

10287

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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

February 28, 2006

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

**Results of 14<sup>th</sup> Quarterly Round of Sampling of Ground Water Monitoring Wells  
Sites of Former Gasoline and Diesel Tanks  
2600 Grant Ave., San Lorenzo, CA  
OLSD PO No. 4911, LOP Site No. RO0000288 ST ID 1996**

Dear Mr. Cortez:

We attach results for the most recent round of quarterly sampling of the ground water monitoring wells, conducted on January 30, 2006. This is the 14<sup>th</sup> quarterly round of sampling of the five wells at the former gasoline tank site and the one well at the former diesel tank site.

This work has been performed in accordance with the Work Plan that was approved by Alameda County Health Care Agency's Environmental Protection Division (ACEP) in their letter dated April 18, 2003, as amended.

Figure 1 is a plan of the District's facilities at the foot of Grant Avenue in San Lorenzo which shows the relative locations of the former gasoline and diesel tanks to the sewage treatment plant and the District's offices.

### **Groundwater Monitoring**

Review of groundwater level measurements around the former gasoline tank site indicates a ground water elevation rise, consistent with the wet early winter conditions. The groundwater conditions are similar to those of past readings for the same quarter, as presented on Table 1, the cumulative tabulation of groundwater data. Figure 2 shows the gradient direction as calculated on Figure 2A.

### **Sampling Results**

#### **Gasoline Tank Area**

On January 30, 2006, water samples were collected from all five wells in accordance with the approved work plan. The samples were collected by bailing.

All five wells were sounded and then sampled. Each sample was analyzed for gasoline, BTEX and MTBE. Table 2 is a summary of the results of the current round of analytical results for hydrocarbons. Table 2A is a compilation of all test results for gasoline-related hydrocarbon constituents in the gasoline tank area since well sampling began in 1999. Laboratory certificates and field sampling logs are attached.


**Diesel Tank Area**

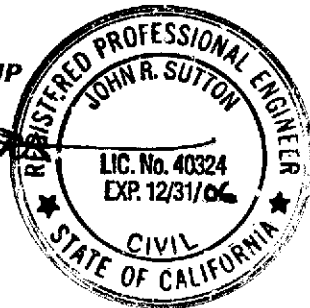
The monitoring well at the location of the former diesel tank was also sampled. This well was installed and first sampled in March, 1996. The monitoring well location is shown on Figure 1.

The well was sampled using a bailer, and analyzed for TPH as diesel and BTEX. Table 4D is a tabulation of all sample results for this well. Historically, the well has no detection of BTEX.

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

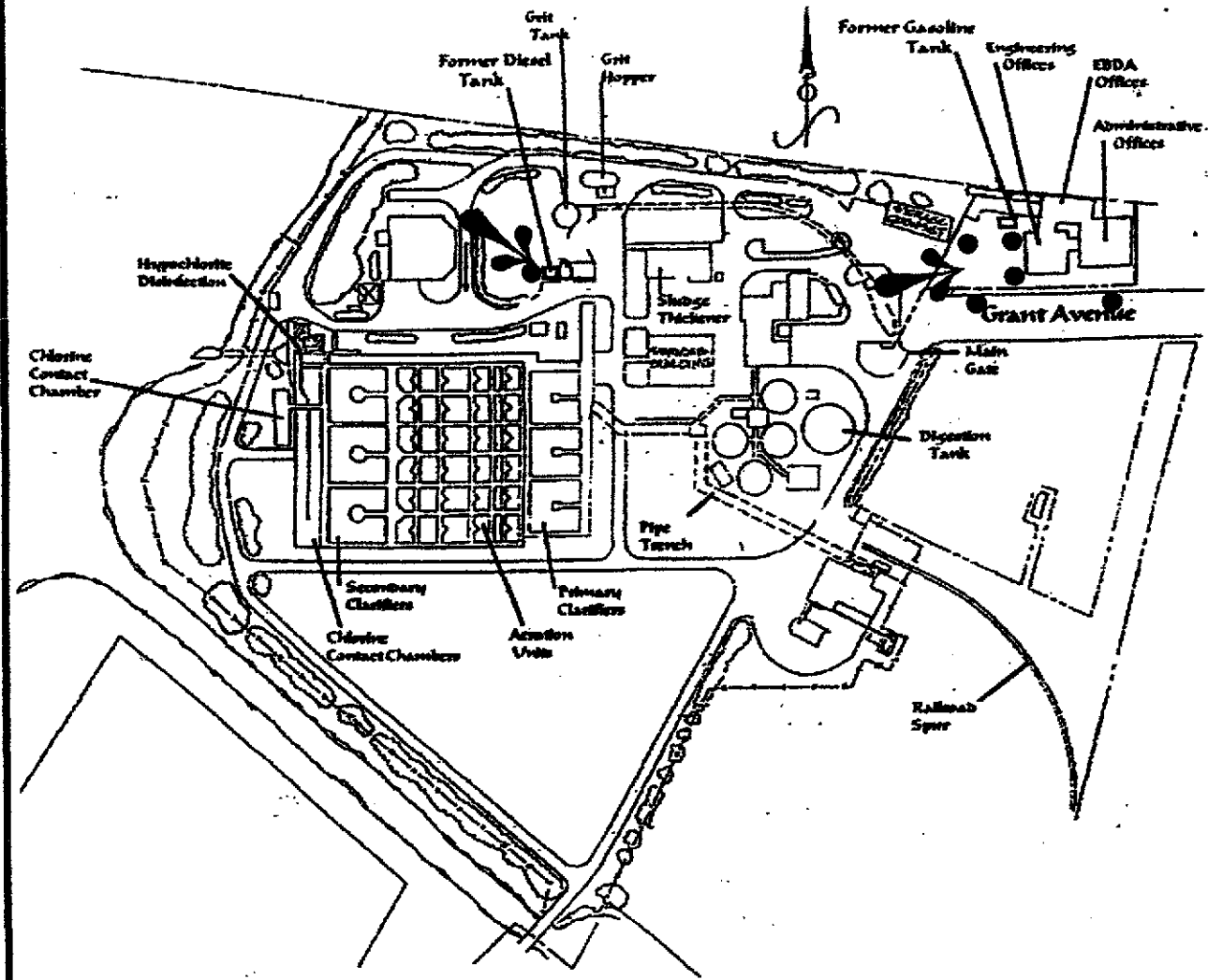


**Attachments:**

- Figure 1 Site Plan
- Figure 2 Well Location Plan, Former Gasoline Tank Area
- Figure 2A Gradient calculation sheet
- Table 1 Ground Water Elevations, Former Gasoline Tank Area
- Table 2 Summary of Current Water Sample Analyses for Gasoline and constituents, Former Gasoline Tank Area
- Table 2A Cumulative Summary of Water Sample Analyses, Gas Tank Area
- Table 3 Not included
- Table 4D Summary of Water Sample Analyses, Former Diesel Tank Area

Analytical Laboratory Reports (McC Campbell)  
Field sampling Reports (Blaine Tech)

Copy sent to Mr. Amir Gholami at Alameda County Health Dept.



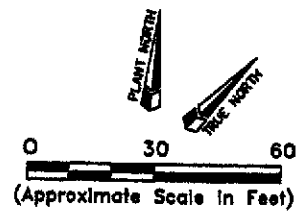
**SITE PLAN**

● Monitoring Well Location

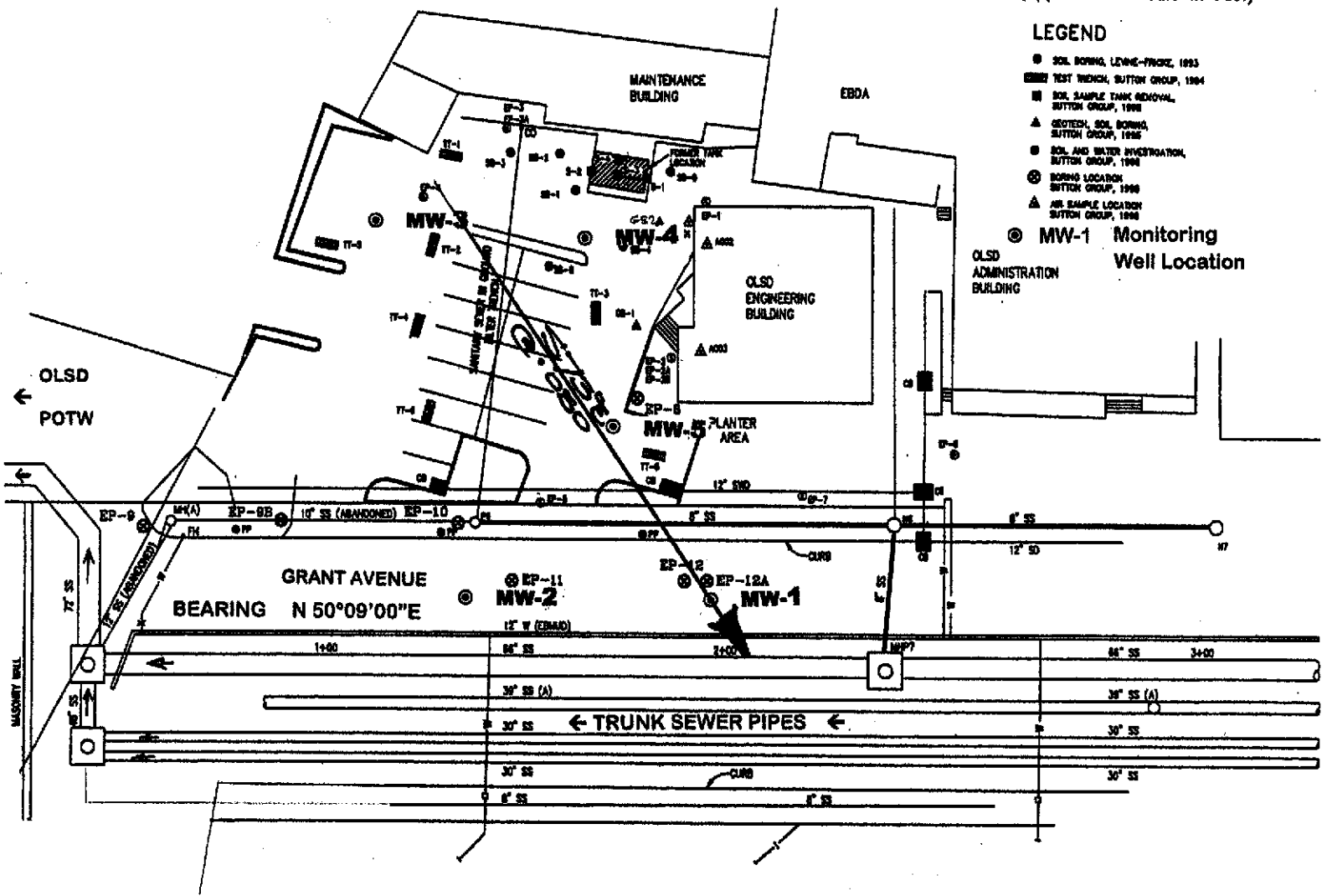
SCALE 1 IN. TO 250 FEET, APPROX

<p><b>THE SUTTON GROUP.</b>          3708 Mount Diablo Blvd, Ste 215          Lafayette, CA, 94549          925 284-4208</p>	<p><b>SITE PLAN</b>  <b>ORO LOMA SANITARY DISTRICT</b>  <b>San Lorenzo, California</b></p>	<p>PROJECT No3022.10  <b>FIGURE 1</b>          5/21/03</p>
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READINGS 1/30/06  
 GRADIENT S73°E @ 5.0%



- LEGEND**
- SOL. BORING, LEWIS-FRICK, 1993
  - SOL. TEST TRENCH, BUTTON GROUP, 1994
  - SOL. SAMPLE TANK REMOVAL, BUTTON GROUP, 1998
  - ▲ GROUND SOL. BORING, BUTTON GROUP, 1998
  - SOL. AND WATER INVESTIGATION, BUTTON GROUP, 1994
  - ⊙ BORING LOCATION, BUTTON GROUP, 1998
  - ▲ AIR SAMPLE LOCATION, BUTTON GROUP, 1994
  - ⊙ MW-1 Monitoring Well Location

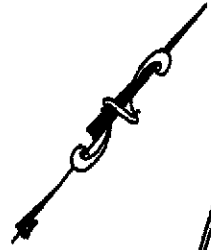


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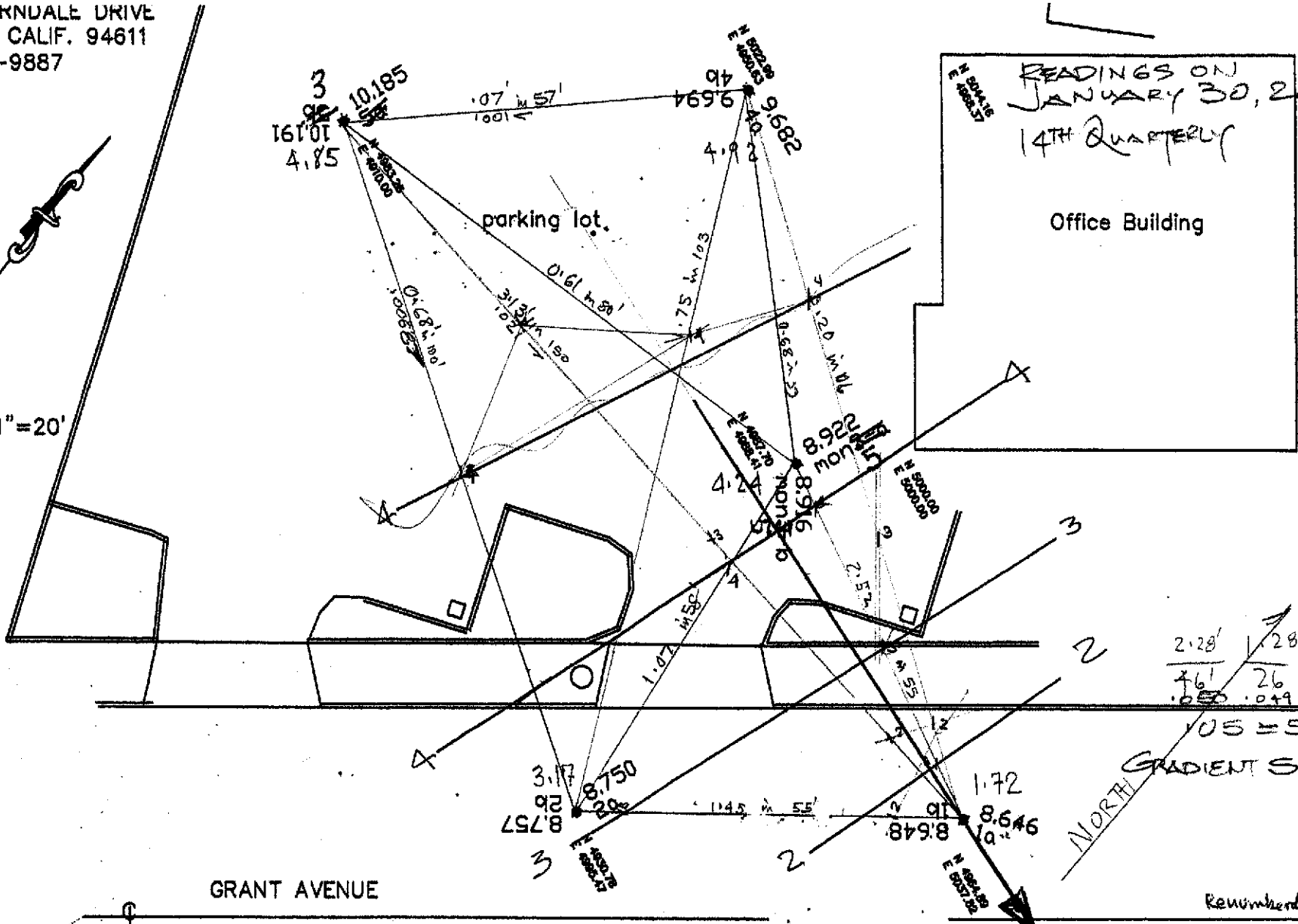
**WELL LOCATION PLAN**  
 SERVICE CENTER AREA  
 ORO LOMA SANITARY DISTRICT  
 2600 GRANT AVENUE,  
 SAN LORENZO, CA

PROJECT No. 3022.10  
**FIGURE 2**

7181 THORNDALE DRIVE  
 OAKLAND CALIF. 94611  
 510-339-9887



SCALE 1"=20'



READINGS ON  
 JANUARY 30, 2006  
 14TH QUARTERLY

Office Building

note: coordinates given are relative only and not based on state grid

ORO LOMA SANITARY DISTRICT  
 2600 GRANT AVENUE  
 SAN LORENZO, CA

- monitoring wells ( typical of 5)
- note: two elevations are given at each well rim.

Remembered by J

**TABLE 1**  
**GROUND WATER ELEVATIONS**  
 All measurements are in feet

<b>Monitoring Well ID</b>	<b>MW 1</b>	<b>MW 2</b>	<b>MW 3</b>	<b>MW 4</b>	<b>MW 5</b>	<b>Estimated Net</b>	
						<b>Flow Direction</b>	<b>Gradient ft/ft</b>
<b>Well Cover Rim Elevn*</b>	8.65	8.75	10.19	9.68	8.92		
<b>Groundwater Elevation</b>							
<i>Initial Sampling 10/21/02</i>	1.72	2.04	3.21	3.58	2.84	S21°E	0.016
<i>2<sup>nd</sup> Quarterly 1/28/03</i>	2.23	2.65	4.94	5.35	4.42	S23°E	0.033
<i>3rd Quarterly, 4/28/03</i>	Not Measured	3.18	Not Measured	5.80	5.20	S22½°W	0.042
<i>4<sup>th</sup> Quarterly, 7/25/03</i>	0.45	2.35	3.44	3.58	3.52	S18°W	0.027
<i>5<sup>th</sup> Quarterly, 10/30/03</i>	1.82	2.75	3.61	4.18	4.09	S26°E	0.014
<i>6<sup>th</sup> Quarterly, 1/23/04</i>	2.20	3.27	5.27	5.47	5.17	S35°E	0.053
<i>7th Quarterly, 4/27/2004</i>	2.35	3.55	4.99	5.08	4.92	S17°E	0.017
<i>8th Quarterly, 7/29/2004</i>	1.55	2.43	3.77	4.11	4.14	S52°W	0.006
<i>9th Quarterly, 10/28/2004</i>	-0.08	0.98	4.17	4.50	4.69	S63°E	0.087
<i>Special Sampling, 12/8/2004</i>	-0.74	-0.83	Not Meas.	Not Meas.	Not Meas.	Not Meas.	Not Meas.
<i>10th Quarterly, 1/24/2005</i>	0.79	2.75	5.64	5.83	4.74	S27°E	0.03
<i>11th Quarterly, 4/28/2005</i>	1.37	3.02	5.15	5.19	4.52	S40°E	0.023
<i>12th Quarterly, 7/19/2005</i>	1.18	2.37	4.31	4.48	4.32	S59°E	0.063
<i>13th Quarterly 10/26/2005</i>	0.79	1.72	3.69	4.10	4.20	S64°E	0.065
<b>Current reading on 1/30/2006</b>							
<i>Groundwater Depth</i>	6.93	5.58	5.34	4.76	4.68		
<b>Groundwater Elevation</b>	<b>1.72</b>	<b>3.17</b>	<b>4.85</b>	<b>4.92</b>	<b>4.24</b>	<b>S73°E</b>	<b>0.05</b>
<i>Change Since 10/26/2005</i>	0.93	1.45	1.16	0.82	0.04		
<i>Change since same Qtr, last year</i>	0.93	0.42	-0.79	-0.91	-0.50		

\* Basis of elevations, Alameda County bench mark "Grant-Phil" at intersection of Grant Avenue and Phil Drive.

Bench Mark Elevation = 2.175 meters, msl = 7.136 feet.  
 3022.10 Qtr14, 2006-01, Table 1.xls, 2/28/2006

**TABLE 2****SUMMARY OF GROUND WATER SAMPLE ANALYSES**

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

EPA METHOD 8015Cm /8021

results in µg/l (ppb)

<b>SAMPLE LOCATION</b>	<b>SAMPLE DATE</b>	<b>GASOLINE</b>	<b>BENZENE</b>	<b>TOLUENE</b>	<b>ETHYL BENZENE</b>	<b>XYLENES (TOTAL)</b>	<b>MTBE</b>	<b>DILUTION FACTOR</b>
<b>MW-1</b>	1/30/06	ND	ND	ND	ND	ND	ND	1
<b>MW-2</b>	1/30/06	ND	ND	ND	ND	ND	ND	1
<b>MW-3</b>	1/30/06	300	130	0.74	ND	2.5	71	1
<b>MW-4</b>	1/30/06	45,000	9,800	380	2,400	6,500	ND<130	10
<b>MW-5</b>	1/30/06	61,000	15,000	5,500	1,100	5,600	ND < 500	100
<b>MW-D 1</b>	1/30/06	DIESEL: 120	ND	ND	ND	ND	ND	1
<b>TRIP BLANK</b>	1/30/06	ND	ND	ND	ND	ND	ND	1
<b>REPORTING LIMITS FOR DF=1</b>		50	0.5	0.5	0.5	0.5	5	

**NOTES:**

ND Analyte not detected at stated reporting limit  
N/A Not analyzed

**TABLE 2A**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**FORMER GASOLINE TANK AREA**

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE  
 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>
<b>MW-1</b>	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
<b>DUP</b>	11/23/99	ND	ND	ND	ND	ND	ND
	11/23/99	ND	ND	ND	ND	ND	ND
	7/25/03	ND	ND	ND	ND	ND	ND
	10/30/03	N/A	N/A	N/A	N/A	N/A	N/A
MP	1/23/04	ND	ND	ND	ND	ND	ND
	4/27/04	N/A	N/A	N/A	N/A	N/A	N/A
	7/29/04	ND	ND	ND	ND	ND	ND
	10/28/04	N A	N A	N A	N A	N A	N A
	12/8/04	ND	ND	ND	ND	ND	ND
MP	1/24/05	ND	ND	ND	ND	ND	ND
	4/28/05	N A	N A	N A	N A	N A	N A
	7/19/05	ND	ND	ND	ND	ND	ND



**TABLE 2A, Continued**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE**  
**FORMER GASOLINE TANK AREA**

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
	10/06/05	N/A	N/A	N/A	N/A	N/A	N/A
	<b>1/30/06</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>MW-2</b>	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
	7/25/03	ND	ND	ND	ND	ND	< 1
	10/30/03	N/A					
	1/23/04	ND	ND	ND	ND	ND	ND
	4/27/04	N/A	N/A	N/A	N/A	N/A	N/A
	7/29/04	ND	ND	ND	ND	ND	ND
MP	10/28/04	ND	ND	ND	ND	ND	ND
	12/8/04	ND	ND	ND	ND	ND	1.5
MP	1/24/05	ND	ND	ND	ND	ND	9.0
	4/28/05	N/A	N/A	N/A	N/A	N/A	N/A
	<b>7/19/05</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**TABLE 2A, Continued**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE**  
**FORMER GASOLINE TANK AREA**

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
	10/06/05	N/A	N/A	N/A	N/A	N/A	N/A
	<b>1/30/06</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>MW-3</b>	2/19/99	ND	ND	ND	ND	ND	1.5 <sup>1</sup>
DUP	2/19/99	ND	ND	ND	ND	ND	N/A
	5/10/99	ND	ND	ND	ND	ND	1.5 <sup>2</sup>
	8/30/99	N/A	ND	ND	ND	ND	ND
	11/23/99	ND	ND	[0.69] <sup>3</sup>	[0.58] <sup>3</sup>	[1.3] <sup>3</sup>	ND
	1/6/00	ND	ND	ND	ND	ND	3.1 <sup>4</sup>
DUP	1/6/00	ND	ND	ND	ND	ND	2.6 <sup>4</sup>
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
	7/25/03	ND	ND	ND	ND	ND	1.1
	10/30/03	N/A	N/A	N/A	N/A	N/A	N/A
	1/23/04	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/04	N/A	N/A	N/A	N/A	N/A	N/A

**TABLE 2A, Continued**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE**  
**FORMER GASOLINE TANK AREA**

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
MP	7/29/04	ND	6.4	ND	ND	ND	8.8
	10/28/04	390	170	0.70	ND	2.4	57
	12/8/04	N/A	N/A	N/A	N/A	N/A	N/A
	1/24/05	520	260	0.53	ND	1.9	89
	4/28/05	220	110	ND	ND	.63	54
	7/19/05	760	370	.68	ND	2.6	92
	10/06/05	190	71	ND	ND	ND	49
	<b>1/30/06</b>	<b>300</b>	<b>130</b>	<b>0.74</b>	<b>ND</b>	<b>2.5</b>	<b>71</b>
MW-4	10/21/2002	N/A	5,800	6,200	3,500	18,000	140
	1/28/03	N/A	7,200	3,500	2,700	15,000	130
	4/28/03	N/A	5,700	850	ND<120	10,000	200
	7/25/03	97,000	11,000	8,400	4,900	24,000	ND<250
	10/30/03	77,000	12,000	9,300	3,200	16,000	ND < 200
	1/23/04	100,000	16,000	10,000	1,100	19,000	ND < 1,200
	4/27/04	78,000	13,000	7,800	3,200	17,000	ND < 1,000
	7/29/2004	46,000	8,300	2,100	2,000	7,900	ND<500

**TABLE 2A, Continued**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE**  
**FORMER GASOLINE TANK AREA**

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
MP	10/28/04	80,000	15,000	7,100	3,500	14,000	ND<1,000
	12/8/04	N/A	N/A	N/A	N/A	N/A	N/A
MP	1/24/05	70,000	9,900	850	2,500	11,000	ND<1,000
	4/28/05	79,000	9,400	690	4000	16,000	ND<900
	7/19/05	35,000	7,500	92	1,900	3,900	ND<500
	10/06/05	65,000	12,000	2,100	3,200	11,000	ND<500
	<b>1/30/06</b>	<b>45,000</b>	<b>9,800</b>	<b>380</b>	<b>2,400</b>	<b>6,500</b>	<b>ND&lt;130</b>
<b>MW-5</b>	10/21/2002	65,000	12,000*	20,000*	1,600*	7,100*	ND<100
	1/28/03	N/A	9,100	6,600	720	4,000	ND<100
	4/28/03	N/A	12,000	8,300	ND<250	2,100	ND<250
	7/25/03	62,000	13,000	14,000	1,300	5,200	ND<250
	10/30/03	33,000	7,500	2,200	490	1,600	ND < 100
	1/23/04	97,000	18,000	20,000	ND<120	7,900	ND < 1,200
	4/27/04	39,000	12,000	11,000	920	4,300	ND < 1,000
	7/29/04	47,000	11,000	5,500	690	2,800	ND < 1,000
MP	10/28/04	130,000	23,000	25,000	2,000	9,700	ND< 1,700

**TABLE 2A, Continued**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE**  
**FORMER GASOLINE TANK AREA**

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
MP	12/8/04	N/A	N/A	N/A	N/A	N/A	N/A
	1/24/05	150,000	22,000	25,000	2,100	12,000	ND<1,000
	4/28/05	89,000	18,000	11,000	1,600	8,900	ND < 500
	7/19/05	39,000	11,000	200	710	1,700	ND < 500
	10/06/05	58,000	17,000	410	1,000	6,600	ND<500
	<b>1/30/06</b>	<b>61,000</b>	<b>15,000</b>	<b>5,500</b>	<b>1,100</b>	<b>5,600</b>	<b>ND &lt; 500</b>

**NOTES:**

ND Analyte not detected at stated reporting limit  
 N/A Not analyzed  
 u/n Unless noted otherwise (Reporting Limit)  
 MP Sampling by micro-purge technique

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.

**TABLE 4**  
**SUMMARY OF WATER SAMPLE ANALYSES:**  
**FORMER DIESEL TANK AREA MONITORING WELL**

TOTAL PETROLEUM HYDROCARBONS AS DIESEL,

EPA METHOD 8015C, 8021

RESULTS IN µg/L (ppb)

<i>Sample Date</i>	<i>TPH as DIESEL</i>	<i>BTEX</i>
1/30/06	120	ND
10/06/05	340	ND
7/19/05	53	ND
4/28/05	70	ND
1/24/05	77	ND
10/28/04	58	ND
7/29/04	ND<50	ND
4/27/04	110	< 0.91
1/23/04	71	ND
10/30/03	87	ND
7/25/03	90*	ND*
4/28/2003	87	ND
3/ 8/ 96	340	ND
2/1/95	380	ND
6/15/94	170	ND
3/15/94	200	ND
12/1/93	300	ND

For reporting limits refer to table 2 and laboratory certificates appended.

ORO LOMA SANITARY DISTRICT

*table 4D for 14th qtrly 2006-01.doc*

# WELLHEAD INSPECTION CHECKLIST

Date 1/30/06 Client The Sutton Group  
 Site Address 2600 Grant Ave., San Lorenzo CA  
 Job Number 060130-DRI Technician DR

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1		X					X <del>DR</del>	
MW-2		X					X Y	
MW-3							X	
MW-4							X	
MW-5							X	
MW-D1							X	

NOTES: All wells have no locks.  
MW-2 Tabs broken - Y

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## WELL GAUGING DATA

Project # 060130-DR1 Date 1/30/06 Client The Sutton Group

Site 2600 Grant Ave., San Lorenzo CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: <del>TOB</del> or TOC
MW-1	2					6.93	14.62	↓
MW-2	2					5.58	15.52	
MW-3	2					5.34	15.80	
MW-4	2	odor				4.76	13.98	
MW-5	2					4.68	13.69	
MW-D1	4					2.56	14.33	



## WELL MONITORING DATA SHEET

Project #: 060130-001	Client: <i>Sutton Group</i>
Sampler: <i>JR</i>	Start Date: <i>1/30/06</i>
Well I.D.: <i>MW-1</i>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: <i>14.62</i>	Depth to Water: <i>6.93</i>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <del>Grade</del>	D.O. Meter (if req'd): YSI    HACH

Purge Method:

- Bailer  
 Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible  
 Waterra  
 Peristaltic  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling Method:

- Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

*DTW 80% = 8.47*

*8.95*

<i>1.2</i> (Gals.) X	<i>3</i>	= <i>3.6</i> Gals.
I Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp. (°F or °C)	pH	Conductivity (mS or $\mu$ S)	Turbidity (NTU)	Gals. Removed	Observations
900	63.0	6.5	50120	38	1.2	clear
903	64.1	6.6	<del>5555</del> 5530553		2.4	Dark grey/grey color
<i>↓</i>	Well dewatered at 2.5 gal.					
1245	61.8	6.6	51900	138	—	light cloudy/color

Did well dewater?  Yes     No    Gallons actually evacuated: *2.5*

Sampling Time: *1245*    Sampling Date: *1/30/06*

Sample I.D.: *MW-1*    Laboratory: *McCampbell* STL

Analyzed for:  TPH-G     BTEX     MTBE    TPH-D    Other:

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time    Duplicate I.D.: \_\_\_\_\_

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Other:

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L    Post-purge: \_\_\_\_\_ mg/L

ORP (if req'd): Pre-purge: \_\_\_\_\_ mV    Post-purge: \_\_\_\_\_ mV

### WELL MONITORING DATA SHEET

Project #: <u>060130 - DRI</u>	Client: <u>Sutton Group</u>
Sampler: <u>DA</u>	Date: <u>1/30/06</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>15.52</u>	Depth to Water (DTW): <u>5.58</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <del>Grate</del>	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>7.57</u>	

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	---

$\frac{1.6 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{4.8 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F or °C)	pH	Cond. (µS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
917	62.7	7.1	6818	339	1.6	cloudy
921	64.7	7.1	7523	320	3.2	"
925	65.1	7.1	8550	533	4.8	"
<del>well</del> well dewatered at 5.8 gal.						
1305	63.9	7.2	11950	80	—	clear

Did well dewater? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Gallons actually evacuated: <u>5.8</u>	
Sampling Date: <u>1/30/06</u>	Sampling Time: <u>1305</u>	Depth to Water: <u>7.43</u>
Sample I.D.: <u>MW-2</u>	Laboratory: Kiff CalScience	Other: <u>McCampbell</u>
Analyzed for: <del>TPH-G</del> <del>BTEX</del> <del>MTBE</del> TPH-D Oxygenates (5) Other:		
EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____		
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

## WELL MONITORING DATA SHEET

Project #: 060130 - DRI	Client: Sulfen Group
Sampler: DA	Date: 1/30/06
Well I.D.: MW-3	Well Diameter: <input checked="" type="radio"/> 2 3 4 6 8
Total Well Depth (TD): 15.80	Depth to Water (DTW): 5.34
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.43	

Purge Method: Bailer	Waters: Peristaltic	Sampling Method: Bailer
<input checked="" type="checkbox"/> Disposable Bailer	<input type="checkbox"/> Extraction Pump	<input checked="" type="checkbox"/> Disposable Bailer
Positive Air Displacement	Other: _____	Extraction Port
Electric Submersible		Dedicated Tubing
		Other: _____

$1.7 \text{ (Gals.)} \times 3 = 5.1 \text{ Gals.}$	<table border="1" style="font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														
1 Case Volume	Specified Volumes	Calculated Volume															

Time	Temp (°F or °C)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
942	62.3	6.9	6033	297	1.7	light cloudy
946	63.1	6.8	11250	814	3.4	cloudy
950	64.6	6.7	22690	> 1000	5.1	" / odor
<del>well</del> well dewatered at 6 gal.						
1155	60.9	7.0	22420	125	—	light cloudy

Did well dewater?  Yes  No      Gallons actually evacuated: 6

Sampling Date: 1/30/06      Sampling Time: 1155      Depth to Water: 5.38

Sample I.D.: DR      Laboratory: Kiff    CalScience    Other: McCampbell

Analyzed for: ~~TPH-G~~ ~~BTEX~~ ~~MTBE~~ TPH-D / Oxygenates (5)    Other:

EB I.D. (if applicable): @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5)    Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## WELL MONITORING DATA SHEET

Project #: <u>060130-DRI</u>	Client: <u>Sutton Group</u>
Sampler: <u>DQ</u>	Date: <u>1/30/06</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>13.98</u>	Depth to Water (DTW): <u>4.76</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>6.60</u>	

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	---

<u>1.5</u> (Gals.) X	<u>3</u> Specified Volumes	= <u>4.5</u> Gals. Calculated Volume
----------------------	----------------------------	--------------------------------------

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1022	62.6	6.9	6513	> 1000	1.5	cloudy / odor / sheen
1025	64.6	6.8	11630	> 1000	3.0	" " "
1028	66.5	6.8	26720	> 1000	4.5	" " "
<del>well</del> well dewatered at 5 gal.						
1220	61.2	7.0	10800	509	—	—

Did well dewater?  Yes No Gallons actually evacuated: 5.0

Sampling Date: 1/30/06 Sampling Time: 1220 Depth to Water: 4.89

Sample I.D.: MW-4 Laboratory: Kiff CalScience Other McCampbell

Analyzed for: ~~TPH-G~~ ~~BTEX~~ ~~MTBE~~ TPH-D Oxygenates (5) Other: 4.89 DA

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

### WELL MONITORING DATA SHEET

Project #: 060130-DR1	Client: Suttan Group
Sampler: DR	Date: 1/30/06
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth (TD): 13.69	Depth to Water (DTW): 4.68
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.48	

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	---

1.4 (Gals.) X 3 = 4.2 Gals.   Case Volume                      Specified Volumes                      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F or °C)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1007	62.3	6.8	13490	> 1000	1.4	cloudy
1010	64.2	6.8	29020	> 1000	2.8	" / odor
* will de-watered at 3 gal.						
1315	62.2	7.0	22850	240	—	light cloudy

Did well dewater?  Yes    No                      Gallons actually evacuated: 3.0

Sampling Date: 1/30/06                      Sampling Time: 1315                      Depth to Water: 6.27

Sample I.D.: MW-5                      Laboratory: Kiff    CalScience    Other McCampbell

Analyzed for: ~~TPH-G~~ ~~BTEX~~ ~~MTBE~~ TPH-D    Oxygenates (5)    Other:

EB I.D. (if applicable): @ Time                      Duplicate I.D. (if applicable):

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Oxygenates (5)    Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

**Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558**

## WELL MONITORING DATA SHEET

Project #: 060130 - DR1	Client: <i>Burton Group</i>
Sampler: DR	Date: 1/30/06
Well I.D.: MW-D1	Well Diameter: 2 3 ④ 6 8
Total Well Depth (TD): 14.33	Depth to Water (DTW): 2.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <del>Grade</del>	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.91	

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible  
 Waterra:  Peristaltic  Extraction Pump  Other \_\_\_\_\_  
 Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing  
 Other: \_\_\_\_\_

$2.7 \text{ (Gals.)} \times 3 = 23.1 \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														
1 Case Volume      Specified Volumes      Calculated Volume																	

Time	Temp (°F or °C)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1056	62.9	7.9	5571	<del>7000</del>	7.7	cloudy grey / odor
1102	64.4	7.8	4773	>1000	15.4	" "
1108	64.9	7.8	4527	>1000	23.1	" "

Did well dewater?    Yes     No     Gallons actually evacuated: 23.1

Sampling Date: 1/30/06    Sampling Time: 1115    Depth to Water: 2.61

Sample I.D.: MW-D1    Laboratory: Kiff    CalScience    Other *McCampbell*

Analyzed for: TPH-G ~~BTEX~~ ~~MTBE~~ ~~TPH-D~~ Oxygenates (5)    Other:

EB I.D. (if applicable): @ \_\_\_\_\_ Time    Duplicate I.D. (if applicable):

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Oxygenates (5)    Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

## CONDUCT ANALYSIS TO DETECT

LAB

McC Campbell

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER
- RWQCB

### SPECIAL INSTRUCTIONS

Invoice and Report to : The Sutton Group

email results "non-certified" as "pdf" to:  
 johnrsutton@mindspring.com or  
 suttongeo@sbcglobal.net

ADD'L INFORMATION      STATUS      CONDITION      LAB SAMPLE #

CHAIN OF CUSTODY

BTS # 060130-DR1

CLIENT The Sutton Group

SITE 2600 Grant Ave.  
 San Lorenzo, CA



C = COMPOSITE ALL CONTAINERS

TPH-G by 8015  
 BTEX by 8021  
 MTBE by 8021  
 TPH-D

SAMPLE I.D.	DATE	TIME	MATRIX		CONTAINERS	C	TPH-G by 8015	BTEX by 8021	MTBE by 8021	TPH-D									
			S=SOIL	W=H <sub>2</sub> O															
- MW-1	1/30/06	1245	W		3		X	X	X										
- MW-2		1309	W		3		X	X	X										
- MW-3		1155	W		3		X	X	X										
- MW-4		1220	W		3		X	X	X										
- MW-5		1315	W		3		X	X	X										
⊙ MW-D1		1115	W		5			X	X	X									
- TB	1/30/06		W		2		X	X	X										

On hold <sup>sent</sup> 1/31/06

SAMPLING COMPLETED DATE 1/30/06 TIME 1415 SAMPLING PERFORMED BY Devin Reyna RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY  DATE 1/30/06 TIME 1415 RECEIVED BY  DATE 1/30/06 TIME 1534

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

SHIPPED VIA \_\_\_\_\_ DATE SENT \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # \_\_\_\_\_

# BLAINE

TECH SERVICES, INC

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB McCCampbell DHS # \_\_\_\_\_

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA  
 LIA  
 OTHER  
 RWQCB

SPECIAL INSTRUCTIONS

Invoice and Report to : The Sutton Group

email results "non-certified" as "pdf" to:  
 johnrsutton@mindspring.com or  
 suttongeo@sbcglobal.net

CHAIN OF CUSTODY  
 BTS # 060130 D21

CLIENT The Sutton Group

SITE 2600 Grant Ave.  
San Lorenzo, CA

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX % SOIL W=100	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	TPH-G by 8015	BTEX by 8021	MTBE by 8021	TPH-D											ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #	
+ MW-1	1/30/06	1245	W	3		X	X	X																
+ MW-2		1305	W	3		X	X	X																
+ MW-3		1155	W	3		X	X	X																
+ MW-4		1220	W	3		X	X	X																
+ MW-5		1315	W	3		X	X	X																
+ MW-D1		1115	W	5			X	X	X															
✓ TB	1/30/06		W	2		X	X	X																

ICB/GOOD CONDITION  HEADSPACE ABSENT  DECHLORINATED IN LAB  PRESERVED IN LAB  PRESERVATION  VOAS  GLO  METALS  OTHER

SAMPLING COMPLETED 1/30/06 1415 SAMPLING PERFORMED BY Dev. n Reynal RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY <u>[Signature]</u>	DATE <u>1/30/06</u>	TIME <u>1415</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>1/30/06</u>	TIME <u>1534</u>
RELEASED BY <u>[Signature]</u>	DATE <u>1/30/06</u>	TIME <u>1438</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>1/31/06</u>	TIME <u>1438</u>
RELEASED BY <u>[Signature]</u>	DATE <u>1/31/06</u>	TIME <u>946</u>	RECEIVED BY <u>[Signature]</u>	DATE	TIME
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		



**McC Campbell Analytical, Inc.**



110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0601473

ClientID: TSG

EDF: NO

Report to:

John Sutton  
 The Sutton Group  
 3708 Mt. Diablo Blvd, Ste. 215  
 Lafayette, CA 94549

TEL: 925-284-4208  
 FAX: 925-284-4189  
 ProjectNo: 2600 Grant Ave. San Lorenzo, CA  
 PO:

Bill to:

Accounts Payable  
 The Sutton Group  
 3708 Mt. Diablo Blvd, Ste. 215  
 Lafayette, CA 94549

Requested TAT:

5 days

Date Received: 01/31/2006

Date Printed: 01/31/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0601473-001	MW-1	Water	1/30/06 12:45:00		A												
0601473-002	MW-2	Water	1/30/06 1:09:00 PM		A												
0601473-003	MW-3	Water	1/30/06 11:55:00		A												
0601473-004	MW-4	Water	1/30/06 12:20:00		A												
0601473-005	MW-5	Water	1/30/06 1:15:00 PM		A												
0601473-006	MW-D1	Water	1/30/06 11:15:00		A	B											
0601473-007	TB	Water	1/30/06		A												

Test Legend:

1	G-MBTX_W	2	TPH(D)_W	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



# McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

The Sutton Group 3708 Mt. Diablo Blvd, Ste. 215 Lafayette, CA 94549	Client Project ID: 2600 Grant Ave. San Lorenzo, CA	Date Sampled: 01/30/06
	Client Contact: John Sutton	Date Received: 01/31/06
	Client P.O.:	Date Extracted: 02/01/06-02/03/06
		Date Analyzed: 02/01/06-02/03/06

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0601473

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	ND	ND	ND	ND	ND	ND	1	92
002A	MW-2	W	ND	ND	ND	ND	ND	ND	1	94
003A	MW-3	W	300,a	71	130	0.74	ND	2.5	1	110
004A	MW-4	W	45,000,a	ND<130	9800	380	2400	6500	10	107
005A	MW-5	W	61,000,a	ND<500	15,000	5500	1100	5600	100	94
006A	MW-D1	W	---	ND	ND	ND	ND	ND	1	98
007A	TB	W	ND	ND	ND	ND	ND	ND	1	98

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.





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**QC SUMMARY REPORT FOR SW8021B/8015Cm**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0601473

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 20124			Spiked Sample ID 0601473-007A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	102	105	2.63	92.1	93.4	1.34	70 - 130	70 - 130
MTBE	ND	10	108	106	1.79	93.9	93.1	0.850	70 - 130	70 - 130
Benzene	ND	10	98.3	94.4	4.07	88.4	94.1	6.21	70 - 130	70 - 130
Toluene	ND	10	96.3	94	2.40	86.6	92.8	6.99	70 - 130	70 - 130
Ethylbenzene	ND	10	98.7	96.8	1.91	93.7	98.3	4.85	70 - 130	70 - 130
Xylenes	ND	30	100	99.7	0.334	90.3	91	0.735	70 - 130	70 - 130
%SS:	98	10	99	96	2.69	89	96	8.49	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 20124 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0601473-001A	1/30/06 12:45 PM	2/02/06	2/02/06 5:58 PM	0601473-002A	1/30/06 1:09 PM	2/02/06	2/02/06 6:28 PM
0601473-003A	1/30/06 11:55 AM	2/01/06	2/01/06 7:09 PM	0601473-004A	1/30/06 12:20 PM	2/01/06	2/01/06 8:13 PM
0601473-004A	1/30/06 12:20 PM	2/02/06	2/02/06 7:28 PM	0601473-005A	1/30/06 1:15 PM	2/02/06	2/02/06 12:44 AM
0601473-006A	1/30/06 11:15 AM	2/03/06	2/03/06 4:46 PM	0601473-007A	1/30/06	2/01/06	2/01/06 7:38 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.



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**QC SUMMARY REPORT FOR SW8015C**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0601473

EPA Method: SW8015C	Extraction: SW3510C			BatchID: 20096			Spiked Sample ID N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	104	103	0.930	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	98	98	0	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 20096 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0601473-006B	1/30/06 11:15 AM	1/31/06	2/01/06 3:26 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

\_\_\_\_\_ QA/QC Officer