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**Third Quarter 2005
Groundwater Monitoring and Sampling Report**

Mission Valley Rock Company
7999 Athenour Way
Sunol, California

Prepared by:
Tait Environmental Management, Inc.

October 14, 2005

October 14, 2005


**Third Quarter 2005
Groundwater Monitoring and Sampling Report**

Mission Valley Rock Company
7999 Athenour Way
Sunol, California

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Project No. EM-5009A

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**Third Quarter 2005
Groundwater Monitoring and Sampling Report
Mission Valley Rock Company
Sunol, California**

1.0 INTRODUCTION

This report summarizes the third quarter 2005 groundwater monitoring and sampling event conducted at the Mission Valley Rock Company (Site) located at 7999 Athenour Way in Sunol, California (Figure 1). The wells were sampled as part of the 3rd Quarter 2005 groundwater monitoring and sampling program.

2.0 OBJECTIVE

The objective of the proposed scope of work was to:

Monitor and sample the existing groundwater monitoring wells at the Site.

3.0 SCOPE OF WORK

The scope of work that Tait Environmental Management (TEM) developed to meet the objectives included the following tasks:

- Groundwater Monitoring & Sampling
- Laboratory Analyses
- Monitoring Well Survey
- Report Preparation

4.0 BACKGROUND

In May of 1996, Tank Protect Engineering (TPE) removed two (2) diesel and one (1) gasoline underground storage tank (UST). During June of 1998, three (3) groundwater-monitoring wells (MW-1, MW-2, and MW-3) were installed at the Site. Quarterly groundwater-monitoring continued from January of 1999 through March of 2000.

In June of 2000, TEM assumed the contract for environmental services at the Site. In December of 2002, eight (8) soil borings (TB-1 through TB-8) were drilled and sampled at the Site using a direct-push rig. In January of 2005, 8 additional soil borings were advanced at the Site using a hollow-stem drill rig. Six (6) of the borings were converted to single, double, and triple completion groundwater monitoring wells for a total of 12 wells. Groundwater-monitoring well MW-2 was abandoned.

Quarterly groundwater monitoring and sampling have been conducted by TEM from the 4th quarter 2000 through the present.



4.1 Site Geology

Drilling and sampling activities indicate that a clay layer exists from the near-surface to between 10 and 15 feet bgs, with the exception of MW-2S/2M/2D, which contains clay to 25 feet bgs. The soils to total depth of the borings consist of gravelly sand and sandy gravel mixtures. Sand was found from approximately 10 to 20 feet bgs. in the boring containing MW-5S/5D.

5.0 GROUNDWATER MONITORING WELL PURGING AND SAMPLING

On August 11th, 2005, static groundwater levels were measured and recorded in the onsite groundwater monitoring wells using an electrical product/water interface meter. Water levels were measured from the top of the well casing (representing the wellhead survey point). The meter was decontaminated prior to use at each well with a mild detergent solution and two (2) de-ionized water rinses.

On August 11th and 12th, 2005, the groundwater monitoring wells were sampled using a 2" diameter electrical submersible pump as part of the third quarter 2005 groundwater monitoring and sampling event. Approximately 85 gallons of purged groundwater was pumped into steel 55-gallon drums during the sampling event. Groundwater samples were collected from the discharge end of the pump at low flow levels into laboratory-supplied containers. Care was taken to insure no headspace was allowed into the containers.

Groundwater samples were collected from fourteen (14) wells. They were labeled, placed into an ice-chilled cooler (4°C), and transported under chain-of-custody protocol to SunStar Laboratories, Inc. (SunStar), a State-Certified laboratory for chemical analysis.

Based on monitoring well data, the depth to groundwater measured at the Site averaged 5.25 feet bgs. The apparent groundwater flow direction is to the southeast at a gradient of approximately 0.017 ft/ft. Groundwater gauging and elevation data for the 3rd Quarter 2005 event is summarized in Table 1. Historical groundwater elevation data is summarized in Table 2. Groundwater sampling data sheets are presented in Appendix A.

6.0 LABORATORY ANALYSES

The groundwater samples collected during the groundwater monitoring and sampling event were analyzed for:

- The Diesel and Gasoline fraction of Total Petroleum Hydrocarbons (TPHd and TPHg, respectively) using EPA Method No. 8015M.
- Volatile Organic Compounds (VOC's) including benzene, toluene, ethylbenzene, total xylenes (BTEX); methyl-tert-butyl ether (MTBE), and the other fuel oxygenates Tert-amyl methyl ether (TAME), Tert-butyl alcohol (TBA), Di-isopropyl ether (DIPE), and Ethyl tert-butyl ether (ETBE) using EPA Method No. 8260B.



Dissolved-phase TPH-g concentrations in the shallow groundwater zone is presented in Figure 4, and deep zone concentrations are contoured in Figure 5. Dissolved-phase MTBE concentrations shallow zone wells are reported and contoured in Figure 6. Deep zone MTBE concentrations are contoured and presented in Figure 7.

Third Quarter 2005 groundwater analytical results are summarized in Table 3 and a copy of the laboratory analytical report is presented in Appendix B. Historical groundwater analytical results are summarized in Table 4.

7.0 SUMMARY OF ACTIVITIES AND FINDINGS

Based upon the data presented in this report, previous investigations, current regulatory guidelines, and the judgment of TEM, the following is a summary of activities and findings:

- Based on the depth to water measurements obtained by TEM, groundwater levels averaged 5.25 feet bgs. The groundwater flow direction to the southeast at a gradient of approximately 0.015 ft/ft.
- A total of 14 groundwater samples were collected from the monitoring wells at the Site, and they were delivered to SunStar for analysis.
- A maximum TPH-D concentration of 37 µg/L was detected in well MW-7D.
- A maximum TPH-G concentration in groundwater of 83,000 µg/L was detected in well MW-7D.
- A maximum benzene concentration of 550 µg/L was detected in well MW-7D.
- A maximum MTBE concentration of 410 µg/L was detected in well MW-6S.
- TBA was detected in MW-8 with a concentration of 160 µg/L.

Based on groundwater sampling data, the BTEX concentrations were low, and fuel oxygenates other than MTBE and TBA were not detected above laboratory detection limits. The TPH-G, TPH-D, and MTBE concentrations were higher.

8.0 RECOMMENDATIONS

Based on the work conducted to date, the data obtained during field activities, current regulatory guidelines, and the professional judgment of TEM, the following recommendation is presented for your consideration:

- TEM proposes to perform a feasibility study and prepare a remedial action plan to remediate the limited impact of TPH-G and TPH-D in the vicinity of monitoring well MW-7.
- Continue to monitor the groundwater on a quarterly basis.



9.0 QUALITY ASSURANCE/QUALITY CONTROL

To increase the confidence levels in the data obtained and minimize the likelihood that judgments were made from potentially erroneous data, a quality assurance/quality control (QA/QC) program was implemented. QA refers to management of actions designed to maintain precision, accuracy, completeness, and representativeness of the data developed from the project. QC refers to accepted formal procedures and activities specifically designed for the purpose of collecting data that are intended to be reliable and consistent for the Site conditions.

The program includes formal procedures for drilling, sampling, well installation, decontamination, instrument calibration, documentation of activities and calculations, and peer review. Routine QC procedures were performed by the laboratory and included daily calibration of instruments, percent surrogate recoveries and analysis of matrix spikes and matrix spike duplicates (Appendix D). The laboratory reported the results to be within acceptable percent recoveries with no results exceeding the laboratory-established control limits.

10.0 LIMITATIONS

No investigation is considered thorough enough to exclude the presence of hazardous materials at a given site. Opinions and/or recommendations presented apply to Site conditions existing at the time of the performance of services and TEM is unable to report on or accurately predict events which may impact the Site following conduct of the described services, whether occurring naturally or caused by external forces. No responsibility is assumed by TEM for conditions we were not authorized to investigate, or conditions not generally recognized as environmentally unacceptable at the time services were performed. Services hereunder were performed in accordance with our agreement and understanding with, and solely for the use of, MVR. We are not responsible for the subsequent separation, detachment or partial use of this document. Any reliance on this report by a third party shall be at such party's sole risk.

11.0 REFERENCES

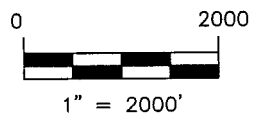
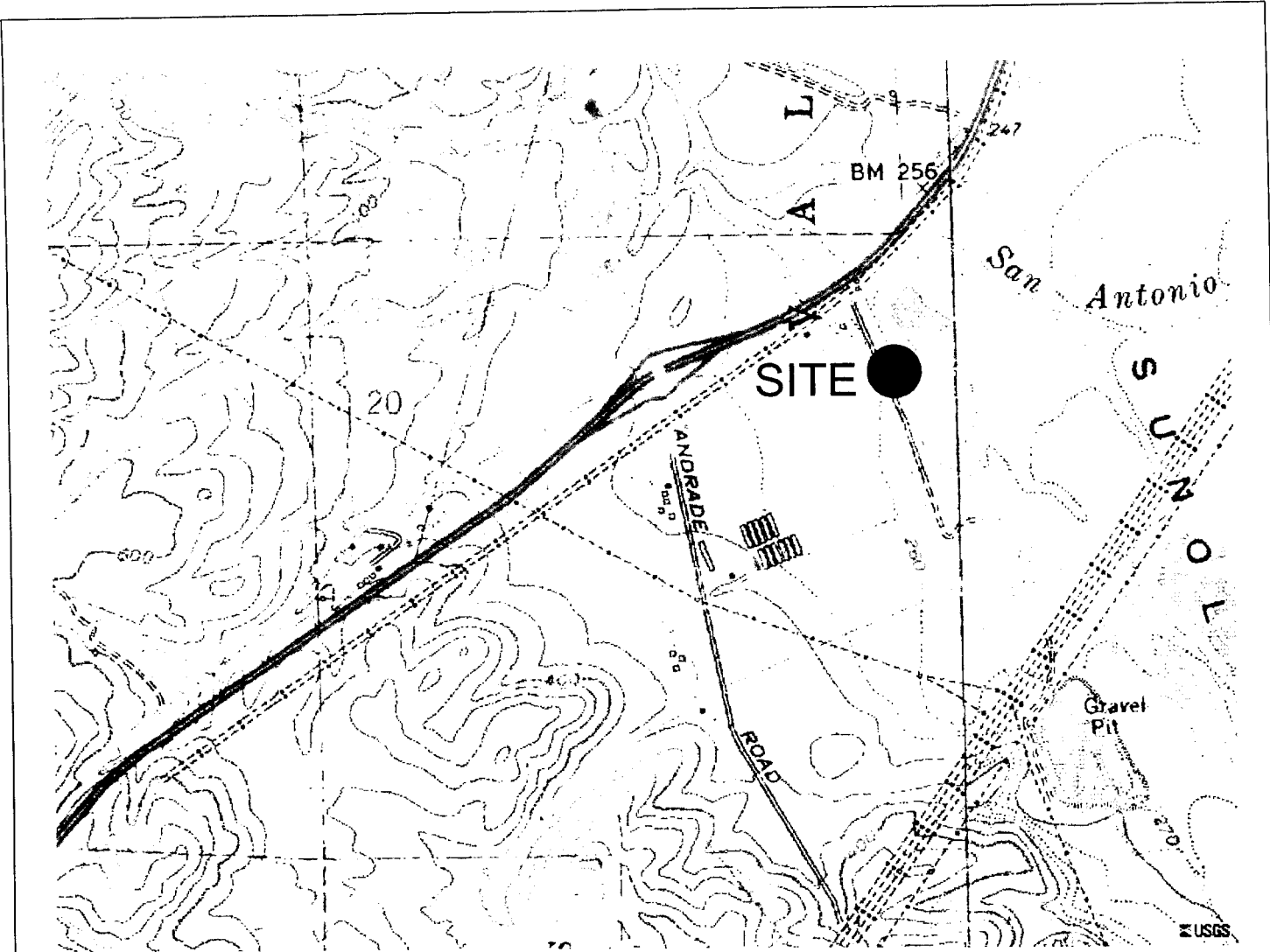
Groundwater Monitoring Report – Third Quarter 2002, Mission Valley Rock Company, 7999 Athenour Way, Sunol, California, prepared by TEM, November 5, 2002.

Drinking Water Standards, California Department of Health Services, January 31, 2001.

Environmental Protection Agency (EPA), Preliminary Remediation Goals (PRG's) for Region 9 (Residential Soils "Direct Contact Exposure Pathways), October 2002.

Site Assessment and First Quarter 2005 Groundwater Monitoring and Sampling Report, April 1, 2005.

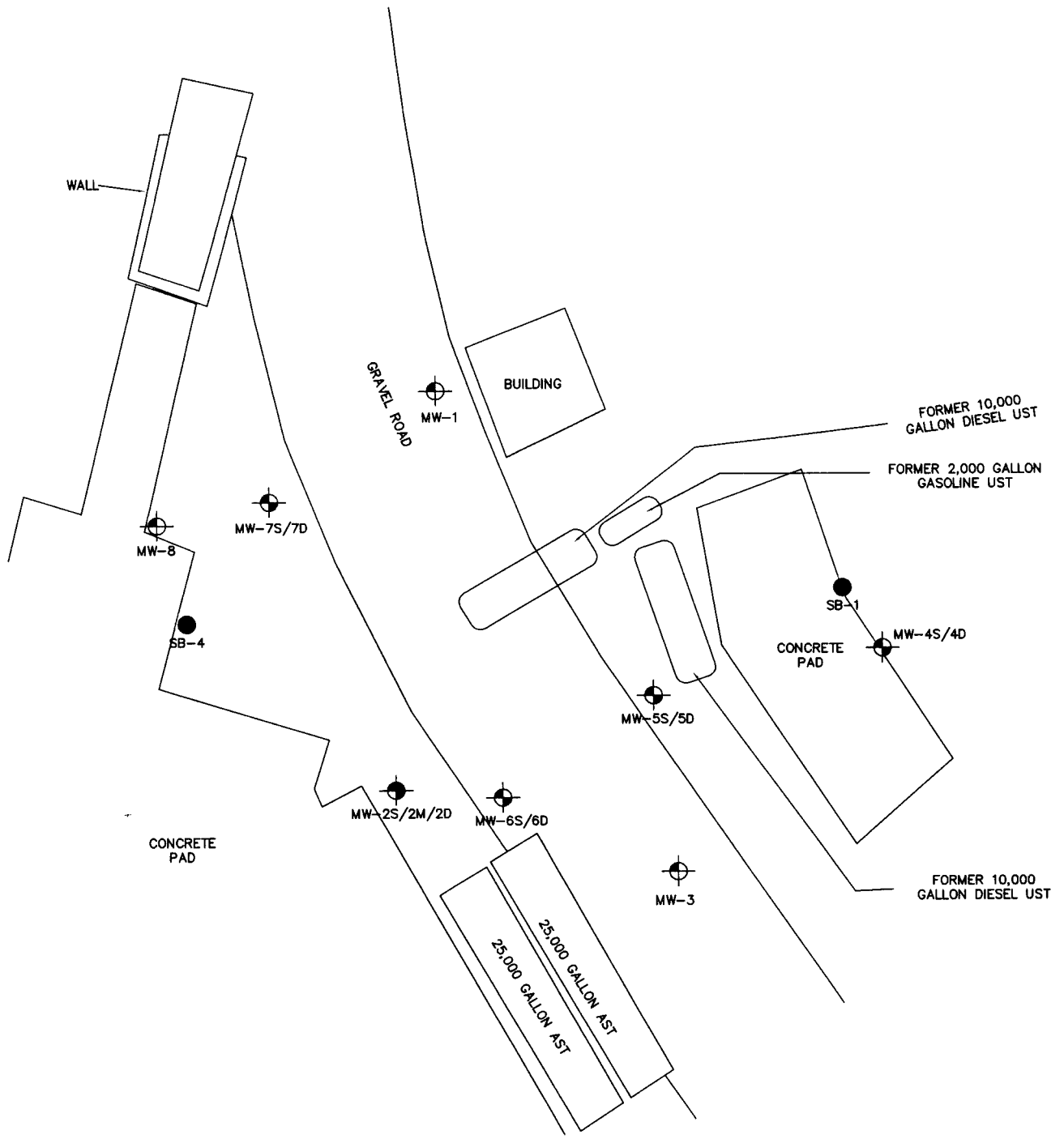
FIGURES







NOTES:

BASE MAP OBTAINED FROM TERRASERVER.COM, UNITED STATES GEOLOGICAL SURVEY (USGS), FREEMONT QUADRANGLE, ALAMEDA COUNTY, CALIFORNIA. PRINTED JULY 1, 1989.

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ENVIRONMENTAL MANAGEMENT, INC.	
SITE VICINITY MAP MISSION VALLEY ROCK CO. 7999 ATHENOUR WAY SUNOL, CALIFORNIA	
PROJECT NO. EM-5009	FIGURE 1



Legend:

-  Groundwater Monitoring Well - Single Completion
MW-1
-  Groundwater Monitoring Well - Dual Nested
MW-7S/7D
-  Groundwater Monitoring Well - Triple Nested
MW-2S/2M/2D
-  Temporary Soil Boring
SB-1



SCALE: 1 INCH=30 FEET

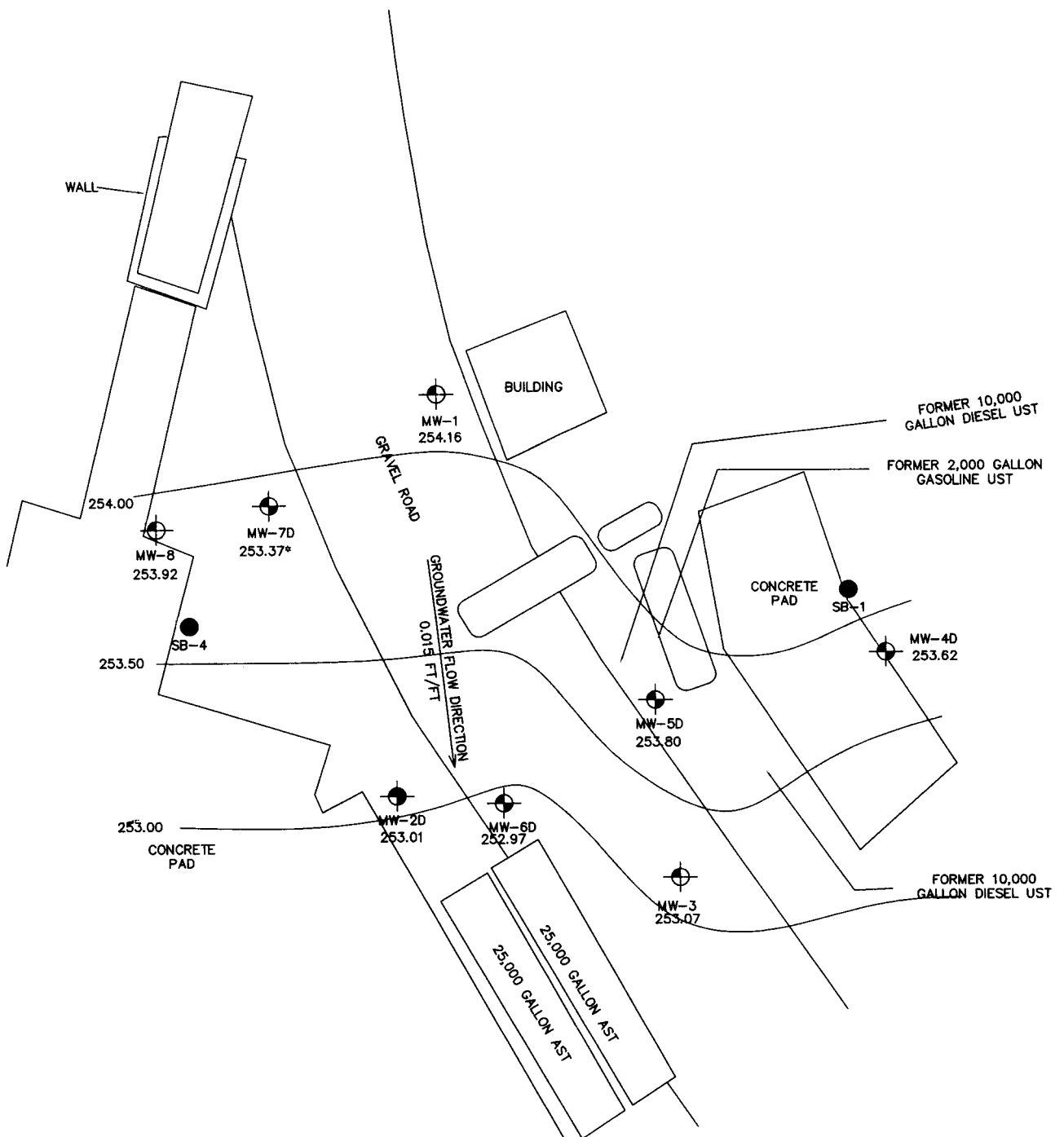
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SITE PLAN







MISSION VALLEY ROCK
 7999 ATHENOUR WAY
 SUNOL, CALIFORNIA

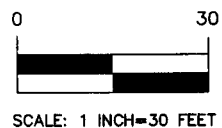
PROJECT NO. EM-5009B

FIGURE 2



Legend:

-  GROUNDWATER MONITORING WELL - SINGLE COMPLETION
MW-1
-  GROUNDWATER MONITORING WELL - DUAL NESTED
MW-7S/7D
-  GROUNDWATER MONITORING WELL - TRIPLE NESTED
MW-2S/2M/2D
-  GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION ABOVE SEA LEVEL
MW-1
254.16
-  GROUNDWATER ELEVATION NOT USED FOR CONTOURING
MW-7D
253.37*
-  SOIL BORING
SB-1

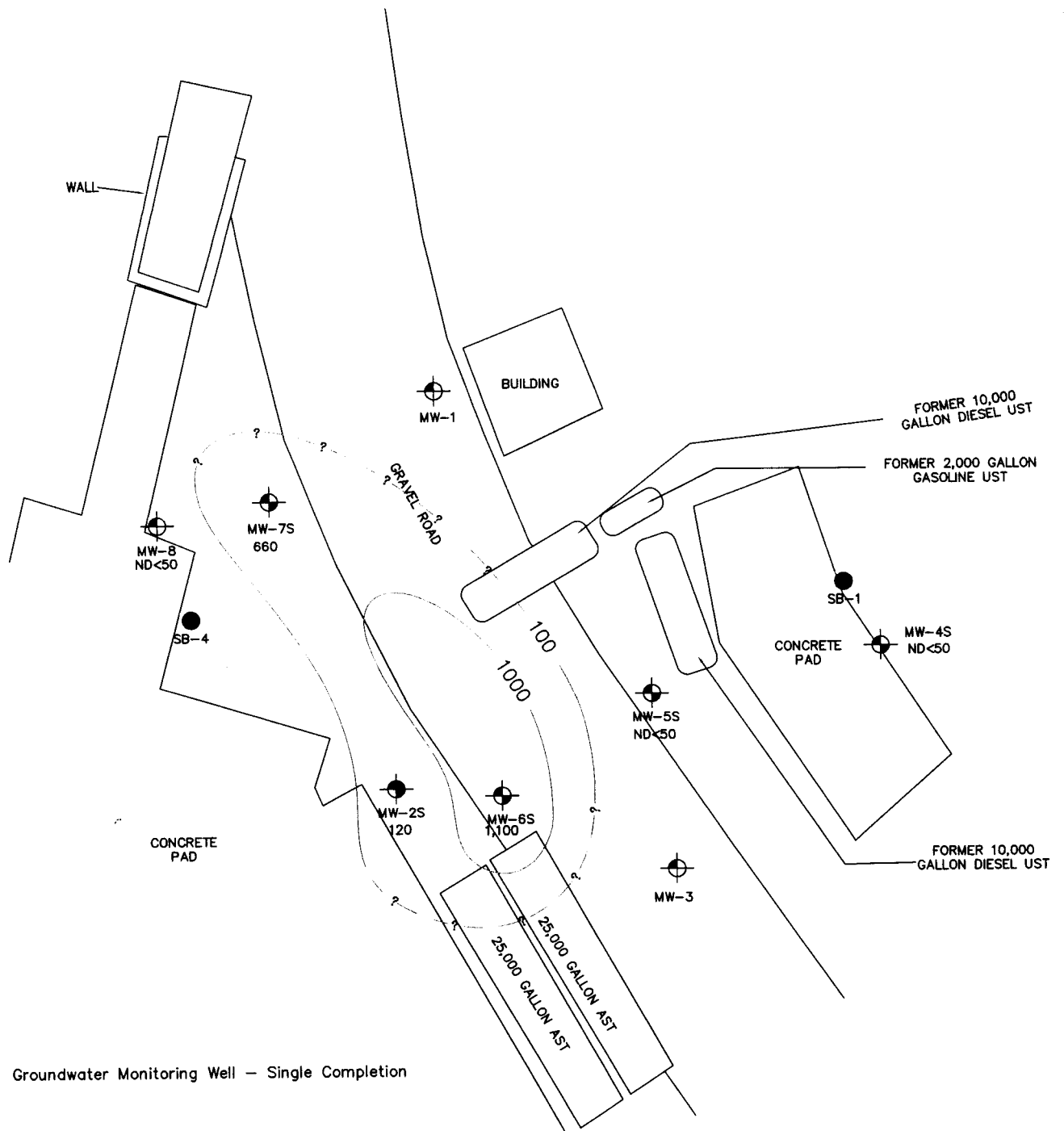


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









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**3RD QUARTER 2005
GROUNDWATER CONTOUR MAP
(DEEP ZONE)**

MISSION VALLEY ROCK
7999 ATHENOUR WAY
SUNOL, CALIFORNIA



Legend:

-  Groundwater Monitoring Well - Single Completion
-  MW-1
-  Groundwater Monitoring Well - Dual Completion
-  MW-4S
-  Groundwater Monitoring Well - Triple Completion
-  MW-2S
-  GROUNDWATER MONITORING WELL WITH
TPH-G CONCENTRATION MICROGRAMS
PER LITER (ug/L)
-  MW-2S
120
-  TPH-G CONCENTRATION
CONTOUR
-  TEMPORARY SOIL BORING
-  SB-4



SCALE: 1 INCH=30 FEET

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**3RD QUARTER 2005
TPH-G CONCENTRATIONS
IN GROUNDWATER (SHALLOW ZONE)**

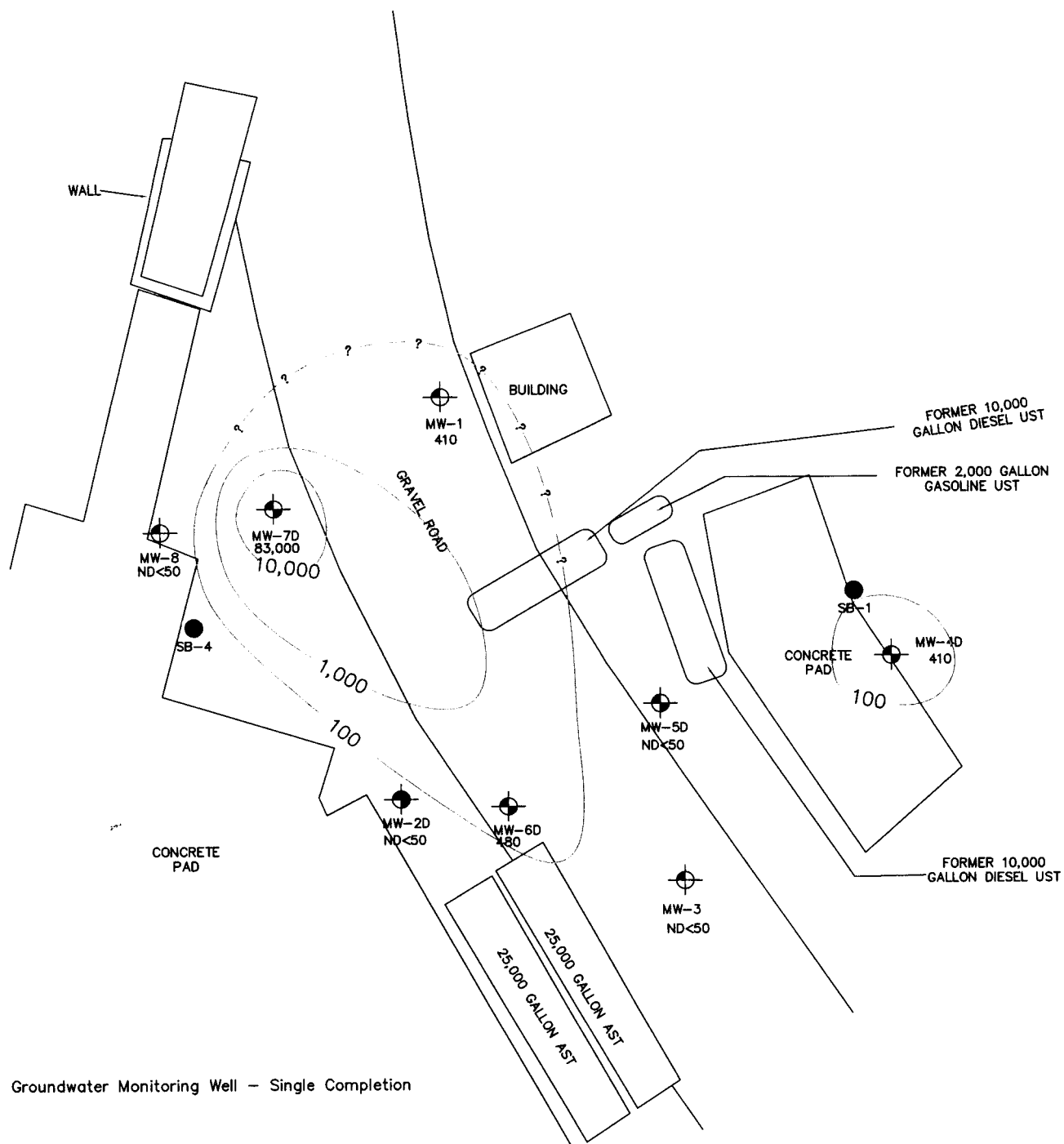
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7999 ATHENOUR WAY
SUNOL, CALIFORNIA

PROJECT NO. EM-5009B







FIGURE 4

GROUNDWATER SAMPLES COLLECTED ON AUGUST 11 AND 12, 2005

M:\TEM2\Clients\Mission Valley Rock\GW Monitoring 3rd Qtr 2005\TPH-G Contours Shallow Fig 4 08/08/05



Legend:

-  Groundwater Monitoring Well - Single Completion
- MW-1
-  Groundwater Monitoring Well - Dual Completion
- MW-4D
-  Groundwater Monitoring Well - Triple Completion
- MW-2D
-  GROUNDWATER MONITORING WELL WITH TPH-G CONCENTRATION MICROGRAMS PER LITER (µg/L)
- MW-2D 410
-  TPH-G CONCENTRATION CONTOUR
-  TEMPORARY SOIL BORING
- SB-4



SCALE: 1 INCH=30 FEET

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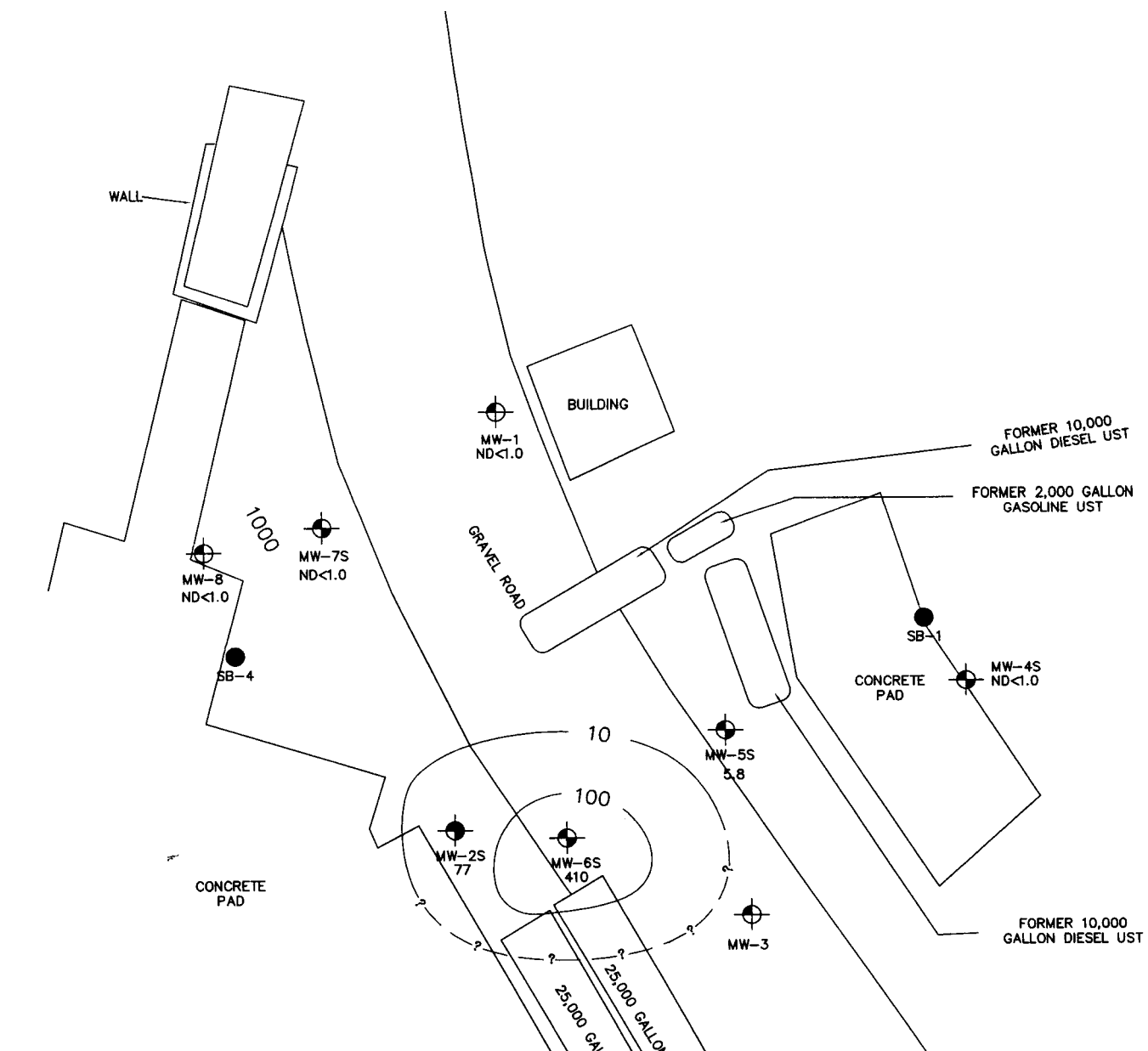
**3RD QUARTER 2005
 TPH-G CONCENTRATIONS
 IN GROUNDWATER (DEEP ZONE)**

MISSION VALLEY ROCK
 7999 ATHENOUR WAY
 SUNOL, CALIFORNIA












PROJECT NO. EM-5009B

FIGURE 5

GROUNDWATER SAMPLES COLLECTED AUGUST 11 AND 12, 2005



Legend:

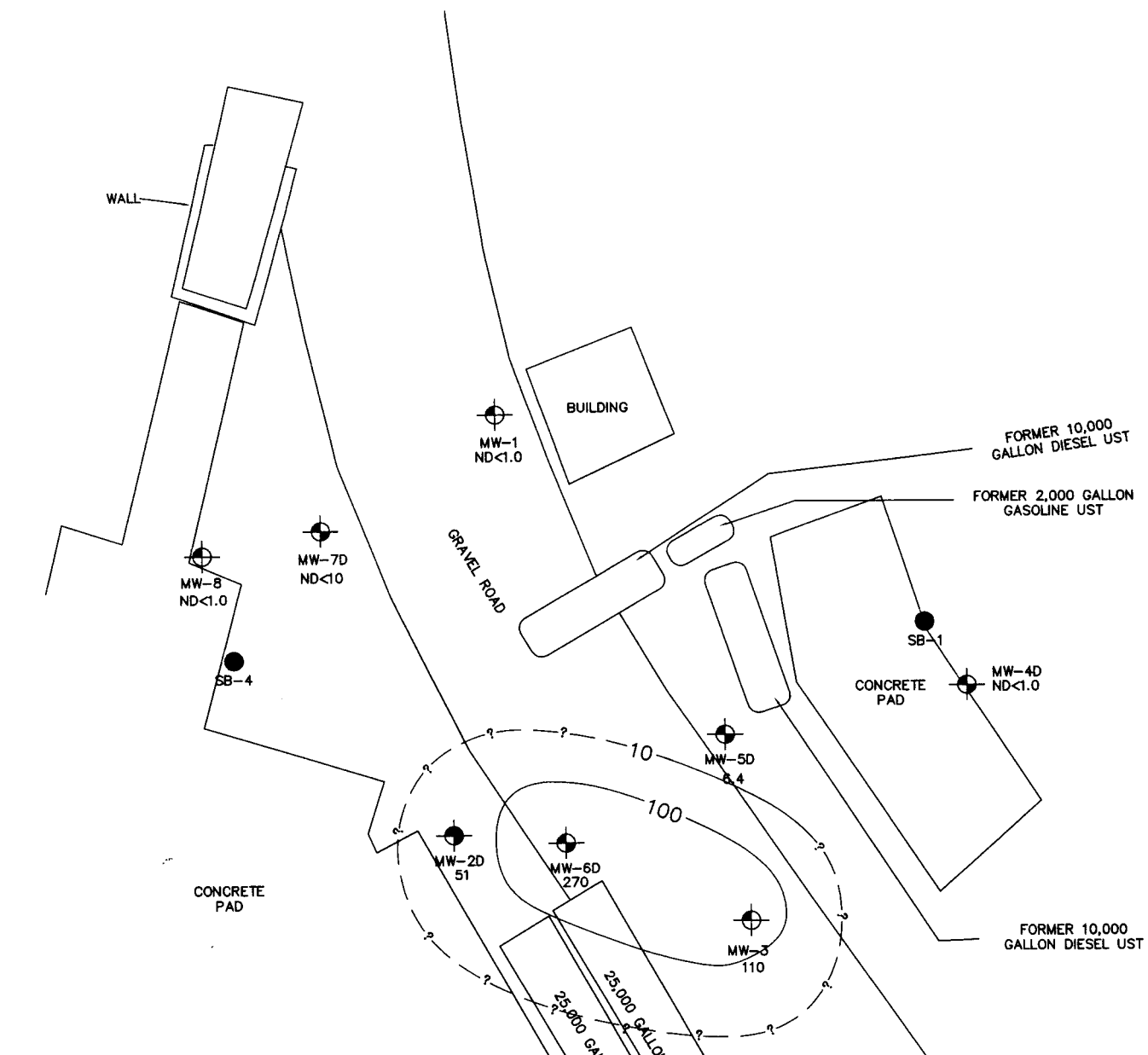
-  Groundwater Monitoring Well - Single Completion
-  MW-1
-  Groundwater Monitoring Well - Dual Completion
-  MW-4S
-  Groundwater Monitoring Well - Triple Completion
-  MW-2S
-  GROUNDWATER MONITORING WELL WITH MTBE CONCENTRATION MICROGRAMS PER LITER (ug/L)
-  MW-2S 77
-  MTBE CONCENTRATION CONTOUR
-  TEMPORARY SOIL BORING
-  SB-1

GROUNDWATER SAMPLES COLLECTED ON AUGUST 11 AND 12, 2005









SCALE: 1 INCH=30 FEET

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3RD QUARTER 2005 MTBE CONCENTRATIONS IN GROUNDWATER (SHALLOW ZONE)	
MISSION VALLEY ROCK 7999 ATHENOUR WAY SUNOL, CALIFORNIA	
PROJECT NO. EM-5009B	FIGURE 6



Legend:

-  Groundwater Monitoring Well – Single Completion
 MW-1
-  Groundwater Monitoring Well – Dual Completion
 MW-4D
-  Groundwater Monitoring Well – Triple Completion
 MW-2D
-  GROUNDWATER MONITORING WELL WITH MTBE CONCENTRATION MICROGRAMS PER LITER (ug/L)
 MW-2D 51
-  MTBE CONCENTRATION CONTOUR
-  TEMPORARY SOIL BORING
 SB-1

GROUNDWATER SAMPLES COLLECTED ON AUGUST 11 AND 12 2005



SCALE: 1 INCH=30 FEET

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**3RD QUARTER 2005
 MTBE CONCENTRATIONS
 IN GROUNDWATER (DEEP ZONE)**

MISSION VALLEY ROCK
 7999 ATHENOUR WAY
 SUNOL, CALIFORNIA

PROJECT NO. EM-5009B

FIGURE 7

TABLES

Table 1
Well Construction Details and Groundwater Elevation Data
Third Quarter 2005
 Mission Valley Rock Company
 Sunol, California

Well ID	Casing Diameter (inches)	Depth to Water (feet below TOC)	Total Depth (feet below TOC)	Screened Interval (feet bgs)	Measuring Point Elevation (feet MSL)	Groundwater Elevation (feet MSL)
MW-1	2	4.52	17.45	5.0 - 20.0	258.68	254.16
MW-2S	2	5.46	8.48	3.0-8.0	258.84	253.38
MW-2M	2	5.77	18.70	14.0-19.0	258.99	253.22
MW-2D	2	5.90	29.60	25.0-30.0	258.91	253.01
MW-3	2	6.01	14.50	5.0-20.0	259.08	253.07
MW-4S	2	3.45	8.71	3.0-8.0	259.14	255.69
MW-4D	2	5.60	23.15	17.0-22.0	259.22	253.62
MW-5S	2	5.30	8.00	3.0-8.0	259.43	254.13
MW-5D	2	5.60	22.65	17.0-22.0	259.40	253.80
MW-6S	2	5.17	14.75	5.0-15.0	258.75	253.58
MW-6D	2	6.30	28.90	24.5-29.5	259.27	252.97
MW-7S	2	4.80	8.35	5.0-8.0	258.82	254.02
MW-7D	2	4.70	22.55	20.0-25.0	258.07	253.37
MW-8	2	4.92	15.05	5.0-15.0	258.84	253.92

Screened intervals are approximated. Screened interval in wells is lower than the measured total depth due to silting in the bottom of wells

The measurement point for the above three wells is the north side of the top of casing.

Depth to water and total depth measurements taken by Tait Environmental Management, Inc. personnel on August 11, 2005.

Total depth and depth to water measurements taken by Tait Environmental Management from designated measurement point.

groundwater elevation = Measurement Point Elevation - Depth to Water.

TOC = Top of Casing

bgs = Below Ground Surface

MSL = Mean Sea Level

Table 2
Historical Groundwater Gauging Data
Mission Valley Rock Company
Sunol, California

Well	Top of Casing Elevation (Feet)	Date	Depth to Water (feet below TOC)	Groundwater Elevation (feet MSL)	LPH Thickness (feet)
MW-1	256.51	Jun-98	1.32	255.19	ND
		Jan-99	2.28	254.23	ND
		Mar-99	1.88	254.63	ND
		Jun-99	3.35	253.16	ND
		Sep-99	3.66	252.85	ND
		Dec-99	2.94	253.57	ND
		Mar-00	2.72	253.79	Odor
		Jun-00	4.01	252.50	Slight Odor
		Sep-00	5.11	251.40	Slight Odor
		Dec-00	4.95	251.56	ND
		Mar-01	2.28	254.23	ND
		Jun-01	3.60	252.91	ND
		Sep-01	6.50	250.01	ND
		Dec-01	1.29	255.22	ND
		Mar-02	2.91	253.60	ND
		Jun-02	3.95	252.56	ND
		Sep-02	5.18	251.33	ND
	Dec-02	3.90	252.61	ND	
	Mar-03	1.40	255.11	ND	
	Jun-03	2.65	253.86	ND	
	Sep-03	4.67	251.84	ND	
	Dec-03	4.60	251.91	ND	
	258.68	Jan-05	3.41	255.27	ND
May-05		1.20	257.48		
Aug-05		4.52	254.16		
MW-2	256.7	Jun-98	1.72	254.98	0.005
		Jan-99	2.69	254.01	4.00
		Mar-99	2.50	254.20	ND
		Jun-99	4.00	252.70	Sheen
		Sep-99	4.54	252.16	0.50
		Dec-99	3.85	252.85	0.13
		Mar-00	3.20	253.50	0.03
		Jun-00	4.62	252.08	0.02
		Sep-00	5.95	250.75	>0.01
		Dec-00	5.65	251.05	0.07
		Mar-01	3.21	253.49	0.10
		Jun-01	3.31	253.39	0.06
		Sep-01	7.08	249.62	0.34
		Dec-01	2.18	254.52	0.26
		Mar-02	3.40	253.30	0.90
		Jun-02	4.35	252.35	0.08
		Sep-02	5.54	251.16	ND
		Dec-02	4.30	252.40	ND
		Mar-03	1.78	254.92	ND
		Jun-03	3.10	253.60	ND
		Sep-03	5.02	251.68	ND
		Dec-03	NM	NM	NM
				Abandoned	
MW-2S	258.84	1/17/05	4.25	254.59	ND
		5/4/05	1.98	256.86	
		8/12/05	5.46	253.38	
MW-2M	258.99	1/17/05	4.68	254.16	ND
		5/4/05	2.32	256.52	
		8/12/05	5.77	253.07	
MW-2D	258.91	1/17/05	4.75	254.09	
		5/4/05	2.38	256.46	
		8/12/05	5.90	252.94	

Table 2
Historical Groundwater Gauging Data
 Mission Valley Rock Company
 Sunol, California

Well	Top of Casing Elevation (Feet)	Date	Depth to Water (feet below TOC)	Groundwater Elevation (feet MSL)	LPH Thickness (feet)
MW-3	256.72	Jun-98	2.66	254.06	ND
		Jan-99	4.47	252.25	Slight Odor
		Mar-99	3.96	252.76	Sheen
		Jun-99	5.54	251.18	ND
		Sep-99	6.18	250.54	Sheen
		Dec-99	5.52	251.20	Odor
		Mar-00	4.61	252.11	Odor
		Jun-00	6.35	250.37	Very Slight Odor
		Sep-00	7.30	249.42	Very Slight Odor
		Dec-00	7.29	249.43	ND
		Mar-01	4.73	251.99	ND
		Jun-01	NM	NM	NM
		Sep-01	7.89	248.83	ND
	Dec-01	3.77	252.95	ND	
	Mar-02	5.12	251.60	ND	
	Jun-02	6.52	250.20	ND	
	Sep-02	7.28	249.44	ND	
	Dec-02	6.40	250.32	ND	
	Mar-03	4.01	252.71	ND	
	Jun-03	5.13	251.59	ND	
	Sep-03	5.13	251.59	ND	
Dec-03	7.2	249.52	ND		
259.08	Jan-05	5.81	253.27	ND	
	May-05	3.50	255.58		
	Aug-05	6.01	253.07		
MW-4S	259.14	1/17/05	4.62	254.52	ND
		5/4/05	3.73	255.41	
		8/12/05	3.45	255.69	
MW-4D	259.22	1/17/05	5.96	253.26	ND
		5/4/05	3.93	255.29	
		8/12/05	5.60	253.62	
MW-5S	259.43	1/17/05	4.57	254.86	ND
		5/4/05	2.50	256.93	
		8/12/05	5.30	254.13	
MW-5D	259.40	1/17/05	5.15	254.25	ND
		5/4/05	2.75	256.65	
		8/12/05	5.60	253.80	
MW-6S	258.75	1/17/05	4.30	254.45	ND
		5/4/05	1.96	256.79	
		8/12/05	5.17	253.58	
MW-6D	259.27	1/17/05	5.17	254.10	ND
		5/4/05	2.80	256.47	
		8/12/05	6.30	252.97	
MW-7S	258.82	1/17/05	3.42	255.40	ND
		5/4/05	1.44	257.38	
		8/12/05	4.80	254.02	
MW-7D	258.07	1/17/05	5.50	252.57	ND
		5/4/05	1.45	256.62	
		8/12/05	4.70	253.37	
MW-8	258.84	1/17/05	3.45	255.39	ND
		5/4/05	1.25	257.59	
		8/12/05	4.92	253.92	

Depth to water and liquid phase hydrocarbon (LPH) thickness reported in feet below measurement point.

Groundwater elevations reported in feet above mean sea level (msl).

Adjusted groundwater elevation = Measurement Point Elevation - Depth to Water + (LPH Thickness x 0.75)

NM = Not Measured

ND = Not Detected

TOC = Top of Casing

MSL = Mean Sea Level

LPH = Liquid-Phase Hydrocarbon

Table 3
Groundwater Analytical Results
Third Quarter 2005
Mission Valley Rock Company
Sunol, California

Well	Date	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)
MW-1	8/12/2005	ND<50	410	ND<0.50	ND<0.50	2.4	ND<0.50	ND<1.0	ND<10
MW-2S	8/12/2005	6.1	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	77	ND<10
MW-2M	8/12/2005	ND<50	460	ND<0.50	ND<0.50	2.5	1.2	56	ND<10
MW-2D	8/12/2005	ND<50	ND<50	ND<0.50	ND<0.50	2.8	1.1	51	ND<10
MW-3	8/11/2005	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110	ND<10
MW-4S	8/12/2005	ND<50	ND<50	ND<0.50	ND<0.50	2.2	5.8	ND<1.0	ND<10
MW-4D	8/12/2005	ND<50	410	ND<0.50	2.2	10	25.5	ND<1.0	ND<10
MW-5S	8/11/2005	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.8	ND<10
MW-5D	8/11/2005	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.4	ND<10
MW-6S	8/12/2005	1.3	1100	ND<0.50	ND<0.50	ND<0.50	ND<0.50	410	ND<10
MW-6D	8/12/2005	ND<50	480	2.0	ND<0.50	ND<0.50	ND<0.50	270	ND<10
MW-7S	8/12/2005	ND<50	660	ND<0.50	ND<0.50	5.5	ND<0.50	ND<1.0	ND<10
MW-7D	8/12/2005	37	83000	550	2200	4400	10600	ND<10	ND<100
MW-8	8/12/2005	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	160

Notes:

Analyses for Total Petroleum Hydrocarbons as Gasoline and Diesel (TPHg and TPHd, respectively) were performed using EPA Method No. 8015M.

Analyses for benzene, toluene, ethylbenzene, total xylenes, methyl-tert-butyl ether (MTBE), and Tert-butyl alcohol (TBA) were performed using EPA Method No. 8260B.

Tert-amyl methyl ether (TAME), Di-isopropyl ether (DIPE), and Ethyl tert-butyl ether (ETBE) were not detected above laboratory detection limits.

Total xylene concentrations were determined by adding m,p-xylene and o-xylene from laboratory report.

NM = Not Measured

mg/L = Milligrams per Liter

ug/L = Micrograms per Liter

ND = Non-detect at or above corresponding laboratory reporting limit.

Monitoring wells MW-3, MW-5S, and MW-5D were sampled on August 11, 2005

Table 4
Historical Groundwater Analytical Results
 Mission Valley Rock Company
 Sunol, California

Well	Date	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)
MW-1	Jun-98	0.1	3,100	19	2.3	91	48	110
	Oct-98	0.1	2,300	3.1	4.2	5.0	15	ND<0.50
	Dec-98	350	ND<50	12	7.5	20	6.2	ND<5.0
	Mar-99	190	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-99	210	1,800	1.2	0.9	1.5	4.6	ND<0.5
	Sep-99	62	180	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5
	Dec-99	290	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Mar-00	86	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-00	70	450	2.1	ND<0.5	2.1	1.4	7.6
	Sep-00	ND<50	850	5.4	ND<0.50	9.4	2.6	9.8
	Dec-00	ND<1,000	370	5.3	ND<1.0	2.7	ND<3.0	55
	Mar-01	ND<1,000	700	ND<1.0	ND<1.0	1.4	ND<1.0	ND<1.0
	Jun-01	ND<1,000	170	ND<1.0	ND<1.0	1.2	ND<1.0	ND<1.0
	Sep-01	ND<1,000	730	1.4	ND<1.0	7.6	1.2	ND<1.0
	Dec-01	1000	500	15	ND<1.0	27	5.5	ND<1.0
	Mar-02	12000	29000	50	ND<25	960	290	ND<25
	Jun-02	ND<1,000	1400	3.5	ND<1.0	42	7.9	ND<1.0
	Sep-02	1400	760	ND<1.0	ND<1.0	4.3	1.1	ND<1.0
	Dec-02	ND<1,000	1600	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	Mar-03	ND<1,000	620	1.2	ND<1.0	12	ND<1.0	ND<1.0
Jun-03	ND<1,000	0.61	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Sep-03	ND<1,000	1.2	ND<1.0	ND<1.0	6.4	ND<1.0	ND<1.0	
Dec-03	ND<1,000	0.49	ND<1.0	ND<1.0	3.0	ND<1.0	ND<1.0	
1/17/05	ND<50	63	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
5/4/05	ND<50	1200	ND<0.5	ND<0.5	8.5	1.2	ND<1.0	
8/12/05	ND<50	410	ND<0.5	ND<0.5	2.4	ND<0.5	ND<1.0	
MW-2	Jun-98	12,000	2,500	0.68	ND<0.50	1.2	0.57	14
	Oct-98	4,300	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	Dec-98	38,000	ND<5,000	ND<50	ND<50	51	190	ND<500
	Mar-99	580	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-99	4,500	24,000	38	27	41	98	ND<0.5
	Sep-99	24,000	1,400	ND<0.50	ND<0.50	ND<0.50	ND<0.50	27
	Dec-99	2,300	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Mar-00	620	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-00	1,700	270	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17
	Sep-00	5,800	130	ND<0.50	ND<0.50	ND<0.50	0.94	12
	Dec-00	19,000	1700	ND<50	ND<50	ND<50	ND<150	ND<250
	Mar-01	610000	3300	ND<1.0	ND<1.0	ND<1.0	ND<1.0	9.0
	Jun-01	8800	1800	ND<1.0	ND<1.0	ND<1.0	ND<1.0	6.7
	Sep-01	530000	7000	ND<50	ND<50	ND<50	ND<50	ND<50
	Dec-01	27000	310	ND<1.0	ND<1.0	ND<1.0	ND<1.0	62
	Mar-02	65000	130	ND<1.0	ND<1.0	ND<1.0	ND<1.0	30
	Jun-02	130000	460	ND<1.0	ND<1.0	ND<1.0	ND<1.0	24
	Sep-02	480000	290	ND<1.0	ND<1.0	ND<1.0	ND<1.0	16
	Dec-02	61000	1800	ND<1.0	ND<1.0	ND<1.0	ND<1.0	10
	Mar-03	5000	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	14
Jun-03	8.1	360	ND<1.0	ND<1.0	ND<1.0	ND<1.0	20	
Sep-03	85	12	ND<1.0	ND<1.0	ND<1.0	ND<1.0	15	
Dec-03	NM	NM	NM	NM	NM	NM	NM	
1/17/05								Abandoned
MW-2S	1/17/05	1100	730	ND<0.50	ND<0.50	1.0	3.5	50
	5/4/05	8200	190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	44
	8/12/05	6100	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	77
MW-2M	1/17/05	4100	3300	6.5	1.7	89	82.2	38
	5/4/05	ND<50	610	ND<0.5	ND<0.5	16	10.6	32
	8/12/05	ND<50	460	ND<0.5	ND<0.5	2.5	1.2	56
MW-2D	1/17/05	1800	1000	6.5	ND<0.50	80	71	62
	5/4/05	ND<50	250	ND<0.5	ND<0.5	4.6	1.6	72
	8/12/05	ND<50	ND<50	ND<0.5	ND<0.5	2.8	1.1	51
MW-3	Jun-98	12,000	300	0.80	ND<0.50	ND<0.50	ND<0.50	150
	Oct-98	6400	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	Dec-98	5,600	ND<100	1.6	1.4	ND<1.0	ND<1.0	110
	Mar-99	150	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-99	620	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Sep-99	1,500	230		ND<0.50	ND<0.50	ND<0.50	89

Table 4
Historical Groundwater Analytical Results
 Mission Valley Rock Company
 Sunol, California

Well	Date	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)
	Dec-99	58	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Mar-00	94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-00	240	170	ND<0.5	0.52	ND<0.5	ND<0.5	100
	Sep-00	850	170	0.81	ND<0.50	ND<0.50	ND<0.50	68
	Dec-00	1600	230	ND<1.0	ND<1.0	ND<1.0	ND<3.0	80
	Mar-01	1100	140	ND<1.0	ND<1.0	ND<1.0	ND<1.0	83
	Jun-01	NS	NS	NS	NS	NS	NS	NS
	Sep-01	3800	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	45
	Dec-01	3100	340	1.4	1.1	10	3.8	45
	Mar-02	1500	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	50
	Jun-02	ND<1000	160	ND<1.0	ND<1.0	ND<1.0	ND<1.0	36
	Sep-02	ND<1000	ND<1000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	43
	Dec-02	ND<1000	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	41
	Mar-03	ND<1000	ND<100	ND<2.5	ND<2.5	ND<2.5	ND<2.5	92
	Jun-03	1200.0	ND<100	ND<2.0	ND<2.0	ND<2.0	ND<2.0	93
	Sep-03	ND<1000	ND<100	ND<2.0	ND<2.0	ND<2.0	ND<2.0	65
	Dec-03	5700	190	ND<2.0	ND<2.0	ND<2.0	ND<2.0	56
	1/17/05	ND<50	590	ND<0.50	ND<0.50	ND<0.50	ND<0.50	47
	5/4/05	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	190
	8/11/05	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	110
MW-4S	1/17/05	ND<50	65	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	5/4/05	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0
	8/12/05	ND<50	ND<50	ND<0.5	ND<0.5	2.2	5.8	ND<1.0
MW-4D	1/17/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	5/4/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	8/12/05	ND<50	410	ND<0.5	2.20	10.0	25.5	ND<1.0
MW-5S	1/17/05	ND<50	ND<50	ND<0.50	4.5	ND<0.50	ND<0.50	ND<1.0
	5/4/05	ND<50	ND<50	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0
	8/11/05	ND<50	ND<50	ND<0.50	ND<0.5	ND<0.50	ND<0.50	6
MW-5D	1/17/05	ND<50	210	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	5/4/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10
	8/11/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6
MW-6S	1/17/05	2800	1600	6.1	ND<0.50	3.6	2.3	160
	5/4/05	ND<50	750	ND<0.5	ND<0.5	3.0	ND<0.5	160
	8/12/05	1300	1100	ND<0.50	ND<0.50	ND<0.50	ND<0.50	410
MW-6D	1/17/05	2100	1200	10	ND<0.50	1.6	2.2	180
	5/4/05	ND<50	360	2	ND<0.5	ND<0.5	ND<0.5	360
	8/12/05	ND<50	480	2	ND<0.5	ND<0.5	ND<0.5	270
MW-7S	1/17/05	ND<50	12000	10	89	590	1670	ND<1.0
	5/4/05	520	1600	ND<0.5	ND<0.5	31	18.4	1600
	8/12/05	ND<50	660	ND<0.5	ND<0.5	5.5	ND<0.5	ND<1.0
MW-7D	1/17/05	ND<50	23000	350	1000	1800	5200	ND<1.0
	5/4/05							
	8/12/05	37	83000	550	2200	4400	10600	ND<10
MW-8	1/17/05	ND<50	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	5/4/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	8/12/05	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0

Concentrations reported in micrograms per Liter (ug/L).

MTBE = Methyl-tert-Butyl Ether

Tert-butyl alcohol (TBA) was detected in MW-8 at a concentration of 160 micrograms per liter (ug/L)

ND = Not Detected at or above corresponding reporting limit

NS = Not Sampled

TPHd = Total Petroleum Hydrocarbons as Diesel

TPHg = Total Petroleum Hydrocarbons as Gasoline

NM: Not Measured

APPENDIX A
SAMPLING DATA SHEETS

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

 Page of

Project Name: <i>Mission Valley Rock</i>					Date: <i>8-12-05</i>						
Project No.: <i>EM 5009B</i>					Prepared By: <i>SR</i>						
Well Identification: <i>MW-1</i>					Weather: <i>SUNNY</i>						
Measurement Point Description: <i>T&C NORTH</i>					Pump Intake: <i>14 FT</i>			Screen: <i>—</i>			
Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) <small>(A - B = C)</small>	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) <small>(C x D = E)</small>	Three (3) Casing Volumes (gallons) <small>(E x 3)</small>	1/2 Casing Volume (E/2)	Above Screen Volume <small>(Top screen - DTW) x D</small>	Screen Volume <small>(Screen length x D)</small>	1/2 screen Volume	
—	<i>4.52</i>	<i>17.50</i>	<i>12.98</i>	—	<i>2.07</i>	<i>6.23</i>	—	—	—	—	
Well Diameter (in)		Gallons/Foot			Field Equipment: <i>Solinst, Horiba Generator</i>						
		0.75	<i>2</i>	4	6	Purge Method: <i>WALTERA Pump</i>					
D Gallons per foot of casing		0.02	<i>0.16</i>	0.65	1.47	Well Condition: <i>OK</i>					
Time	<u>Casing/Screen</u>	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (<u>51m</u>)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
<i>12:29</i>	<i>1.0</i>	<i>2.0</i>	<i>.5</i>	<i>N/A</i>	<i>7.56</i>	<i>23.23</i>	<i>320</i>	<i>.257</i>	<i>2.26</i>	<i>51</i>	<i>Cloudy</i>
<i>12:33</i>	<i>2.0</i>	<i>4.0</i>	<i>.5</i>	<i>N/A</i>	<i>7.50</i>	<i>22.49</i>	<i>235</i>	<i>.255</i>	<i>5.02</i>	<i>86</i>	<i>" "</i>
<i>12:37</i>	<i>3.0</i>	<i>6.0</i>	<i>.5</i>	<i>N/A</i>	<i>7.36</i>	<i>21.85</i>	<i>258</i>	<i>.254</i>	<i>3.96</i>	<i>86</i>	<i>" "</i>
Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth <small>(C x .80) - B</small>	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification			
<i>12:25</i>	<i>12:37</i>	<i>.5</i>	<i>6.0</i>	<i>3.0</i>	<i>7.11</i>	<i>5.11</i>	<i>12:45</i>	<i>MW-1</i>			
Notes:											

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: <i>MISSION VALLEY ROCK</i>	Date: <i>8/12/05</i>
Project No.: <i>EM 5009B</i>	Prepared By: <i>SR</i>
Well Identification: <i>MW-25</i>	Weather: <i>Sunny</i>
Measurement Point Description: <i>TOC NORTH</i>	Pump Intake: <i>7 FT</i>
Screen: <i>—</i>	

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) <small>(A - B = C)</small>	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) <small>(C x D = E)</small>	Three (3) Casing Volumes (gallons) <small>(E x 3)</small>	1/2 Casing Volume (E/2)	Above Screen Volume <small>(Top screen - DTW) x D</small>	Screen Volume <small>(Screen length x D)</small>	1/2 screen Volume
---	<i>5.46</i>	<i>8.44</i>	<i>2.98</i>	---	<i>47</i>	<i>143</i>	---	---	---	---

Well Diameter (in)	Gallons/Foot	Field Equipment:	<i>Solinst, Horiba, Generator</i>
	0.75 <i>2</i> 4 6	Purge Method:	<i>WALTERRA Pump</i>
^D Gallons per foot of casing	0.02 <i>0.16</i> 0.65 1.47	Well Condition:	<i>OK</i>

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (<i>5/m</i>)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
<i>08:52</i>	<i>1.0</i>	<i>.5</i>		<i>N/A</i>	<i>6.90</i>	<i>26.30</i>	<i>7999</i>	<i>.285</i>	<i>3.91</i>	<i>56</i>	<i>BLACK</i>
<i>09:00</i>	<i>2.0</i>	<i>1.0</i>		<i>N/A</i>	<i>6.72</i>	<i>24.24</i>	<i>7999</i>	<i>.268</i>	<i>3.36</i>	<i>24</i>	<i>" "</i>
<i>09:07</i>	<i>3.0</i>	<i>1.5</i>		<i>N/A</i>	<i>6.86</i>	<i>23.54</i>	<i>7999</i>	<i>94.9</i>	<i>6.80</i>	<i>61</i>	<i>" "</i>

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
<i>08:45</i>	<i>09:07</i>		<i>1.5</i>	<i>3.0</i>	<i>6.06</i>	<i>6.01</i>	<i>09:12</i>	<i>MW-25</i>

Notes:
2.38

ft-bmp = feet below measuring point

20 29.0
2m 19.02

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: MISSION Valley Rock					Date: 8/12/05					
Project No.: EW MW-2 M					Prepared By: SR					
Well Identification: 5009B					Weather: Sunny					
Measurement Point Description: TOC North					Pump Intake: 12 FT			Screen: ---		

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) <small>(A - B = C)</small>	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) <small>(C x D = E)</small>	Three (3) Casing Volumes (gallons) <small>(E x 3)</small>	1/2 Casing Volume (E/2)	Above Screen Volume <small>(Top screen - DTW) x D</small>	Screen Volume <small>(Screen length x D)</small>	1/2 screen Volume
---	5.77	18.75	12.98	---	2.07	6.23	---	---	---	---

Well Diameter (in)	0.75	2	4	6	Field Equipment: Solinst, Horiba
Gallons per foot of casing	0.02	0.16	0.65	1.47	Purge Method: WALTERA PUMP
					Well Condition: OK

Time	Casing Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
09:51	1.0	2.0	.2	N/A	6.84	23.52	601	1228	7.73	136	Cloudy
10:01	2.0	4.0	.2	N/A	7.03	22.73	790	1223	7.11	100	" "
10:11	3.0	6.0	.2	N/A	7.15	23.19	558	1228	4.23	107	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
09:41	10:11	.2	6.0	3.0	8.36	6.06	10:20	MW-2 M

Notes:

ft-bmp = feet below measuring point

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: <u>Mission Valley Rock</u>					Date: <u>8/12/05</u>					
Project No.: <u>EM 5009 B</u>					Prepared By: <u>SR</u>					
Well Identification: <u>10-20 MW-20</u>					Weather: <u>SUNNY</u>					
Measurement Point Description: <u>TOC NORTH</u>					Pump Intake: <u>15 FT</u>			Screen: <u> </u>		

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) <small>(A - B = C)</small>	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) <small>(C x D = E)</small>	Three (3) Casing Volumes (gallons) <small>(E x 3)</small>	1/2 Casing Volume (E/2)	Above Screen Volume <small>(Top screen - DTW) x D</small>	Screen Volume <small>(Screen length x D)</small>	1/2 screen Volume
---	5.90	29.55 <u>North</u>	23.65 <u>4.90</u>	---	3.76	11.35 <u>41.07</u>	---	---	---	---

Well Diameter (in)	Gallons/Foot				Field Equipment: <u>Solinst, Horiba Generator</u>	
	0.75	2	4	6	Purge Method: <u>WALTERIA PUMP</u>	
^D Gallons per foot of casing	0.02	0.16	0.65	1.47	Well Condition: <u>OK</u>	

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
09:21	1.0	4.00	.66	NIR	7.21	22.94	49.0	.217	4.88	119	Clear
09:26	2.0	8.00	.8	NIR	6.99	22.03	4.2	.215	4.94	60	" "
09:31	3.0	12.00	.8	NIR	6.85	21.44	0.8	.226	4.51	70	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth <small>(C x .80) - B</small>	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
09:15	09:31	.75	12.00	3.0	10.63	5.95	09:35	MW-2 M

Notes: 18.92

ft-bmp = feet below measuring point

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: <u>MISSION VALLEY ROCK</u>	Date: <u>8-11-05</u>
Project No.: <u>EW 5009 B</u>	Prepared By: <u>SR</u>
Well Identification: <u>MW-3</u>	Weather: <u>SUNNY</u>
Measurement Point Description: <u>TOC NORTH</u>	Pump Intake: <u>WALTERRA Pump 10 FT</u> Screen: <u>N/A</u>

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A - B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C x D = E)	Three (3) Casing Volumes (gallons) (E x 3)	1/2 Casing Volume (E/2)	Above Screen Volume (Top screen - DTW) x D	Screen Volume (Screen length x D)	1/2 screen Volume
---	<u>6.01</u>	<u>15.04</u>	<u>9.03</u>	<u>N/A</u>	<u>1.44</u>	<u>4.33</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

	Gallons/Foot	0.75	<u>2</u>	4	6	Field Equipment: <u>Solinst, Horiba</u>
Well Diameter (in)						Purge Method: <u>WALTERRA Pump</u>
D Gallons per foot of casing	0.02	<u>0.16</u>	0.65	1.47		Well Condition: <u>OK</u>

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
<u>12:35</u>	<u>1.0</u>	<u>1.5</u>	<u>.1</u>	<u>N/A</u>	<u>6.04</u>	<u>25.44</u>	<u>7999</u>	<u>.6</u>	<u>8.02</u>	<u>295</u>	<u>GREY</u>
<u>12:51</u>	<u>2.0</u>	<u>3.0</u>	<u>.1</u>	<u>N/A</u>	<u>6.00</u>	<u>25.48</u>	<u>7999</u>	<u>.6</u>	<u>8.00</u>	<u>293</u>	<u>" "</u>
<u>13:06</u>	<u>3.0</u>	<u>4.5</u>	<u>.1</u>	<u>N/A</u>	<u>6.48</u>	<u>26.94</u>	<u>7999</u>	<u>.264</u>	<u>0.00</u>	<u>145</u>	<u>" "</u>

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
<u>12:20</u>	<u>13:06</u>	<u>.1</u>	<u>4.5</u>	<u>4.5</u>	<u>7.82</u>	<u>6.20</u>	<u>13:20</u>	<u>MW-3</u>

Notes:
1.22



Well Development Field Data Sheet

Project Name: <u>Mission Valley Rock</u>						Date: <u>8/12/05</u>						
Project No.: <u>EM 5009A</u>						Prepared By: <u>JR</u>						
Well Identification: <u>MW-45</u>						Weather: <u>SUNNY</u>						
Measurement Point Description: <u>TOC NORTH</u>												
Depth to LNAPL (ft-bmp)		Depth to Static Water Level (ft-bmp)		Well Total Depth (ft-bmp)		Water Column Height (ft)		LNAPL Thickness (ft)		One (1) Casing Volume (gallons)		2.28 ³ Casing Volumes (gallons)
N/A		3.45		8.22		4.77		N/A		.76		2.28
Well Diameter (in)			Gallons/Foot				Field Equipment: <u>Horiba, Solonist</u>					
			0.75	2	4	6	Purge Method: <u>WALTERRA Pump</u>					
0.75	2	4	6	0.02	0.16	0.65	1.47	Well Condition: <u>OK</u>				
Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations	
17:00	1.0	.75	.15	N/A	7.81	26.83	7999	.90	5.50	107	GREY	
17:05	2.0	1.50	.15	N/A	7.90	26.54	7999	.630	8.26	78	" "	
17:10	3.0	2.25	.15	N/A	7.69	26.79	7999	.999	8.59	68	" "	
Notes: <u>80% Recovery 4.40</u>												
Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	Sample Level <u>3.55 @ Sample time 17:20</u>							
16:55	17:10	.15	2.25	3.0								

ft-bmp = feet below measuring point
 LNAPL = light non-aqueous phase liquid
 M:\TEM2\FORMS\Field Forms\Well Development Field Data Sheet.DOC



TAIT Environmental Management, Inc

Well Development Field Data Sheet

Project Name: Mission Valley Rock					Date: 8/12/05						
Project No.: Em 5009A					Prepared By: SR						
Well Identification: MW-40					Weather: SUNNY						
Measurement Point Description: TOC NORTH											
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	3 Foot Casing Volumes (gallons)					
N/D	5.60	23.20	17.6	N/D	2.81	8.44					
Well Diameter (in)		Gallons/Foot			Field Equipment: Horiba, Solinst						
		0.75	2	4	6	Purge Method: WALTERA PUMP					
0.75	2	4	6	0.02	0.16	0.65	1.47	Well Condition: OK			
Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
16:05	1.0	3.0		N/R	7.70	24.64	7999	.897	5.25	153	GREY
16:20	2.0	6.0		N/R	7.67	22.35	294	.962	7.05	98	CLOUDY
16:35	3.0	9.0		N/R	7.75	22.11	154	.977	6.55	99	CLOUDY
Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	Notes: 80% Recovery 9.12						
15:50	16:35	.2	9.0	3.0	Sample Level 5.62 @ Sample time 16:40						

ft-bmp = feet below measuring point

LNAPL = light non-aqueous phase liquid

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: Mission Valley Rock	Date: 8-11-05
Project No.: EM 5009 B	Prepared By: SR.
Well Identification: MW-55	Weather: Sunny
Measurement Point Description: TOC NORTH	Pump Intake: 7 ft
Screen: —	

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A - B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C x D = E)	Three (3) Casing Volumes (gallons) (E x 3)	1/2 Casing Volume (E/2)	Above Screen Volume (Top screen - DTW) x D	Screen Volume (Screen length x D)	1/2 screen Volume
N/A	5.30	8.00	2.70	N/A	.43	1.29	—	—	—	—

Well Diameter (in)	0.75	2	4	6	Field Equipment: Solinst, Horiba, Generator
D Gallons per foot of casing	0.02	0.16	0.65	1.47	Purge Method: WALTERRA Pump
					Well Condition: OK

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µ/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
15:15	1.0	.5	.03	N/A	7.38	25.96	7999	.257	5.92	1.7	GREY
15:30	2.0	1.0	.03	N/A	7.37	25.87	79.3	0.3	4.11	149	CLEAR
15:45	3.0	1.5	.03	N/A	7.34	25.55	69.2	0.3	4.88	101	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
15:00	15:45	.03	1.5	3.0	5.84	5.70	15:55	MW-55

Notes:
2.16

ft-bmp = feet below measuring point

9453

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: MISSION VALLEY ROCK	Date: 8/11/05
Project No.: EM 5009 B	Prepared By: SR
Well Identification: MW-5 D	Weather: SUNNY
Measurement Point Description: T&C NORTH	Pump Intake: 18 FT
Screen: N/A	

Depth to L ₁ (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A - B = C)	L ₂ APL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C x D = E)	Three (3) Casing Volumes (gallons) (E x 3)	1/2 Casing Volume (E / 2)	Above Screen Volume (Top screen - DTW) x D	Screen Volume (Screen length x D)	1/2 screen Volume
---	5.60	22.66	17.06	---	2.72	8.18	-	-	-	-

	Gallons/Foot	Field Equipment: Solinst, Horiba, Generator
Well Diameter (in)	0.75 2 4 6	Purge Method: WALTERRA Pump
^D Gallons per foot of casing	0.02 0.16 0.65 1.47	Well Condition: OK

Time	Casing Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
13:58	1.0	3.0	.16	N/A	7.46	22.45	458.0	.304	7.78	99	Cloudy
14:20	2.0	6.0	.14	N/A	7.10	22.59	258.0	.301	3.75	3	" "
14:40	3.0	9.0	.15	N/A	7.05	21.61	208.0	.303	3.69	-9	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
13:40	14:40	.15	9.0	3.0	9.01	5.80	14:50	MW-5 D

Notes:
13.64

ft-bmp = feet below measuring point

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: <u>Mission Valley Rock</u>					Date: <u>8-12-05</u>					
Project No.: <u>EM 5029B</u>					Prepared By: <u>SR</u>					
Well Identification: <u>MW-6S</u>					Weather: <u>SUNNY</u>					
Measurement Point Description: <u>TOC NORTH</u>					Pump Intake: <u>10 FT</u>			Screen: <u> </u>		

Depth to LNAFL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A - B = C)	LNAFL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C x D = E)	Three (3) Casing Volumes (gallons) (E x 3)	1/2 Casing Volume (E/2)	Above Screen Volume (Top screen - DTW) x D	Screen Volume (Screen length x D)	1/2 screen Volume
---	5.17	14.78	9.61	---	1.53	4.61	---	---	---	---

Well Diameter (in)	0.75	2	4	6	Field Equipment: <u>Solinst, Horiba GENERATOR</u>
^D Gallons per foot of casing	0.02	0.16	0.65	1.47	Purge Method: <u>WALTERA Pump</u>
Well Condition: <u>OK</u>					

Time	Casing Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
11:32	1.0	1.5	.18	N/A	7.70	27.01	7999	.234	5.19	95	GREY
11:40	2.0	3.0	.18	N/A	7.25	26.02	7999	.247	4.24	87	GREY
11:49	3.0	4.5	.16	N/A	7.08	25.55	7999	.253	.19	84	GREY

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
11:34	11:49	.17	4.5	3.0	7.09	6.00	11:55	MW-6S

Notes:

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: <u>Mission Valley Rock</u>					Date: <u>8-12-05</u>					
Project No.: <u>EM 5009B</u>					Prepared By: <u>SR</u>					
Well Identification: <u>MW-6D</u>					Weather: <u>Sunny</u>					
Measurement Point Description: <u>TOC NORTH</u>					Pump Intake: <u>24 FT</u>			Screen: <u>—</u>		

Depth to L1/L2 (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A - B = C)	L1/L2 Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C x D = E)	Three (3) Casing Volumes (gallons) (E x 3)	1/2 Casing Volume (E/2)	Above Screen Volume (Top screen - DTW) x D	Screen Volume (Screen length x D)	1/2 screen Volume
---	6.30	2890	27.6	---	3.61	10.84	---	---	---	---

	Gallons/Foot			Field Equipment: <u>Solinst, Horiba Generator</u>							
Well Diameter (in)	0.75	2	4	6	Purge Method: <u>WALTERA Pump</u>						
D Gallons per foot of casing	0.02	0.16	0.65	1.47	Well Condition: <u>OK</u>						

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (<u>51m</u>)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
10:52	1.0	4.0	.57	N/A	7.42	27.37	7999	.219	8.67	76	BLACK
11:00	2.0	8.0	.50	N/A	7.01	22.02	7999	.213	0.00	-4	" "
11:08	3.0	12.0	.50	N/A	6.91	21.40	7999	.211	1.83	-43	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:45	11:08	.52	12.0	3.0	10.82	6.70	11:15	MW-6D

Notes:
 3-16-00
 1-13-00
 1-15-30
 1-17-00



Well Development Field Data Sheet

Project Name: <i>Mission Valley Rock</i>					Date: <i>8/12/05</i>						
Project No.: <i>EM5009A</i>					Prepared By: <i>SR</i>						
Well Identification: <i>MW 75</i>					Weather: <i>SUNNY</i>						
Measurement Point Description: <i>TOC North</i>											
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	2 ³ Casing Volumes (gallons)					
<i>N/D</i>	<i>4.80</i>	<i>8.30</i>	<i>3.5</i>	<i>N/A</i>	<i>.56</i>	<i>1.68</i>					
Well Diameter (in)		Gallons/Foot			Field Equipment: <i>Solinist Horiba</i>						
		0.75	<u>2</u>	4	6	Purge Method: <i>Walteria Pump</i>					
0.75	<u>2</u>	4	6	0.02	<u>0.16</u>	0.65	1.47	Well Condition: <i>DK</i>			
Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (g/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
<i>14:05</i>	<i>1.0</i>	<i>.5</i>		<i>N/R</i>	<i>7.44</i>	<i>26.67</i>	<i>7999</i>	<i>.180</i>	<i>6.04</i>	<i>158</i>	<i>GREY</i>
<i>14:15</i>	<i>2.0</i>	<i>1.0</i>		<i>N/R</i>	<i>6.90</i>	<i>25.87</i>	<i>7999</i>	<i>.173</i>	<i>7.55</i>	<i>83</i>	<i>" "</i>
<i>14:25</i>	<i>3.0</i>	<i>1.5</i>		<i>N/R</i>	<i>7.38</i>	<i>25.04</i>	<i>833</i>	<i>.173</i>	<i>6.74</i>	<i>139</i>	<i>" "</i>
Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	Notes: <i>80% = 5.5 Recovery</i>						
<i>13:55</i>	<i>14:25</i>	<i>.05</i>	<i>1.5</i>	<i>3.0</i>							

Sample Level 4.80 @ Sample time 14:30

ft-bmp = feet below measuring point
 LNAPL = light non-aqueous phase liquid
 M:\TEM2\Forms\Field Forms\Well Development Field Data Sheet.DOC



TAIT Environmental Management, Inc

Well Development Field Data Sheet

Project Name: <i>Mission Valley Rock</i>					Date: <i>8/12/05</i>						
Project No.: <i>EM5009A</i>					Prepared By: <i>SR</i>						
Well Identification: <i>MW-70</i>					Weather: <i>SUNNY</i>						
Measurement Point Description: <i>TOC NORTH</i>											
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	One (1) Casing 3 Volumes (gallons)					
<i>N/A</i>	<i>4.70</i>	<i>22.40</i>	<i>17.7</i>	<i>N/A</i>	<i>2.83</i>	<i>8.49</i>					
Well Diameter (in)		Gallons/Foot			Field Equipment: <i>Horiba, Solonist</i>						
		0.75	2	4	6	Purge Method: <i>Waltera Pump</i>					
0.75	2	4	6	0.02	0.16	0.65	1.47	Well Condition: <i>OK</i>			
Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
<i>14:55</i>	<i>1.0</i>	<i>3.0</i>		<i>N/A</i>	<i>7.93</i>	<i>24.16</i>	<i>7999</i>	<i>1.2</i>	<i>6.87</i>	<i>117</i>	<i>BLACK</i>
<i>15:10</i>	<i>2.0</i>	<i>6.0</i>		<i>N/A</i>	<i>7.33</i>	<i>20.83</i>	<i>7999</i>	<i>1.4</i>	<i>9.53</i>	<i>135</i>	<i>GREY</i>
<i>15:26</i>	<i>3.0</i>	<i>9.0</i>		<i>N/A</i>	<i>7.70</i>	<i>21.65</i>	<i>7999</i>	<i>.194 slm</i>	<i>6.80</i>	<i>137</i>	<i>GREY</i>
Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	Notes:						
<i>14:40</i>	<i>15:11</i>	<i>.2</i>	<i>9.0</i>	<i>3.0</i>	<i>80% Recovery 8.24</i> <i>Sample time 17:30</i>						

Strong Gasoline Smell from Well.

ft-bmp = feet below measuring point
 LNAPL = light non-aqueous phase liquid
 M:\TEM2\FORMS\Field Forms\Well Development Field Data Sheet.DOC



TAIT Environmental Management, Inc

Well Development Field Data Sheet

Project Name: Mission Valley Rock					Date: 8-12-05						
Project No.: EM5009A					Prepared By: SR						
Well Identification: MW-8					Weather: Sunny						
Measurement Point Description: TOC NORTH											
Depth to LNAPL (ft-bmp)		Depth to Static Water Level (ft-bmp)		Well Total Depth (ft-bmp)		Water Column Height (ft)		LNAPL Thickness (ft)		One (1) Casing Volume (gallons)	³ 4 (5) Casing Volumes (gallons)
N/A		4.92		15.10		10.18		N/A		1.62	4.88
Well Diameter (in)			Gallons/Foot				Field Equipment: Solinst, Horiba				
			0.75	2	4	6	Purge Method: Waltera Pump				
			0.02	0.16	0.65	1.47	Well Condition: OK				
Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
13:26	1.0	1.5		N/A	7.73	21.82	665	.156	6.50	143	Cloudy
13:32	2.0	3.0		N/A	7.75	21.24	540	.150	7.41	182	" "
13:38	3.0	4.5		N/A	7.49	20.67	492	.152	8.71	165	" "
Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	Notes:						
13:20	13:38	.25	4.5	3.0	80% Recovery 6.95						

Sample Level C Sample time
4.98 13:45

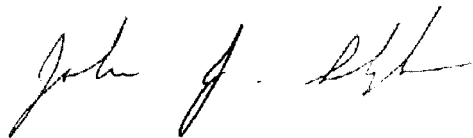
APPENDIX B
LABORATORY REPORT

19 August 2005

Greg Buchanan
Tait Environmental
701 N. Parkcenter Drive
Santa Ana, CA 92705
RE: Mission Valley Rock

Enclosed are the results of analyses for samples received by the laboratory on 08/15/05 14:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "John J. Shepler". The signature is written in a cursive style with a large initial "J" and a distinct "S".

John Shepler
Laboratory Director

Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8	T500937-01	Water	08/12/05 13:45	08/15/05 14:55
MW-75	T500937-02	Water	08/12/05 14:30	08/15/05 14:55
MW-7D	T500937-03	Water	08/12/05 17:30	08/15/05 14:55
MW-4D	T500937-04	Water	08/12/05 16:40	08/15/05 14:55
MW-4S	T500937-05	Water	08/12/05 17:20	08/15/05 14:55
MW-1	T500937-06	Water	08/12/05 12:45	08/15/05 14:55
MW-6S	T500937-07	Water	08/12/05 11:55	08/15/05 14:55
MW-6D	T500937-08	Water	08/12/05 11:15	08/15/05 14:55
MW-2M	T500937-09	Water	08/12/05 10:20	08/15/05 14:55
MW-2D	T500937-10	Water	08/12/05 09:35	08/15/05 14:55
MW-2S	T500937-11	Water	08/12/05 09:12	08/15/05 14:55
MW-5S	T500937-12	Water	08/11/05 15:55	08/15/05 14:55
MW-5D	T500937-13	Water	08/11/05 14:50	08/15/05 14:55
MW-3	T500937-14	Water	08/11/05 13:20	08/15/05 14:55

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-1
T500937-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	410	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
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<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	65-135		"	"	"	"	
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Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
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Toluene	ND	0.50	"	"	"	"	"	"	
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Ethylbenzene	2.4	0.50	"	"	"	"	"	"	
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m,p-Xylene	ND	1.0	"	"	"	"	"	"	
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o-Xylene	ND	0.50	"	"	"	"	"	"	
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Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
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Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
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Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
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Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
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Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
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<i>Surrogate: Toluene-d8</i>		99.5 %	87.6-115		"	"	"	"	
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<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	80-112		"	"	"	"	
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<i>Surrogate: Dibromofluoromethane</i>		101 %	78.6-122		"	"	"	"	
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SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-2S
T500937-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	120	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	6.1	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	D-02
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	77	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.2 %	87.6-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	80-112		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	78.6-122		"	"	"	"	

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John Shepler, Laboratory Director

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-2M
T500937-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015m									
C6-C12 (GRO)	460	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	65-135		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015									
Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	2.5	0.50	"	"	"	"	"	"	
m,p-Xylene	1.2	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	56	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.2 %	87.6-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	80-112		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		97.0 %	78.6-122		"	"	"	"	

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-2D
T500937-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015m									
C6-C12 (GRO)	ND	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		108 %	65-135		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015									
Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	2.8	0.50	"	"	"	"	"	"	
m,p-Xylene	1.1	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	51	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.8 %	87.6-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-112		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	78.6-122		"	"	"	"	

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John Shepler, Laboratory Director

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-3
T500937-14 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	110	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.2 %	87.6-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	80-112		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	78.6-122		"	"	"	"	

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-4S
T500937-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		103 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	2.2	0.50	"	"	"	"	"	"	
m,p-Xylene	4.7	1.0	"	"	"	"	"	"	
o-Xylene	1.1	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		100 %	87.6-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	80-112		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	78.6-122		"	"	"	"	

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-4D
T500937-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	410	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
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<i>Surrogate: 4-Bromofluorobenzene</i>		<i>112 %</i>	<i>65-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
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Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
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Toluene	2.2	0.50	"	"	"	"	"	"	"
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Ethylbenzene	10	0.50	"	"	"	"	"	"	"
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m,p-Xylene	21	1.0	"	"	"	"	"	"	"
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o-Xylene	4.5	0.50	"	"	"	"	"	"	"
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Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
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Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
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Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
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Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
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Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	"
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<i>Surrogate: Toluene-d8</i>		<i>98.0 %</i>	<i>87.6-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
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<i>Surrogate: 4-Bromofluorobenzene</i>		<i>109 %</i>	<i>80-112</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
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<i>Surrogate: Dibromofluoromethane</i>		<i>99.5 %</i>	<i>78.6-122</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
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Tait Environmental
 701 N. Parkcenter Drive
 Santa Ana CA, 92705

Project: Mission Valley Rock
 Project Number: EM5009A
 Project Manager: Greg Buchanan

Reported:
 08/19/05 16:48

MW-5S
T500937-12 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	5.8	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.8 %	87.6-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	80-112		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99.0 %	78.6-122		"	"	"	"	

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Tait Environmental
 701 N. Parkcenter Drive
 Santa Ana CA, 92705

Project: Mission Valley Rock
 Project Number: EM5009A
 Project Manager: Greg Buchanan

Reported:
 08/19/05 16:48

MW-5D
T500937-13 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		111 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	6.4	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		100 %	87.6-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	80-112		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	78.6-122		"	"	"	"	

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-6S
T500937-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	1100	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	1.3	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	D-02
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	410	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	87.6-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	80-112		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	78.6-122		"	"	"	"	

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 Santa Ana CA, 92705

Project: Mission Valley Rock
 Project Number: EM5009A
 Project Manager: Greg Buchanan

Reported:
 08/19/05 16:48

MW-6D
T500937-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	480	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	270	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.8 %	87.6-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	80-112		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.2 %	78.6-122		"	"	"	"	

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Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-7S
T500937-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	660	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		120 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	5.5	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.5 %	87.6-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	80-112		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	78.6-122		"	"	"	"	

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Tait Environmental
701 N. Parkcenter Drive
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Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-7D
T500937-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015m									
C6-C12 (GRO)	83000	500	ug/l	10	5081505	08/15/05	08/16/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %	65-135		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015									
Diesel Range Hydrocarbons	37	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	D-08
Volatile Organic Compounds by EPA Method 8260B									
Benzene	550	5.0	ug/l	10	5081503	08/15/05	08/16/05	EPA 8260B	
Toluene	2200	5.0	"	"	"	"	"	"	
Ethylbenzene	4400	5.0	"	"	"	"	"	"	
m,p-Xylene	8100	10	"	"	"	"	"	"	
o-Xylene	2500	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.5 %	87.6-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	80-112		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.5 %	78.6-122		"	"	"	"	

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

MW-8
T500937-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	50	ug/l	1	5081505	08/15/05	08/16/05	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		105 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	0.050	mg/l	1	5081504	08/15/05	08/16/05	EPA 8015m	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	5081503	08/15/05	08/15/05	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	160	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.2 %	87.6-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-112		"	"	"	"	
Surrogate: Dibromofluoromethane		98.8 %	78.6-122		"	"	"	"	

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 Santa Ana CA, 92705

Project: Mission Valley Rock
 Project Number: EM5009A
 Project Manager: Greg Buchanan

Reported:
 08/19/05 16:48

Purgeable Petroleum Hydrocarbons by EPA 8015m - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5081505 - EPA 5030 GC										
Blank (5081505-BLK1)				Prepared: 08/15/05 Analyzed: 08/16/05						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	54.8		"	50.0		110	65-135			
LCS (5081505-BS1)				Prepared: 08/15/05 Analyzed: 08/16/05						
C6-C12 (GRO)	5460	50	ug/l	5500		99.3	75-125			
Surrogate: 4-Bromofluorobenzene	58.8		"	50.0		118	65-135			
Matrix Spike (5081505-MS1)				Source: T500937-01		Prepared: 08/15/05 Analyzed: 08/16/05				
C6-C12 (GRO)	5800	50	ug/l	5500	ND	105	65-135			
Surrogate: 4-Bromofluorobenzene	58.3		"	50.0		117	65-135			
Matrix Spike Dup (5081505-MSD1)				Source: T500937-01		Prepared: 08/15/05 Analyzed: 08/16/05				
C6-C12 (GRO)	4270	50	ug/l	5500	ND	77.6	65-135	30.4	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.00		"	50.0			65-135			QM-05

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5081504 - EPA 3510C GC										
Blank (5081504-BLK1) Prepared: 08/15/05 Analyzed: 08/16/05										
Diesel Range Hydrocarbons	ND	0.050	mg/l							
LCS (5081504-BS1) Prepared: 08/15/05 Analyzed: 08/18/05										
Diesel Range Hydrocarbons	23.3	0.050	mg/l	20.0		116	75-125			
Matrix Spike (5081504-MS1) Source: T500937-01 Prepared: 08/15/05 Analyzed: 08/18/05										
Diesel Range Hydrocarbons	23.9	0.050	mg/l	20.0	ND	120	75-125			
Matrix Spike Dup (5081504-MSD1) Source: T500937-01 Prepared: 08/15/05 Analyzed: 08/18/05										
Diesel Range Hydrocarbons	23.8	0.050	mg/l	20.0	ND	119	75-125	0.419	20	

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 701 N. Parkcenter Drive
 Santa Ana CA, 92705

Project: Mission Valley Rock
 Project Number: EM5009A
 Project Manager: Greg Buchanan

Reported:
 08/19/05 16:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081503 - EPA 5030 GCMS

Blank (5081503-BLK1)

Prepared & Analyzed: 08/15/05

Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
<i>Surrogate: Toluene-d8</i>	38.4		"	40.0		96.0	87.6-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	42.9		"	40.0		107	80-112			
<i>Surrogate: Dibromofluoromethane</i>	42.3		"	40.0		106	78.6-122			

LCS (5081503-BS1)

Prepared & Analyzed: 08/15/05

Benzene	105	0.50	ug/l	100		105	75-125			
Toluene	101	0.50	"	100		101	75-125			
<i>Surrogate: Toluene-d8</i>	40.0		"	40.0		100	87.6-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	43.9		"	40.0		110	80-112			
<i>Surrogate: Dibromofluoromethane</i>	40.7		"	40.0		102	78.6-122			

Matrix Spike (5081503-MS1)

Source: T500937-01

Prepared & Analyzed: 08/15/05

Benzene	103	0.50	ug/l	100	ND	103	75-125			
Toluene	98.0	0.50	"	100	ND	98.0	75-125			
<i>Surrogate: Toluene-d8</i>	40.1		"	40.0		100	87.6-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	44.4		"	40.0		111	80-112			
<i>Surrogate: Dibromofluoromethane</i>	38.2		"	40.0		95.5	78.6-122			

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Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081503 - EPA 5030 GCMS

Matrix Spike Dup (5081503-MSD1)

Source: T500937-01

Prepared & Analyzed: 08/15/05

Benzene	105	0.50	ug/l	100	ND	105	75-125	1.92	20	
Toluene	99.5	0.50	"	100	ND	99.5	75-125	1.52	20	
Surrogate: Toluene-d8	40.2		"	40.0		100	87.6-115			
Surrogate: 4-Bromofluorobenzene	43.7		"	40.0		109	80-112			
Surrogate: Dibromofluoromethane	39.3		"	40.0		98.2	78.6-122			

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tait Environmental
701 N. Parkcenter Drive
Santa Ana CA, 92705

Project: Mission Valley Rock
Project Number: EM5009A
Project Manager: Greg Buchanan

Reported:
08/19/05 16:48

Notes and Definitions

- D-02 Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- 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

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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SunStar Laboratories, Inc.
 3002 Dow Ave., Ste. 212
 Tustin, CA 92780
 714-505-4010

Chain of Custody Record

Client: TAIT Environmental Mngt.
 Address: 701 N. PARKCENTER DRIVE SANTA ANA, CA
 Phone: (714) 560-8200 Fax: _____
 Project Manager: GREG BUCANAN

Date: 8/15/05 Page: 1 Of 1
 Project Name: MISSION VALLEY ROCK
 Collector: STAR R Client Project #: EM5009A
 Batch #: T500937 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	8015G, 8015d, MTBE, 8260 BTEX + OXY.	Laboratory ID #	Comments/Preservative	Total # of containers
MW-8	8/12/05	13:45	H2O	40 mL										X	01	HCL	4
MW-75	8/12/05	14:30	H2O	40 mL										X	02	↑	4
MW-70	8/12/05	17:30	H2O	40 mL										X	03	↑	4
MW-40	8/12/05	16:40	H2O	40 mL										X	04	↑	4
MW-45	8/12/05	17:20	H2O	40 mL										X	05	↑	4
MW-1	8/12/05	12:45	H2O	40 mL										X	06	↑	4
MW-65	8/12/05	11:55	H2O	40 mL										X	07	↑	4
MW-60	8/12/05	11:15	H2O	40 mL										X	08	↑	4
MW-2M	8/12/05	10:20	H2O	40 mL										X	09	↑	4
MW-20	8/12/05	09:35	H2O	40 mL										X	10	↑	4
MW-25	8/12/05	09:12	H2O	40 mL										X	11	↑	4
MW-55	8/11/05	15:55	H2O	40 mL										X	12	↑	4
MW-50	8/11/05	14:50	H2O	40 mL										X	13	↑	4
MW-3	8/11/05	13:20	H2O	40 mL										X	14	HCL	4

Relinquished by: (signature) <i>S. Ruffing</i>	Date / Time 8/15/05 14:55	Received by: (signature) <i>Star R</i>	Date / Time 8/15/05 14:55
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers 56
 Chain of Custody seals Y/N NA
 Seals intact? Y/N NA
 Received good condition 32
 Turn around time: NORMAL

Notes

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____