: Oro Loma Sanitary District
Project Number: OLSA-30229
Project Manager: John Sutton

Reported:
06-Jan-00 17:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
122799-01	W912539-01	Water	27-Dec-99 14:30	27-Dec-99 17:10
122799-02	W912539-02	Water	27-Dec-99 14:40	27-Dec-99 17:10





The Sutton Group 1480 Moraga Road Suite # 395 Moraga CA, 94556	Project: Oro Loma Sanitary District Project Number: OLSD-30229 Project Manager: John Sutton	Reported: 06-Jan-00 17:38
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
122799-01 (W912539-01) Water Sampled: 27-Dec-99 14:30 Received: 27-Dec-99 17:10									
Purgeable Hydrocarbons	ND	50	ug/l	1	0A03004	03-Jan-00	03-Jan-00	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	3.1	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93.0 %	70-130	"	"	"	"	"	
122799-02 (W912539-02) Water Sampled: 27-Dec-99 14:40 Received: 27-Dec-99 17:10									
Purgeable Hydrocarbons	ND	50	ug/l	1	0A03004	03-Jan-00	03-Jan-00	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	2.6	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.0 %	70-130	"	"	"	"	"	

Julianne Fegley, Project Manager





The Sutton Group
1480 Moraga Road Suite # 395
Moraga CA, 94556

Project: Oro Loma Sanitary District
Project Number: OLSLSD-30229
Project Manager: John Sutton

Reported:
06-Jan-00 17:38

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0A03004: Prepared 03-Jan-00 Using EPA 5030B [P/T]

Blank (0A03004-BLK1)

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	32.8		"	30.0		109	70-130			

LCS (0A03004-BS1)

Benzene	21.0	0.50	ug/l	20.0		105	70-130			
Toluene	21.3	0.50	"	20.0		106	70-130			
Ethylbenzene	21.0	0.50	"	20.0		105	70-130			
Xylenes (total)	60.1	0.50	"	60.0		100	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.7		"	30.0		99.0	70-130			

Matrix Spike (0A03004-MS1)

Source: W912534-06

Benzene	21.9	0.50	ug/l	20.0	ND	109	70-130			
Toluene	22.2	0.50	"	20.0	ND	111	70-130			
Ethylbenzene	22.3	0.50	"	20.0	ND	111	70-130			
Xylenes (total)	64.0	0.50	"	60.0	ND	107	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.3		"	30.0		97.7	70-130			

Matrix Spike Dup (0A03004-MSD1)

Source: W912534-06

Benzene	23.1	0.50	ug/l	20.0	ND	116	70-130	5.33	20	
Toluene	23.5	0.50	"	20.0	ND	118	70-130	5.69	20	
Ethylbenzene	23.6	0.50	"	20.0	ND	118	70-130	5.66	20	
Xylenes (total)	67.7	0.50	"	60.0	ND	113	70-130	5.62	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	30.3		"	30.0		101	70-130			





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Project: Oro Loma Sanitary District
Project Number: OLSL-30229
Project Manager: John Sutton

Reported:
06-Jan-00 17:38

Notes and Definitions

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
RPD Relative Percent Difference



