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THE SUTTON GROUP

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

3708 Mount Diablo Blvd,
Suite 215
Lafayette, CA, 94549

July 28, 2002

REVIEWED TO D. L. M.
8/27/05 JMS/2102
AG

BY FAX 510 337-9335

Mr. Amir Gholami
Alameda County Health Care Services
EHS/Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA, 94502-6577

70288

**Re: Addendum to Work Plan for Additional Monitoring Wells
Site of Former 1,000 Gal. UST
Oro Loma Sanitary District's Maintenance Facility
2600 Grant Avenue, San Lorenzo, CA
SG File 3022.10**

STID 1996

Dear Mr. Gholami:

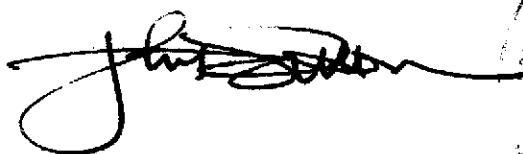
We have considered your recommended modifications to our work plan dated May 2, 2002 as discussed by phone this past week, and we have discussed them with our client and property owner, the Oro Loma Sanitary District. We concur that the changes the Agency have requested can be made, and by this letter, amend the work plan as follows:

1. Proposed monitoring well MW-4 will be located within 10 feet of the former tank;
2. Proposed monitoring well MW-5 will be located near soil boring EP-8;
3. A survey of well locations and elevations will be made so that gradient directions can be accurately calculated.

If this is different from your understanding of our conversation, or should you have questions or comments please call me.

Yours truly,

THE SUTTON GROUP



John R. Sutton, PE
Civil Engineer No. 40324

cc Mike Cortez, Oro Loma Sanitary District

FAX

Date: 2/21/02

Number of pages including cover sheet:

6

If you don't receive all pages, please call the sender

To: **Amir Gholami**
Of: **AlaCo. Health**
Phone: **510 567-6876**
Fax phone: **510 337-9335**
CC: Mike Cortez 510 276-1528

From: **John R. Sutton,**

Phone: **(925) 284-4208**

Fax phone: **(925) 284-4189**

REMARKS: Urgent For your review Reply ASAP Please comment

I attach for your use:

- Groundwater well sample results for quarterly sampling
- Groundwater well sample results for the 7 oxygenates
- Summary of grab groundwater analyses from borings
- Map showing the "hot" grab ground water sample locations on the table
- Cross Section through the site at right angles to road, from the tank site [on the right] to the center of the road [on left end]

Please call with any questions.

OLSD FAX to alaco, 02212002

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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)

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
	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:

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**TABLE 3
SUMMARY OF WATER SAMPLE ANALYSES**

SELECTED FUEL OXYGENATES

EPA METHOD 8015M/8020M

RESULTS IN µg/l (ppb)

Sample ID/ loc'n.	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 (EDBE)	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

ORO LOMA SANITARY DISTRICT

30229 R Backup of TABLE 3 oxygenates 3/16/99

**TABLE 1
SUMMARY OF ANALYTICAL RESULTS**

WATER SAMPLES

1996 SAMPLES				1998 SAMPLES			
BORING	Benzene ug/l	Toluene ug/l	MTBE ug/l	BORING	Benzene ug/l	Toluene ug/l	MTBE ug/l
EP-1	31*	7.4*	19*				
EP-2	23,000*	47,000*	3,900*	EP-8	24,000*	44,000*	4,900
EP-3	5.8	2.5	5.4				
EP-4	2.3	0.97	36				
EP-5	8,800*	4,800*	ND*	EP-10	12,000*	13,000*	1,100*
EP-6	ND	0.99	ND	EP-9B	0.81	ND	5.2
EP-7	0.53	2.1	ND	EP-9	ND	ND	ND
				EP-11	ND	ND	ND
				EP-12	ND	ND	ND
MDLs*	0.50	0.50	2.5	MDLs*	0.50	0.50	2.5

**ON-SITE BORINGS
(BOUNDARY OF CONTAINED AREA)**

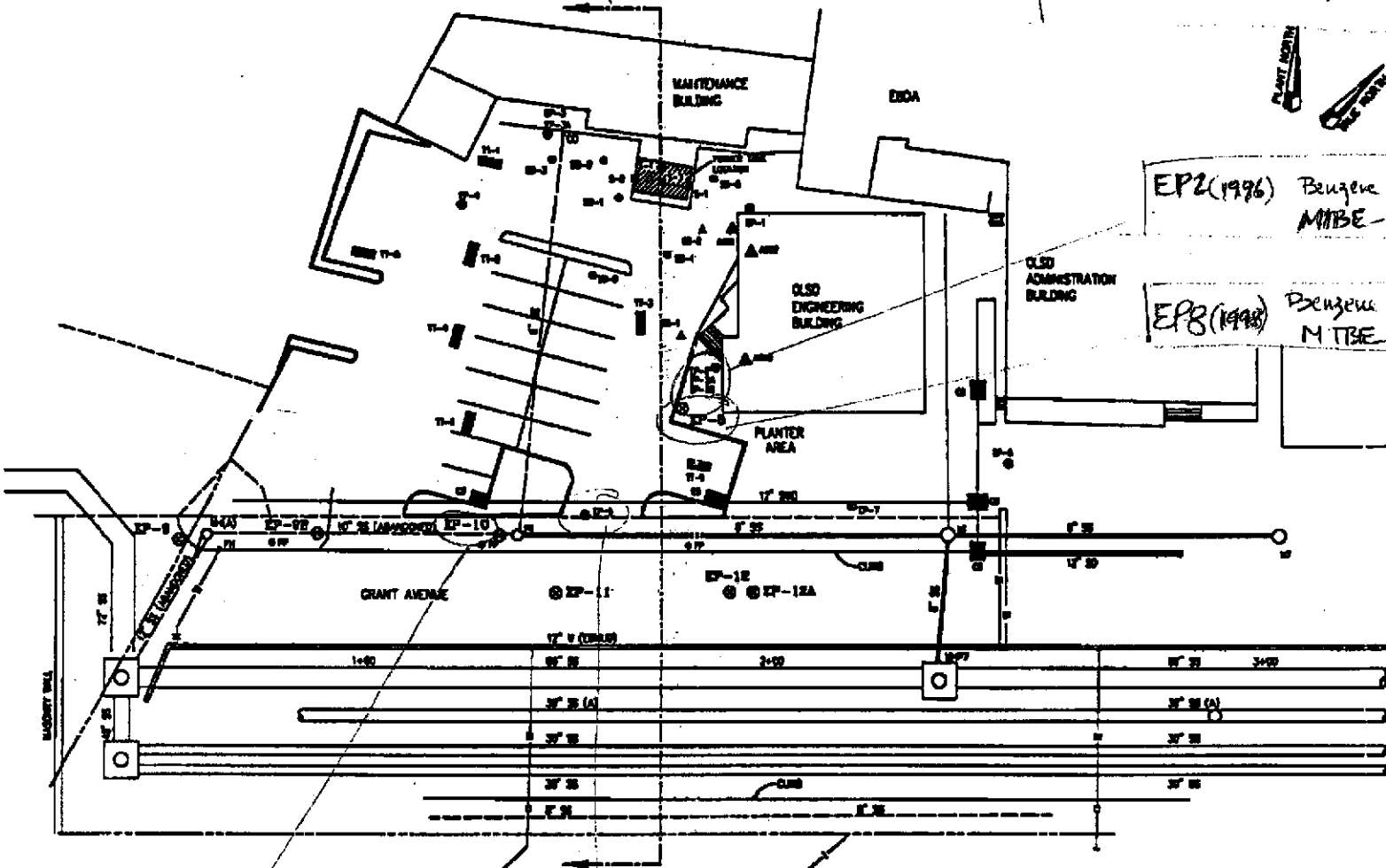
**SIDEWALK AREA BORINGS
(WITHIN CONTAINED AREA)**

**BORINGS DOWNGRADIENT OF
CONTAINED AREA**

* Indicates detection limits raised due to positive gasoline result. Refer to laboratory report in Appendix C for raised detection limits for each noted sample. For complete listing of 1998 results, refer to Laboratory Report in Appendix C

LOCATION OF CROSS SECTION

Grab Water Sample Summary
2/21/02



EP2 (1996) Benzene 23,000 µg/l
MTBE 3,900 µg/l PPB

EP8 (1998) Benzene 2,600 µg/l
MTBE 4,900 µg/l

LEGEND

- ∇ GROUND WATER DEPTH AT TEMPORARY WELL (ON DATE OF SAMPLING (1994-1996))
- SOIL BORING, LEVINE-FINCKE, 1993
- TEST TRENCH, SUTTON GROUP, 1994
- SOIL SAMPLE TANK REMOVAL, SUTTON GROUP, 1993
- ▲ GEOTECH. SOIL BORING, SUTTON GROUP, 1995
- SOIL AND WATER INVESTIGATION, SUTTON GROUP, 1996
- ⊙ BORING LOCATION, SUTTON GROUP, 1996
- △ AIR SAMPLE LOCATION, SUTTON GROUP, 1996

EP10: Benzene 12,050 µg/l
MTBE 1,100 µg/l

PLAN VIEW
SCALE 1"=20'-0"

EP 5: Benzene 8,800 µg/l
MTBE ND

LEGEND

- ▼ DENOTES GROUND WATER DEPTH IN TEMPORARY WELL ON DATE OF SAMPLING (1994-1996)
- SOIL BORING, LEVINE-FRICK, 1993
- TEST TRENCH, SUTTON GROUP, 1994
- SOIL SAMPLE TANK REMOVAL, SUTTON GROUP, 1993
- ▲ GEOTECH. SOIL BORING, SUTTON GROUP, 1993
- ⊙ SOIL AND WATER INVESTIGATION, SUTTON GROUP, 1996
- ⊗ BORING LOCATION, SUTTON GROUP, 1998
- △ AIR SAMPLE LOCATION, SUTTON GROUP, 1998

