Reviewed on 10/25/95

THE SUTTON GROUP

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

June 7, 1995 Mr. Mike Cortez Oro Loma Sanitary District 2600 Grant Avenue San Lorenzo, CA, 94580

Subject:

Report of Removal of 1,000 Gallon Gasoline Tank

Oro Loma Sanitary District Service Center,

San Lorenzo, California

Dear Mr. Cortez:

This report documents removal of a 1,000 gallon, underground, gasoline storage tank. The tank site is adjacent to the Maintenance Building at the Oro Loma Sanitary District (OLSD) Service Center, at 2600 Grant Avenue in San Lorenzo, un-incorporated Alameda County, California. The site location is identified on Figure 1.

HISTORY

This 1,000 gallon tank was installed by OLSD in about 1978. It stored leaded gasoline until 1985, at which time it was converted to unleaded gasoline service. The District had not reported leakage from this tank. The tank was removed as part of the District's program to eliminate excess infrastructure. This tank replaced an pre-existent 1,000 gallon gasoline tank in the same location. That tank was part of the original construction of OLSD's maintenance facility in 1961. That original tank replaced because it leaked.

A subsurface investigation of the tank area, was commenced by Levine Fricke in August, 1993. That program comprised drilling six hollow stem auger borings, collection of soil samples, and grab ground water samples from selected borings. Samples analysis revealed soil contamination by gasoline to as much as 4,300 mg/kg (ppm), and ground water contamination to 1,600 ppm. Ground water was recorded at 6 feet depth in all 6 borings and no free product was reported. The project was terminated due to interference with seismic retrofit work on the adjacent building The work was not completely documented. Available details of the investigation include a boring location plan and drilling logs in draft format, and laboratory results.

The Sutton Group was engaged by OLSD to complete the investigation and to remove the tank. This supplementary investigation comprised the excavation of seven test trenches in the parking lot. Trenches were sited in the possible down-gradient fan from the previous borings. The results of the investigation were documented in a report titled "Stage II Tank Removal Investigation, 1000 Gallon Gasoline Tank Site..." dated November 23, 1994. OLSD submitted the report to Alameda County Department of Environmental Health's UST Local Oversight Program (ACEH/LOP).

The trenches were excavated 4 to 7.5 feet depth. The site subsurface profile comprises man-made placed over bayland deposits. The fill comprises fill a blue-green to brown quarry fill of gravel and sand placed over a bridging fill. The marshy bayland deposits ranged from moderate to highly plastic clay to very silty, very "peaty" and odorous, organic clay (Bay Mud). The trenches were logged, soils tested with a PID, and up to three soil samples from each trench, representative of surficial and deeper soils, were selected for chemical laboratory analysis. Soil sample results show concentrations of degraded gasoline in a plume emanating from the tank in granular fill soils and Bay Mud at depths shallower than observed ground water. Degraded gasoline was present at up to 1,600 mg/kg. Soil samples also indicated lead contamination with one sample exceeding the California STLC of 5 mg/kg.

Ground water was present in trenches at approximately 7 feet depth, which was about 4 feet into the bayland. Planned water sample collection was abandoned after one of the early trenches caved significantly when only 5 feet deep.

TANK REMOVAL

Following a public bidding process, OLSD contracted the tank removal with "VCI of California". VCI holds California Contractor's License number 487537. VCI filed a Tank Closure Permit application with ACEH/LOP which was approved in ACEH/LOP's letter dated April 17, 1995. The tank was removed May 3, 1995. Ms. Amy Leach of ACEH/LOP and San Lorenzo Fire Marshal Captain Carlson were on site and approved fire/environmental hazard conditions prior to removal of the tank.

The contractor excavated a 17 feet long by 11 feet wide pit to remove the 1,000 gallon tank. The soil overlying the tank was the previously discussed "blue-green granular fill," however, some of the coloration was around the fill pipe and also the pump line, suggesting overfill spillage, and possible fuel pipe leakage. The bottom of the 4 foot diameter tank was at 7 feet depth. The tank was founded in pea gravel, and water was noted at 7.5 feet depth in the pit. Little gasoline odor was noted in the shallow fill soil, including the vicinity of the service piping. Excavation of the pea gravel to expose "native" soils revealed similar soil conditions to those exposed in the November investigation. Excavation walls were relatively stable and shoring was not used. Water was noted to be seeping from the pit end walls at approximately 6 feet depth, which was in the zone of bayland soils.

Soil Sample Collection and Handling

Soil samples were collected from each end of the tank pit and from beneath the supply line elbow in the fuel island as required by Tri-Regional Guidelines (10 August, 1990). We also collected an additional sample from native soils beneath the bottom of the tank as an indicator of plume depth.

The sample locations are shown on Figure 2. Samples were collected from the tank pit by digging an "undisturbed" block of soil from a pre-designated location using the backhoe, in this case, a CAT 225 with 1.5 c.yd. bucket. From this block of soil in the backhoe bucket, the sample was

collected by driving a 2-inch diameter metal tube into the soil mass. Personnel did not enter the excavation.

The two samples from the tank ends were collected at the east and west ends of the pit, (Samples S1, S2) from just above the seepage surface, at 5.8 and 6.0 feet depth respectively. Sample S4 was fill soil collected from 1.5 feet depth below the former fuel dispenser, from soil immediately below the fuel line elbow joint. Sample S3 was native soil collected at the center of the pit, at a depth of 11.5 feet following removal of pea gravel. These soil samples were documented, labeled, and entered into Chain-of Custody. Then they were packed on ice for transport to the District's contract chemical laboratory, Sequoia Analytical Laboratory in Redwood City California.

Ground Water Sampling

The ground water sampling program consisted of collecting a "grab" water sample from the tank pit. Seepage was slow, and water was turbid. We noted no indication of free product. Water samples were decanted into containers provided by the laboratory. There was insufficient water available to avoid significant turbidity and sediment. The water samples were put on "hold" status at the laboratory. Since grab ground water sample results from the 1993 investigation document the existence of gasoline contamination, ACEH/LOP, on May 5, 1995, alleviated the need for analysis of the subject turbid tank pit water samples.

Laboratory Testing Program

The District contracted Sequoia Analytical Laboratory of Redwood City California to transport and analyze the samples. Sequoia is an independent, California EPA-certified hazardous waste testing laboratory (ELAP #1210) accredited to perform the analyses in accordance with the San Francisco Bay Regional Water Quality Control Board, and the Alameda County Health Department's Hazardous Materials Program's guidelines for analysis of petroleum fuels releases from underground tanks.

Soil samples were analyzed for total petroleum hydrocarbons as gasoline, benzene, toluene, ethyl benzene and xylenes using EPA Methods 8015 modified, and 8020 respectively, and for lead by EPA Method 6010. Additionally one lead sample was reanalyzed by the Cal WET procedure.

ANALYTICAL RESULTS

The results indicate leaded gasoline contamination and concur with the results of the subsurface investigations. Sample S3 shows that the significant contamination contamination is in the upper eleven feet of subsurface profile. Analytical results are summarized on Table 1, and the laboratory reports are included as an Appendix.

A copy of this report should be provided to the Alameda County Environmental Health Department, UST Local Oversight Program, to the attention of Ms. Amy Leach.

Please call the writer should you have questions or comments

Yours truly,

THE SUTTON GROUP

John R. Sutton, Civil Engineer No. 40324 Geotechnical Engineer No. 812

Attachments:	Table 1,	Tank Removal Analytical Results
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Figure 1 Site Vicinity Map
Figure 2 Site Plan and Sample Locations

Appendix Sequoia Analytical Report No 9505326 dated 5/11/95

Sequoia Analytical Report No 9505857 dated 5/24/95

TABLE1 TANK REMOVAL ANALYTICAL RESULTS

TEST RESULTS FOR SOILS

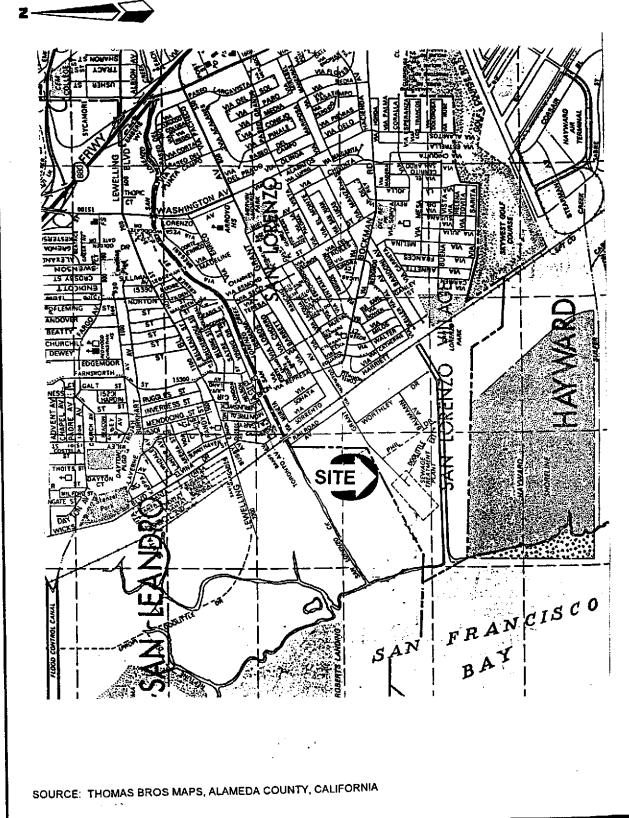
SAMPLE ID	LOCATION	DEPTH FL	TPH-GAS mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Xylenes mg/kg	LEAD, Total mg/kg	LEAD, Sol. mg/kg
S 1	East End of Tank Pit	5.8	1,900	7.1	57	39	190	18	NA .
S2	West End of Tank Pit	6	3,300	37	18	61	350	260	6.4
S3	Center of Tank Pit	11.5	43	0.3	0.56	0.41	1.7	ND	NA
S4	Island: beneath fuel pipe	1.5	49	0.25	0.28	0.45	2.6	15	NA
MDLs*	<u> </u>	<u>, ,,</u>	0.2	0.005	0.005	0.005	0.005	5	0.1

* Refer to Laboratory Report for complete listing of results

Job No. 3022, Stage 4

THE SUTTON GROUP
Engineering and Environmental Services
Moraga, California (510) 631-1688

ORO LOMA SANITARY DISTRICT GASOLINE TANK REMOVAL MAY, 1995



THE SUTTON GROUP

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

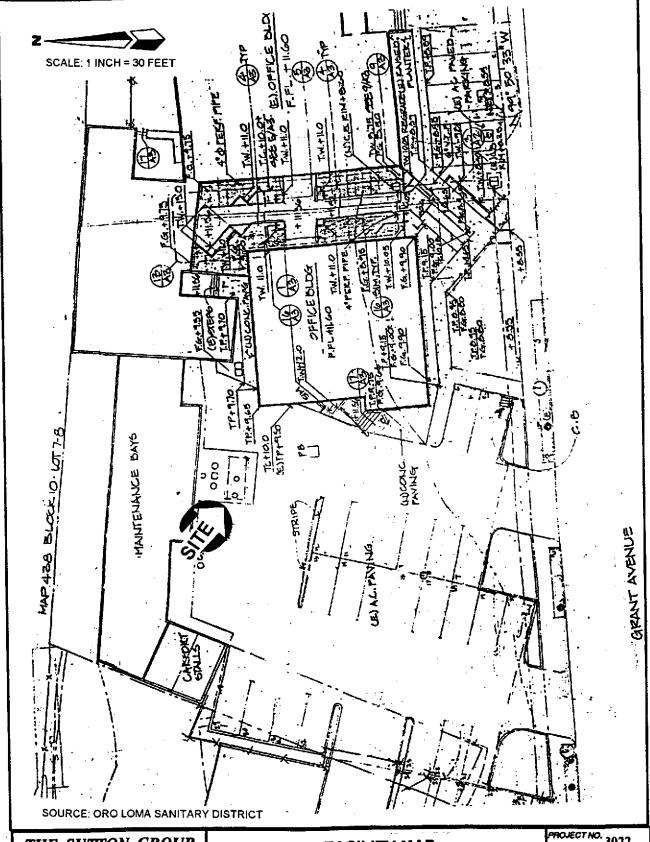
SITE LOCATION MAP

1000 GALLON TANK REMOVAL ORO LOMA SANITARY DISTRICT SAN LORENZO, CALIFORNIA

PROJECT NO. FIGURE No

ECT NO. 3022

5/30/95



THE SUTTON GROUP

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

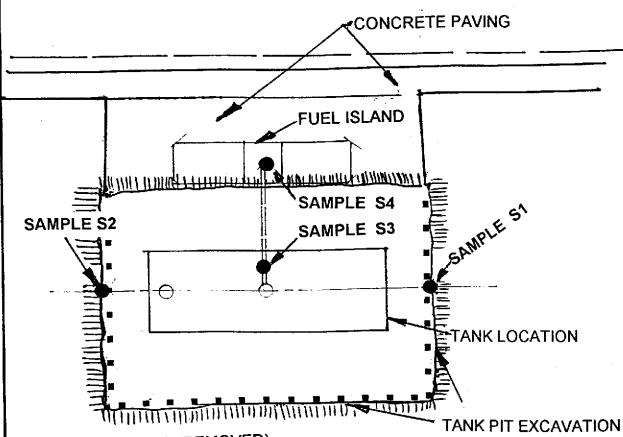
FACILITY MAP 1000 GALLON TANK REMOVAL ORO LOMA SANITARY DISTRICT SAN LORENZO, CALIFORNIA

РПОЈЕСТ NO. 3022

FIGURE No 5/30/95



MAINTENANCE BAYS



CONCRETE PAVING (REMOVED)

SAMPLE ID	LOCATION	DEPTH Ft.
\$1	East End of Tank Pit	5.8
S2	West End of Tank Pit	6
S3 '	Center of Tank Pit	11.5
S4	Island: beneath fuel pipe	1.5

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

SITE PLAN

1000 GALLON TANK REMOVAL ORO LOMA SANITARY DISTRICT SAN LORENZO, CALIFORNIA

ROJECT NO.	302

FIGURE No 5/30/95



680 Chesapeake Drive 404 N. Wiget Lane , 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Lab Proj. ID: 9505326

Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620

Attention:

Client Proj. ID: Prj#3022/ 1000 gal gas tank

Sampled: 05/03/95 Received: 05/04/95

Mike Cortez

Analyzed: see below Reported: 05/11/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9505326-01 Sample Desc : SOLID,S1				
Lead	mg/Kg	05/10/95	5.0	18
Lab No: 9505326-02 Sample Desc : SOLID,S2				
Lead	mg/Kg	05/10/95	5.0	260
Lab No: 9505326-03 Sample Desc : SOLID,S3				
Lead	mg/Kg	05/10/95	5.0	N.D.
Lab No: 9505326-04 Sample Desc : SOLID,S4				
Lead	mg/Kg	05/10/95	5.0	15

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Jim Heider **Project Manager**



680 Chesapcake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

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The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620 Client Proj. ID: Prj#3022/ 1000 gal gas tank

Sample Descript: S1 Matrix: SOLID

Lab Number: 9505326-01

Analysis Method: 8015Mod/8020

Received: 05/04/95 Extracted: 05/08/95 Analyzed: 05/09/95 Reported: 05/11/95

Sampled: 05/03/95

Attention: Mike Cortez

QC Batch Number: GC050895BTEXEXA

Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Lin	nit S	ample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:			7.1 57 39
Surrogates Trifluorotoluene	Control Limits 70	3 % % 130	Recovery 123

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

dim Heider Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

The Sutton Group
 Shuey Drive
 Moraga, CA 94556-2620

Client Proj. ID: Prj#3022/1000 gal gas tank

Sample Descript: S2 Matrix: SOLID

Analysis Method: 8015Mod/8020 Lab Number: 9505326-02 Sampled: 05/03/95 Received: 05/04/95 Extracted: 05/08/95 Analyzed: 05/09/95 Reported: 05/11/95

QC Batch Number: GC050895BTEXEXA

Instrument ID: GCHP06

Attention: Mike Cortez

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

	•	•	•	•	
Analyte		De	etection Limit mg/Kg	Sa	mple Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	•••		500 2.5 2.5 2.5 2.5		3300 37 18 61 350 Gas
Surrogates Trifluorotoluene		C c 70	entrol Limits %	% F	ecovery 123

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Jim Heider

Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620

Attention: Mike Cortez

Client Proj. ID: Pri#3022/ 1000 gai gas tank Sample Descript: S3

Matrix: SOLID

Analysis Method: 8015Mod/8020 Lab Number: 9505326-03

Sampled: 05/03/95 Received: 05/04/95 Extracted: 05/08/95 Analyzed: 05/10/95 Reported: 05/11/95

QC Batch Number: GC050895BTEXEXA

Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

•	otal Pulgeable Petroleum Nydrocalbons (1PPH) with Bil	=_
Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	5.0 0.025 0.025 0.025 0.025	0.30 0.56 0.41
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 137 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Jim Heider

Project Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

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温度 光性 化性 医

The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620 Client Proj. ID: Prj#3022/ 1000 gal gas tank

Sample Descript: S4

Matrix: SOLID Analysis Method: 8015Mod/8020

Lab Number: 9505326-04

Sampled: 05/03/95 Received: 05/04/95 Extracted: 05/08/95

Analyzed: 05/09/95 Reported: 05/11/95

QC Batch Number: GC050895BTEXEXA

Instrument ID: GCHP06

Attention: Mike Cortez

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

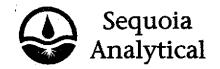
Analyte		ection Limit mg/Kg	Sa	mple Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		0.025 0.025 0.025		49 0.25 0.28 0.45 2.6 Gas
Surrogates Trifluorotoluene	Con 70	trol Limits % 130	% R	ecovery 138 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Jim Helder

Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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The Sutton Group 51 Shuey Drive Client Project ID:

Matrix:

Prj#3022/ 1000 gal gas tank

Moraga, CA 94556-2620

Solid

Attention:

Mike Cortez

Work Order #:

9505326

-01-04

Reported: Mar

May 12, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryillum	Cadmium	Chromium	Nickel	
QC Batch#:	ME0509956010MDF	ME0509956010MDF	ME0509956010MDF	ME0509956010MDF	
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050	*
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser	
MS/MSD #:	950532601	950532601	950532601	950532601	
Sample Conc.:	N.D.	N.D.	31	35	
Prepared Date:	5/9/95	5/9/95	5/9/95	5/9/95	
Analyzed Date:	5/10/95	5/10/95	5/10/95	5/10/95	
nstrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg	
Result:	99	98	130	130	
MS % Recovery:	99	98	99	95	
Dup. Result:	99	98	120	130	
MSD % Recov.:	99	98	89	95	
RPD:	0.0	0.0	8.0	0.0	
RPD Limit:		0-30	0-30	0-30	
LCS #:	BLK050995	BLK050995	BLK050995	BLK050995	
Prepared Date:	5/9/95	5/9/95	5/9/95	5/9/95	
Analyzed Date:	5/10/95	5/10/95	5/10/95	5/10/95	
nstrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg	+=
LCS Result:	100	99	100	100	
LCS % Recov.:	100	99	100	100	
MS/MSD	<u> </u>			·	
LCS Control Limits	75-125	75-125	75-125	75-125	

SEQUOIA ANALYTICAL

Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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The Sutton Group 51 Shuey Drive

Client Project ID:

Prj#3022/ 1000 gal gas tank

Matrix:

Solid

Moraga, CA 94556-2620 Attention:

Mike Cortez

Work Order #:

9505326-01-04

Reported:

May 12, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
QC Batch#:	GC0508958TEXEXA	GC050895BTEXEXA	GC050895BTEXEXA	GC050895BTEXEXA	
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
		•			
Analyst:	G. Garcia	G. Garcia	G. Garcia	G. Garcia	
MS/MSD #:	950522001	950522001	950522001	950522001	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	5/8/95	5/8/95	5/8/95	5/8/95	
Analyzed Date:	5/8/95	5/8/95	5/8/95	5/8/95	
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	
Result:	• • • •	0.15	0.15	0.45	
MS % Recovery:	75	75	75	75	
Door Branch					
Dup. Result:		0.19	0.19	0.56	
MSD % Recov.:	95	95	95	93	
RPD:	24	24	24	22	
RPD Limit;		0-50	0-50	0-50	
LCS #:					
LU3 #:	•	• •	•	•	
Prepared Date:	_	-		-	
Analyzed Date:		. -	•	•	
Instrument I.D.#:		•	•	-	
Conc. Spiked:		•	•	•	
•					
LCS Result:	•	•	-	-	
LCS % Recov.:	•	-	• 1	-	
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MS/MSD LCS	6F 14F	47.440	47 455	56-140	
Control Limits	55-145	47-149	47-155	20-14U	
Control Figura					

SEQUOTA

Project Manager

Please Note:

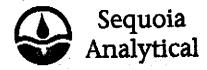
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9505326.SSS <2>

Chain of Custody/Analysis Work Order

•	_					Decinet	in 302	_			L	AB USE	ONL		•
I	Client:	LSD	<u> </u>		N-100-0	gel	gas Jan	k_ 4							
Address: 2600 GRANT BN BAN LORFEN 70 9450) Contact: MINE CORTER					THE SUTTON GROUP				Samples arrived chilled and intact:				· .		
	800	LOMA-	موسوس	1000	Engineering ar	id Enviro	onmental Serv	ices		Yo	;s	N	.		• •
C	ontact: M	WE (B		John R. Sutton, P.E., REA					Note	s:		· · ·	•	<u> </u>	
Telephone #: (5) 276 - 4700					Principal Engineer				\	1					
Date Re	ccived: 5	3)95													
Turn A	Around: R	eg (>	5day)	Phon Fax	Phone (510) 631-1688 51 Shuey Drive ————————————————————————————————————										. f:
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Lab#	Sample ID	Grab/ Composite	Matrix	Date Collected	Collected	Pres.	Container	O IZ				58/	ar+4	udoth	Īć
1.40 #	51	G	Soil	5/3/95	1250pm	H/A	Brass 2x1				. @	10/1	10. F	الفاصد	<u> </u>
	32	G	Soil	5/3/95	1:10 pm	MA	Bres 246			Hold	@ 2 *//	t.	leste	100	
	WI	G	Water	5/3/95	1:30 pm	MARCO				Hale	(a)	11.0h		Tanh	F
<u> </u>	53	6	Seil	53195	1:45 pm	NA	·					pelow of	7	1	
<u> </u>	S4	G	Sol	5/3/95	230 pm	MA	Fran 2x6	-	 	}	1.3.	pecon j	eryn.	The state of the s	۲
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680 Chesapeake Drive 404 N. Wiget Lane

Redwood City, CA 94063 Walnut Creek, CA 94598 819 Striker Avenue, Suite 8 - Sacramento, CA 95834

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The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620

Client Proj. ID: Pri#3022/1000 gal gas tank Sampled: 05/03/95 Received: 05/04/95 Analyzed: see below

Lab Proj. ID: 9505857

Reported: 05/24/95

Mike Cortez Attention:

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9505857-01 Sample Desc : SOLID,S2				
Lead: STLC Extraction	mg/L	05/19/95	0.10	6.4

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Jim Heider Project Manager



Mike Cortez

680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

The Sutton Group51 Shuey DriveMoraga, CA 94556-2620

Attention:

Client Proj. ID: Prj#3022/1000 gal gas tank

Sampled: 05/03/95 Received: 05/04/95

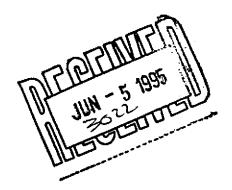
Lab Proj. ID: 9505857

Analyzed: see below

Reported: 05/24/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results	
Lab No: 9505857-01 Sample Desc : SOLID,S2					
Lead: STLC Extraction	mg/L	05/19/95	0.10	6.4	



Analytes reported as N.D. were not present above the stated limit of detection.

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The Sutton Group 51 Shuey Drive

Moraga, CA 94556-2620 Attention: Mike Cortez Client Project ID:

Pri#3022/1000 gal gas tank

Matrix:

Liquid

Work Order #:

-01

Reported: May 25, 1995

QUALITY CONTROL DATA REPORT

9505857

Analyte:	Beryllium	Cadmium	Chromium	Nickel	
QC Batch#: Analy. Method: Prep. Method:	ME0519956010MDA EPA 6010 EPA 3010	ME0519956010MDA EPA 6010 EPA 3010	ME0519956010MDA EPA 6010 EPA 3010	ME0519956010MDA EPA 6010 EPA 3010	
Analyst: MS/MSD #: Sample Conc.:	SO/CM 9505A2201 N.D.	SO/CM 9505A2201 N.D.	SO/CM 9505A2201 N.D.	SO/CM 9505A2201 N.D.	
Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:	5/19/95 5/19/95 MTJA2 1.0 mg/L	5/19/95 5/19/95 MTJA2 1.0 mg/L	5/19/95 5/19/95 MTJA2 1.0 mg/L	5/19/95 5/19/95 MTJA2 1.0 mg/L	
Result: MS % Recovery:	0.97 97	0.95 95	0.96 96	0.95 95	
Dup. Result: MSD % Recov.:	98	0.95 95	0.97 97	0.94 94	
RPD: RPD Limit:	· -	0.0 0-30	1.0 0-30	1.0 0-30	
LCS #:	•		•	-	
Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:	•	- - -		• • •	
LCS Result: LCS % Recov.:		:	• • •	• -	
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125	

SEQUOIA ANALYTICAL

Jim Heider Project Manager Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9505857.SSS <1>