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Work Plan to Conduct Air Injection and Implement Monitored Natural Attenuation Hanson Aggregates Mission Valley Rock Facility 7999 Athenour Way Sunol, Alameda County, California (SLIC Case #RO0000207 and GeoTracker ID T0600102092)

October 3, 2008
001-09480-07

Prepared for
Hanson Aggregates Northern California
3000 Busch Road
Pleasanton, California 94566

Prepared by
LFR Inc.
1900 Powell Street, 12th Floor
Emeryville, California 94608

Lehigh Hanson
HEIDELBERGCEMENT Group

Hanson Aggregates West Region
3000 Busch Road
Pleasanton, CA 94566-8403

October 3, 2008

Mr. Jerry Wickham
Alameda County Environmental Health
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Work Plan to Conduct Air Injection and Implement Monitored Natural Attenuation, Hanson Aggregates Mission Valley Rock Facility, 7999 Athenour Way, Sunol, Alameda County, California (SLIC Case #RO0000207 and GeoTracker ID T0600102092)**

Dear Mr. Wickham:

This “Work Plan to Conduct Air Injection and Implement Monitored Natural Attenuation” (“Work Plan”) was prepared by LFR Inc. (LFR), on behalf of Hanson Aggregates Northern California (“Hanson”), for the former Mission Valley Rock Company facility, located at 7999 Athenour Way in Sunol, Alameda County, California. This Work Plan has been prepared in response to a request by Alameda County Environmental Health staff included in their letter to Hanson dated July 24, 2008.

The Work Plan presents proposed methods and procedures to implement air injection and monitored natural attenuation to remediate petroleum-affected groundwater at the Hanson Sunol Asphalt Plant. A discussion of the hydrogeologic conceptual model that supports selection of this remedial strategy is also presented.

As requested, this Work Plan will be submitted electronically via the Alameda County Environmental Cleanup Oversight Program FTP website, and via the Regional Water Quality Control Board’s GeoTracker electronic submittal system.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report are true and correct to the best of my knowledge. If you have any questions or comments concerning this Work Plan, please call me at (925) 426-4170 or Ron Goloubow of LFR at (510) 652-4500.

Sincerely,

Lee W. Cover
Environmental Manager
Hanson Aggregates Northern California

Attachment

CONTENTS

APPENDICES

CERTIFICATIONS

LFR Inc. has prepared this "Work Plan to Conduct Air Injection and Implement Monitored Natural Attenuation" to describe work conducted in the asphalt plant area of the Hanson Aggregates Mission Valley Rock Facility in Sunol, California, on behalf of Hanson Aggregates Northern California, in a manner consistent with the level of care and skill ordinarily exercised by professional engineers and geologists. This report was prepared under the technical direction of the undersigned California Professional Geologist and California Professional Engineer.*

October 3, 2008

J. Scott Seyfried, P.G., C.HG.
Principal Hydrogeologist
California Professional Geologist (7374)
Registered Hydrogeologist (764)

Date

REGISTERED PROFESSIONAL ENGINEER
E. (Max) MacLeod
No. 69846
Exp. 09/10
CIVIL
STATE OF CALIFORNIA

10/03/08

E. Max MacLeod, P.E.
Senior Project Engineer
California Professional Civil Engineer (C69846)

Date

* A professional geologist's or engineer's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

1.0 INTRODUCTION

LFR Inc. (LFR) has prepared this Work Plan, on behalf of Hanson Aggregates of Northern California ("Hanson"), presenting proposed methods and procedures to implement air injection and monitored natural attenuation (MNA) to remediate petroleum-affected groundwater at the Hanson Sunol Asphalt Plant ("the Site"), located within the Hanson facility at 7999 Athenour Way in Sunol, Alameda County, California (Figures 1 and 2). If the implementation of air injection and MNA measures as presented in this Work Plan are effective, then these measures may be considered the "final remedy" for the affected groundwater at the Site. A discussion of the hydrogeologic conceptual model that supports selection of this remedial strategy is also presented. This Work Plan has been prepared in response to a request by Alameda County Environmental Health (ACEH) staff included in their letter to Hanson dated July 24, 2008.

1.1 Background

The Site is located within the approximately 588-acre property owned and operated by Hanson since early 2005, and previously by Mission Valley Rock Company since the 1950s. The Hanson Sunol facility is operated as an aggregate mining quarry with an asphalt manufacturing plant and a ready mix concrete plant. Additionally, various areas throughout the property are leased for industrial, agricultural, and storage purposes.

Results of several phases of investigation at the Site have revealed the presence of petroleum-affected soil and groundwater beneath the Site. These previous investigation results have been summarized in a recent site assessment report (LFR 2007), which includes a hydrogeologic Site Conceptual Model (SCM; Appendix A). In addition, groundwater flow and chemistry data are presented in routine monitoring reports prepared and submitted by Tait Environmental Management Inc.

In response to requests from ACEH to Hanson in 2006 for the implementation of an active groundwater remedy for the Site, Hanson completed a pilot test of air injection during January and February 2008 in accordance with an ACEH-approved Work Plan (LFR 2007b). Based on the results of that pilot test, LFR and Hanson recommended implementation of an air injection remedy and MNA for the affected groundwater at the Site ("Air Injection/MNA remedy"; LFR 2008).

In a letter dated May 1, 2008, ACEH stated that they did not concur with the recommendations presented in the "Air Sparge Pilot Test Completion Report" (LFR 2008), and requested that Hanson prepare a Corrective Action Plan for the Site with proposed cleanup levels for soil and groundwater, an evaluation of all areas affected by fuel releases from underground storage tanks (USTs), and an evaluation of three or more remedial alternatives. At the request of Hanson, ACEH met with representatives of Hanson, LFR, and Malcolm Pirnie (representing the technical interests of Berkeley-Sunol Holdings, LLC) to discuss the Site on July 18, 2008. During that meeting, LFR presented components of the SCM that supported the selection of the Air Injection/MNA remedy. At the conclusion of that meeting, ACEH requested that Hanson submit a Work Plan presenting the components of the SCM discussed in that meeting, and the methodology to implement the proposed Air Injection/MNA remedy.

The ACEH request for a Work Plan was included in a letter from ACEH to Hanson dated July 24, 2008 that further requested that the Work Plan include the following:

- a summary of discussions held during the July 18, 2008 meeting
- a discussion of those elements of the SCM that were presented during the July 18 meeting
- a discussion of the expected effects of conducting the proposed air injection on groundwater contamination in the southern portion of the Site
- a discussion of the adequacy of plume delineation in the southern portion of the Site

This Work Plan is submitted in response to that request.

1.2 Report Organization

This Work Plan is presented in the following sections.

Section 2.0 presents those elements of the SCM that were discussed during the July 18, 2008 meeting and includes a discussion of the adequacy of plume delineation in the southern portion of the Site.

Section 3.0 presents the methodology to implement the proposed remedial approach of combining air injection with MNA, and includes a discussion of the expected effects of conducting the proposed air injection on groundwater contamination in the southern portion of the Site.

Section 4.0 is a proposed schedule for the implementation of the proposed remedy.

2.0 ADDITIONS TO SITE CONCEPTUAL MODEL

Previous investigations at the Site included the advancement of approximately 17 temporary soil borings and installation and monitoring of 27 groundwater monitoring wells. One groundwater monitoring well has been abandoned, and currently 26 groundwater monitoring wells are present at the Site. The most recent groundwater monitoring wells (well clusters MW-9 through MW-12, installed during April and May 2006) were completed to depths designated as shallow ("S", screened approximately from 5 to 10 feet below ground surface [bgs]), deep ("D", screened approximately between 15 and 25 feet bgs), and Livermore Formation ("LF", screened approximately from 35 to 40 feet bgs and believed to be approximately within the top 5 to 10 feet of the Livermore Formation). These depth designations have been used to describe the screened intervals for other previous monitoring wells. A summary of existing groundwater data collected at the Site is presented in Appendix A. The locations of the groundwater monitoring wells and air injection wells are illustrated on Figure 3.

LFR developed an SCM based on regional and local hydrogeologic data, and local site use and history data. That SCM was presented in Appendix A of the "Site Assessment Report of Additional Lateral and Vertical Characterization for Interim Remediation at the Asphalt Plant" (LFR 2007a). The following sections present additional components to that SCM, which were presented to ACEH during the July 18, 2008 meeting and which relate specifically to the selection of the proposed Air Injection/MNA remedy. The following specific details of the SCM were modified during the July 18, 2008 meeting:

- Based on the current site usage, there are no known complete exposure pathways to human receptors.
- Future exposure pathways are unlikely and limited to a construction worker-type exposure scenario that could arise from potential future mining activities in the event that those potential future activities encounter affected media.
- Based on the soil and groundwater samples collected at the Site to date, there is no known source for the affected groundwater in the vadose zone (unsaturated soil). The analytical results of soil and groundwater samples collected at the Site indicate that the groundwater was likely affected by releases from the former USTs at the Site and the changes in the groundwater elevation and groundwater flow direction have resulted in the lateral and vertical distribution of the affected groundwater at the Site.

As discussed during the July 18 meeting, analysis of hydrocarbon composition data, trend data, and geochemical data indicates that four areas of affected groundwater have been identified at the Site. The locations of these areas are summarized below and illustrated on Figures 2 through 4).

Areas of Affected Groundwater

Descriptive Parameter	Generalized Area			
	Northern Area	**Former UST Area**	**Asphalt Plant**	**Downgradient (Southern) Area**
Indicator Wells	MW-9 S/D/LF, MW-7S/D, MW-1	MW-10 S/D/LF, MW-5	MW-2S/M/D, MW-6S	MW-3, MW-6D, MW-11 S/D/LF
Chemical Composition	Predominantly TPHg; minor component of TPHd; no MTBE	Predominantly TPHg, low (<10 μg/L) MTBE	TPHd, with MTBE	TPHg, TPHd, and MTBE from apparent upgradient areas
Concentration Trends	Decreasing trend for TPHg and BTEX compounds in 9S/LF; decreasing trend in benzene (only) in MW-9D	Decreasing trends for TPHg and TPHd and MTBE	Decreasing trends in MTBE; relatively flat trend for TPHd in shallow groundwater at MW-2S; decreasing TPHd trend in MW-6S	Decreasing from individual constituents (MTBE, BTEX compounds); some flat trends for TPHg and TPHd
Vertical Distribution	Highest concentrations in D interval	Highest concentrations in D interval	Highest concentrations of TPHd in S interval	S, D, and LF
Geochemistry	Reducing conditions (DO <1 mg/L and elevated methane [MW-7])	Moderately reducing condition (DO <1 mg/L, low methane)	Not known	Likely transition from moderately reducing (i.e., MW-5 area) to slightly aerobic (i.e., near background well MW-12)

Notes:
μg/L = micrograms per liter
mg/L = milligrams per liter
BTEX = benzene, toluene, ethylbenzene, and total xylenes
DO = dissolved oxygen
MTBE = methyl tertiary-butyl ether
TPH = total petroleum hydrocarbons
TPHd = total petroleum hydrocarbons as diesel
TPHg = total petroleum hydrocarbons as gasoline

These generalized areas of groundwater impacts are discussed below.

2.1 Northern Area

Analytical results for groundwater samples collected at the Site indicate that an area of affected groundwater is located in the vicinity of well cluster MW-9 and extends south to the vicinity of well MW-7. This area is characterized as consisting predominantly of gasoline-range hydrocarbons concentrated in the "D" interval, and an absence of MTBE. Analytical results for groundwater samples collected from wells in this area of the Site indicate that concentrations of hydrocarbons, especially BTEX compounds, have generally decreased over time (Appendix A). However, TPH concentrations remain relatively elevated, especially in groundwater samples collected from well MW-9D, where TPHg was recently reported at 44 mg/L.

The presence of TPH in groundwater in this area of the Site has apparently resulted in a reducing groundwater condition relative to background, likely resulting from aerobic respiration (degradation) of petroleum hydrocarbons. This conclusion is supported with geochemical data collected from well MW-7 that indicate the presence of elevated concentrations of methane (3.5 mg/L) and reduced concentrations of sulfate (12.5 mg/L) relative to apparent background conditions as represented by data from MW-12 (0.004 mg/L methane and 71.8 mg/L sulfate; Figures 2 through 4 and Appendix A).

2.2 Former UST Area

Analytical results for groundwater samples collected from well cluster MW-10 indicate the presence of a different area of affected groundwater at the Site. This area is primarily comprised of TPHg-range hydrocarbons in the "D" interval, and is located in the general vicinity of former gasoline and diesel USTs (Figures 2 through 4). Relative to the affected groundwater in the northern area of the Site, concentrations of hydrocarbons detected in samples collected from wells located in the vicinity of former gasoline and diesel USTs are much lower (less than 1 mg/L) and exhibit consistent decreasing trends.

2.3 Asphalt Plant Area

Relatively elevated concentrations of TPHd in samples collected from well MW-2S (8.9 mg/L, March 2008) indicate the possible presence of an additional area of affected groundwater at the Site in the general vicinity of wells MW-2 and MW-6. Unlike the other two areas of affected groundwater at the Site, hydrocarbon impacts to groundwater near wells MW-2 and MW-6 appear to be more elevated in the shallowest interval, and are characterized by the presence of TPHd. This area of affected groundwater also is characterized as having somewhat elevated concentrations of MTBE (historically up to 410 μg/L [MW-6S, August 2005]) in the S and D depth intervals. However, concentrations of MTBE in groundwater samples collected in this area show a consistent decreasing trend such that current levels are generally below 20 μg/L (Appendix A).

2.4 Downgradient (Southern) Extent of Hydrocarbon Impacts to Groundwater and Monitoring Well Network

Results for groundwater data collected from temporary soil borings MIP-03 and MIP-6 (LFR 2007b) in conjunction with the analytical results for groundwater samples collected from wells MW-12S/D/LF and MW-4 (Figure 2) indicate that the downgradient extent of petroleum-affected groundwater associated with this Site has been delineated. Groundwater quality data from these locations indicate the limited and stable nature of the affected groundwater at the Site.

Analytical results from groundwater samples collected from wells MW-3 and MW-11 S/D/LF over time further characterize the downgradient impacts and hydrocarbon concentration trends within the areas of affected groundwater described above (Appendix A). For example, the historical trend data for MW-3 indicate a long-term decreasing trend in diesel-range hydrocarbons (from 12 mg/L in June 1998 to current concentrations that are below laboratory reporting limits [<0.050 mg/L]), while MTBE data for that well show more of a consistent (flat) to slightly decreasing trend (Appendix A).

The presence of more elevated concentrations of TPH in samples collected from well MW-11D and MTBE in samples collected from well MW-11LF indicate that this well cluster is monitoring impacts from affected groundwater located in the upgradient direction. The concentrations of MTBE, which exist in samples where TPHg is below reporting limits, have likely migrated vertically downward from the D interval to the LF interval. It is important to note that concentrations of MTBE in samples collected from well MW-11LF have been decreasing (from 250 μg/L in May 2006 to 150 μg/L in June 2008).

Historical water quality data for samples collected from wells MW-3 and MW-11 S/D/LF indicate that these wells are providing representative water quality data regarding lateral extent and trend of petroleum hydrocarbons in groundwater at the Site. Given this linkage, data from these wells will be used to monitor the effectiveness of the active remedy proposed in the northern area of affected groundwater, and the ongoing MNA remedy for the remainder of the groundwater impacts.

3.0 PROPOSED REMEDIAL MEASURES

3.1 Remedial Approach and Rationale

As described above, the area of TPH-affected groundwater in the vicinity of well MW-9 appears to be contributing hydrocarbon mass to groundwater, and is contributing to an oxygen-limiting condition in groundwater. Air injection is likely to reverse this oxygen-limiting condition and create conditions favorable for the enhancement of biological degradation of petroleum hydrocarbons. The overall extent of the area of affected groundwater in the vicinity of well MW-9 is limited, indicating that natural attenuation mechanisms have been effective at stabilizing the migration of the affected groundwater, and has resulted in decreasing trends in the majority of the plume. Given this SCM, the reduction of the hydrocarbon mass and an increase in the oxygen concentration in the groundwater in the northern area of affected groundwater would be expected to accelerate existing natural attenuation mechanisms throughout this area of affected groundwater (i.e., including the southern portion of the impact area), which would reduce the overall remedial time frame. Results from the air injection pilot test demonstrated that application of this technology using existing injection wells installed during the pilot test is likely to be sufficient to accomplish these objectives (LFR 2008).

3.2 Air Injection in Area of Affected Groundwater

The following sections described proposed methods (air injection along with MNA) to address petroleum-affected groundwater beneath the Site.

3.2.1 Materials and Construction

A conceptual drawing of the proposed air injection system is presented on Figure 5. As shown on that figure, the air injection system will include a compressor with the capacity to continuously produce a minimum air flow rate of up to 10 standard cubic feet per minute (scfm) to provide compressed air to the system. The compressor will be mounted on an approximately 80-gallon air tank. A pressure regulator will be placed between the compressor tank and a manifold fitted with two solenoid valves. The pressure regulator will be used to control the pressure of compressed air supplied to the manifold. Additionally, each line of the two compressed air lines leading to the injection well will pass through a pressure or flow regulator, which will be used to control the flow through each injection well. The pilot test of air injection demonstrated that there is little formation resistance to air injection and that relatively high air flow could be achieved with a relatively low injection pressure. Two solenoid valves that will normally be in the closed position will be mounted on the manifold. The valves will open for periods of time to allow a pulsed application of compressed air to enter into the two injection wells. A programmable timer will allow the system operator to specify the frequency of injection periods as well as the length of each injection period and non-injection period for each cycle. Downstream from the solenoids, each leg of the compressed air stream will be fitted with flow meters with a range of 0 to 10 scfm. From the flow meters the air will be routed through compressed air lines placed in conduit-installed trenches to the wellheads of OXY-1D and OXY-1LF.

3.2.2 Operations and Maintenance

Operations and maintenance (O&M) will occur on a weekly basis. During these visits, operational data will be collected, machinery will be inspected, and system troubleshooting and optimization will be performed. Specific tasks will include recording pressure and flow data for the two injection wells, recording the “on” and "off" periods and frequency of each solenoid's programmed cycle, checking the system for air leaks, checking the oil level in the compressor, and verifying proper solenoid operation. The system is designed to offer operational flexibility, and the site O&M visits may also be used to change the injection period frequency, the injection times for the two wells, and the time between injection intervals.

Initial system operation will be conducted using a low-flow, pulsed approach. The individual regulators will be adjusted so that not more than 5 scfm of air is allowed to pass through either injection point. During pilot testing, 5 scfm flows were achieved at pressures approximately 2 pounds per square inch (psi) above the breakthrough pressure (the minimum pressure at which flow into the injection points begins). This correlated to air injection pressures of approximately 17 psi for OXY-1LF and 12 psi for OXY-1D. Additionally, the solenoids will be closed (stopping flow to the injection points), for one-third of the period. The two injection points (OXY-1D and OXY-1LF) will be operated in an alternating sequence so that their injection periods do not overlap. The proposed initial injection sequence is presented in the following table.

Proposed Initial Air Injection Sequence

Time Interval	OXY-1LF	OXY-1D
20 Minutes	Injection at Approximately 17 psi and 5 scfm	Off
10 Minutes	Off	Off
20 Minutes	Off	Injection at Approximately 12 psi and 5 scfm
10 Minutes	Off	Off

3.2.3 Performance Monitoring and Contingency Measures

Ongoing groundwater quality data collected from the existing quarterly groundwater monitoring program will be used to assess the performance of the air injection system in the northern area of affected groundwater, and the proposed MNA remedy for the remainder of the area of affected groundwater. Additional organic, inorganic, and microbial data will be collected during the first quarter of system operation as shown in Table 1.

Performance monitoring will be used to determine whether or not contingency measures should be taken to improve system performance. Specific contingency measures include:

- Increasing the flow rate of injected air,
- Increasing the percentage of injection time for either or both injection wells,
- Increasing or decreasing the frequency of system pulsing,
- Injecting air enriched with oxygen, and
- Adding ozone to the injection air.

3.2.3.1 Increasing Injection Air Flow Rate

If the flow rate of injected air is increased and sequencing remains the same, more oxygen is introduced into the targeted aquifer. The advantage of an increased flow rate is that it is likely to create a larger network of the small air channels that deliver oxygen to the groundwater. This leads directly to a larger volume of water with elevated DO, a positive development for the biodegradation of hydrocarbons found at the Site. Given that analytical results from soil-gas samples when considered in conjunction with California Occupational Safety and Health Administration (Cal/OSHA) permissible exposure limits (PELs) indicated that the increased risk to human health posed by air injection was not significant (LFR 2008), relatively higher flow rates (achievable at low pressures) can be considered if low flows do not deliver sufficient oxygen to the aquifer.

3.2.3.2 Increasing the Percentage of Injection Time

As with increasing the air flow rate at a particular well, increasing the percentage of time that an individual injection well is on will introduce more oxygen into the aquifer. If the time is increased to an interval that is too long, one or more preferential pathways in the air channel network can develop and most of the air will not reach the aquifer as a whole, but will follow the preferential pathway into the vadose zone. Most of the injected air is then wasted and does not enhance conditions for the aerobic biodegradation of dissolved hydrocarbons in site groundwater. Therefore, injection times over one hour are not considered optimal unless flow rates are quite low (less than 5 scfm).

3.2.3.3 Altering the Frequency of System Pulsing

Altering pulsing frequency can be done either independently or in conjunction with increasing the flow rate and altering the percentage of injection time. If the overall amount of air injected into the aquifer was estimated to be sufficient but the resultant volume of influence was too small, a more frequent, shorter duration, higher flow rate may be implemented. Many other combinations of flow alteration and frequency manipulation can be implemented using the regulators and the system timer to optimize the delivery of air into the affected groundwater.

3.2.3.4 Injecting Air Enriched with Oxygen

It is expected that using air for injection will meet the oxygen demand required for the successful treatment of affected groundwater at the Site. If it is determined that a low flow rate is necessary at the Site, but the low flow rate does not meet the oxygen needs of aerobic degradation, enriching the injection air with oxygen will be considered. Using an oxygen generator or a zeolite filter, it is possible to increase the percentage of oxygen in the injection gas to over 90%. Oxygen-enriched injection may increase the rate of biodegradation or the volume of groundwater treated or both.

3.2.3.5 Adding Ozone to the Injection Air

Ozone can be generated on site and added to the stream of air injected into the affected groundwater. Ozone will chemically oxidize the petroleum hydrocarbons in site groundwater and break down into oxygen. Ozone is a strong oxidizer and does not preferentially attack hydrocarbons, but rather scavenges electrons from all available sources. In the center of the injection area, this will likely oxidize the vast majority of beneficial hydrocarbon-degrading microbes. However, their function will be replaced by the direct oxidation of the hydrocarbons by the ozone. At the fringes of the injection area, the aerobic hydrocarbon-specific degrading microbes will benefit from the oxygen introduced by the breakdown of ozone into oxygen.

Ozone systems are significantly more expensive in original and O&M costs than air injection but have proven to be effective at many sites. Should other air/enriched-oxygen injection methods and adjustments fail to improve system performance, addition of ozone to the injected gas stream may be considered.

4.0 PROPOSED SCHEDULE

LFR anticipates that following schedule:

- Approval of this work plan from ACEH - 3 weeks
- Finalize the design and specification for the remedial treatment system – 3 weeks
- Purchase/procurement of remedial equipment – 3 weeks
- Install remedial equipment (includes selection of contractor, trenching, and modification of existing well boxes – 3 weeks
- System start-up – 9 weeks after ACEH approval
- O&M – ongoing after system start-up
- Quarterly Reporting – LFR will transmit a summary report to ACEH 30 days after the system has operated for 3 months, and quarterly thereafter. The initial report will present the results of the system start-up and the initial groundwater monitoring conducted in accordance with Table 1. The subsequent quarterly monitoring reports

will present the results of the routine O&M and monitoring conducted for the treatment system.

LFR will inform ACEH of any significant changes to this schedule.

5.0 LIMITATIONS

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by LFR and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given. To the extent that LFR relied upon any information prepared by other parties not under contract to LFR, LFR makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when LFR's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the Site may vary from those at the locations where data were collected. LFR's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in environmental investigation conclusions cannot reasonably be achieved.

LFR, therefore, does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

6.0 REFERENCES

LFR Inc. (LFR). 2007a. Site Assessment Report of Additional Lateral and Vertical Characterization and Plan for Interim Remediation at the Asphalt Plant, Hanson Aggregates Mission Valley Rock Facility, 7999 Athenour Way, Sunol, Alameda County, California. April 10.

———. 2007b. Work Plan to Conduct a Groundwater Remediation Pilot Test at the Asphalt Plant and Additional Subsurface Characterization in the Former Diesel Spray Area, Hanson Aggregates Mission Valley Rock Facility, 7999 Athenour Way, Sunol, Alameda County, California. August 3.

———. 2008. Air Sparge Pilot Test Completion Report, Hanson Aggregates Mission Valley Rock Facility, 7999 Athenour Way, Sunol, Alameda County, California. March 28.

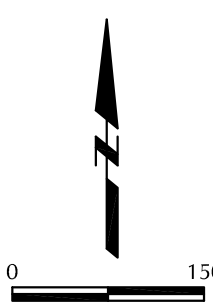
Table 1
Sampling Frequency for First Quarter of Operation of the Air Injection System and Monitored Natural Attenuation
Hanson Aggregates Sunol Facility, Asphalt Plant
7999 Athenour Way, Sunol, California

	Field Parameters	Organic	Inorganic		Microbial	
	Temp, EC, pH, DO, ORP	TPHd, TPHg, BTEX, MTBE	Nitrate/Nitrite, TKN, Ortho-phosphate, BOD, COD, Fe	Fe+2	HPC	SD (gasoline)
Well ID	Frequency	Frequency	Frequency	Frequency	Frequency	Frequency
MW-1	M	M	-	-	-	-
MW-7S	M	M	-	-	-	-
MW-7D	M	M	Q	Q	Q	Q
MW-8	M	M	-	-	-	-
MW-9S	M	M	Q	Q	Q	Q
MW-9D	M	M	Q	Q	Q	Q
MW-9LF	M	M	Q	Q	Q	Q
OXY-1S	-	Q	-	-	-	-
OXY-1D	-	Q	-	-	-	-
OXY-1LF	-	Q	-	-	-	-

Notes:

M = monthly for the first quarter
Q = at the end of the first quarter
- = not to be sampled for the given analyte
SG (gasoline) = specific degrader for gasoline count by EPA Method 9215-A
EC = electrical conductivity in microSiemens per centimeter (µS/cm)
DO = dissolved oxygen in milligrams per liter (mg/l)
ORP = oxidation-reduction potential in millivolts (mV)
TPHd = total petroleum hydrocarbons as diesel by EPA Method 8015
TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8260B
BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B

Temp = temperature in degrees Celsius (°C)
MTBE = methyl tertiary-butyl ether by EPA Method 8260B
nitrate and nitrite by EPA Method 354.1
TKN = total Kjeldahl nitrogen by EPA Method 4500
orthophosphate by EPA Method 365.3
BOD = biological oxygen demand by EPA Method 5210B
COD = chemical oxygen demand by EPA Method 410.1
Fe = dissolved iron by EPA Method 410.1
Fe+2 = dissolved ferrous iron by EPA Method 410.1
HPC = heterotrophic plate count by EPA Method 9215-A



SOURCE: GOOGLE EARTH PRO

Site Location Map

Hanson Aggregates, Sunol, California

LFR

Figure 1

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EXPLANATION:

MW-9	Groundwater monitoring well (Single completion; nested and well cluster)
MIP-3	MIP boring / grab groundwater
B-1	Sonic boring / grab groundwater

Site Plan

Hanson Aggregates, Sunol, California

LFR

Figure 2

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EXPLANATION:

MW-9S	Groundwater monitoring well by LFR Inc. (single completion; well cluster)
MW-1	Groundwater monitoring well by Tait (single completion)
MW-7S/7D	Existing groundwater monitoring well by Tait (dual nested)
MW-2S/2M/2D	Existing groundwater monitoring well by Tait (triple nested)
MW-2	Abandoned groundwater monitoring well
TB-6	Grab groundwater sample location
SB-4	Temporary soil boring location
B-2	Sonic boring / grab groundwater
MIP-3	MIP boring / grab groundwater
OXY-1S	Pilot test air injection well (approximate location)
SG-1	Soil gas monitoring probe (approximate location)
MW-9S	Wells monitored during pilot test

AST = Aboveground storage tank
UST = Underground storage tank
MIP = Membrane Interface Probe

Pilot Sparge Test Area

Site Plan Showing Locations of Air Sparging Wells

Hanson Aggregates, Sunol, California

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Figure 3

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MW-7D		
2/28/07		
TPH-d	790	µg/l
TPH-g	6,800	
Benzene	29	
Toluene	51	
Ethylbenzene	460	
m,p-Xylene	440	
o-Xylene	51	
MTBE	< 1.0	
Chromium	< 0.050	mg/l
Chromium VI	< 0.0010	
Sulfate as SO4	12.50	
Bromide	< 0.500	
Nitrate as NO3	< 0.500	
Methane	3.510	
BOD	5.40	
COD	35	
Ferrous Iron	2.12	
Sulfide	0.15	
Nitrite	0.140	
DO (mg/l)	0.69 to 0.42	
ORP (mV)	-226.7 to -241.4	

MW-5D		
2/28/07		
TPH-d	< 500	µg/l
TPH-g	< 50	
Benzene	< 0.50	
Toluene	< 0.50	
Ethylbenzene	< 0.50	
m,p-Xylene	< 1.0	
o-Xylene	< 0.50	
MTBE	1.6	
Chromium	< 0.050	mg/l
Chromium VI	< 0.0010	
Sulfate as SO4	33.80	
Bromide	30.90	
Nitrate as NO3	< 0.500	
Methane	0.426	
BOD	2.20	
COD	51	
Ferrous Iron	3.30	
Sulfide	0.020	
Nitrite	0.006	
DO (mg/l)	0.65 to 0.23	
ORP (mV)	-183.7 to -197.3	

MW-12D		
2/28/07		
TPH-d	< 500	µg/l
TPH-g	51	
Benzene	< 0.50	
Toluene	< 0.50	
Ethylbenzene	< 0.50	
m,p-Xylene	< 1.0	
o-Xylene	< 0.50	
MTBE	< 1.0	
Chromium	< 0.050	mg/l
Chromium VI	< 0.025	
Sulfate as SO4	71.80	
Bromide	< 0.500	
Nitrate as NO3	< 0.500	
Methane	0.004	
BOD	< 2.0	
COD	< 2.0	
Ferrous Iron	0.02	
Sulfide	0.02	
Nitrite	0.017	
DO (mg)/l	1.06 to 0.43	
ORP (mV)	136.8 to 145.9	

EXPLANATION:

- MW-9S — Groundwater monitoring well by LFR Inc. (single completion; well cluster)
- MW-1 — Groundwater monitoring well by Tait (single completion)
- MW-7S/7D — Existing groundwater monitoring well by Tait (dual nested)
- MW-2S/SM/2D — Existing groundwater monitoring well by Tait (triple nested)
- MW-2 — Abandoned groundwater monitoring well
- TB-1 — Grab groundwater sample location
- SB-1 — Temporary soil boring location
- B-2 — Sonic boring / grab groundwater
- MIP 3 — MIP boring / grab groundwater

AST = Aboveground storage tank
UST = Underground storage tank
MIP = Membrane Interface Probe

TPH-d Total Petroleum Hydrocarbons as Diesel
TPH-g Total Petroleum Hydrocarbons as Gas
BOD Biochemical Oxygen Demand
COD Chemical Oxygen Demand
DO Dissolved Oxygen
ORP Oxidation Reduction Potential

Groundwater Analytical Results - Indicator Parameters

Hanson Aggregates, Sunol, California

LFR

Figure 4

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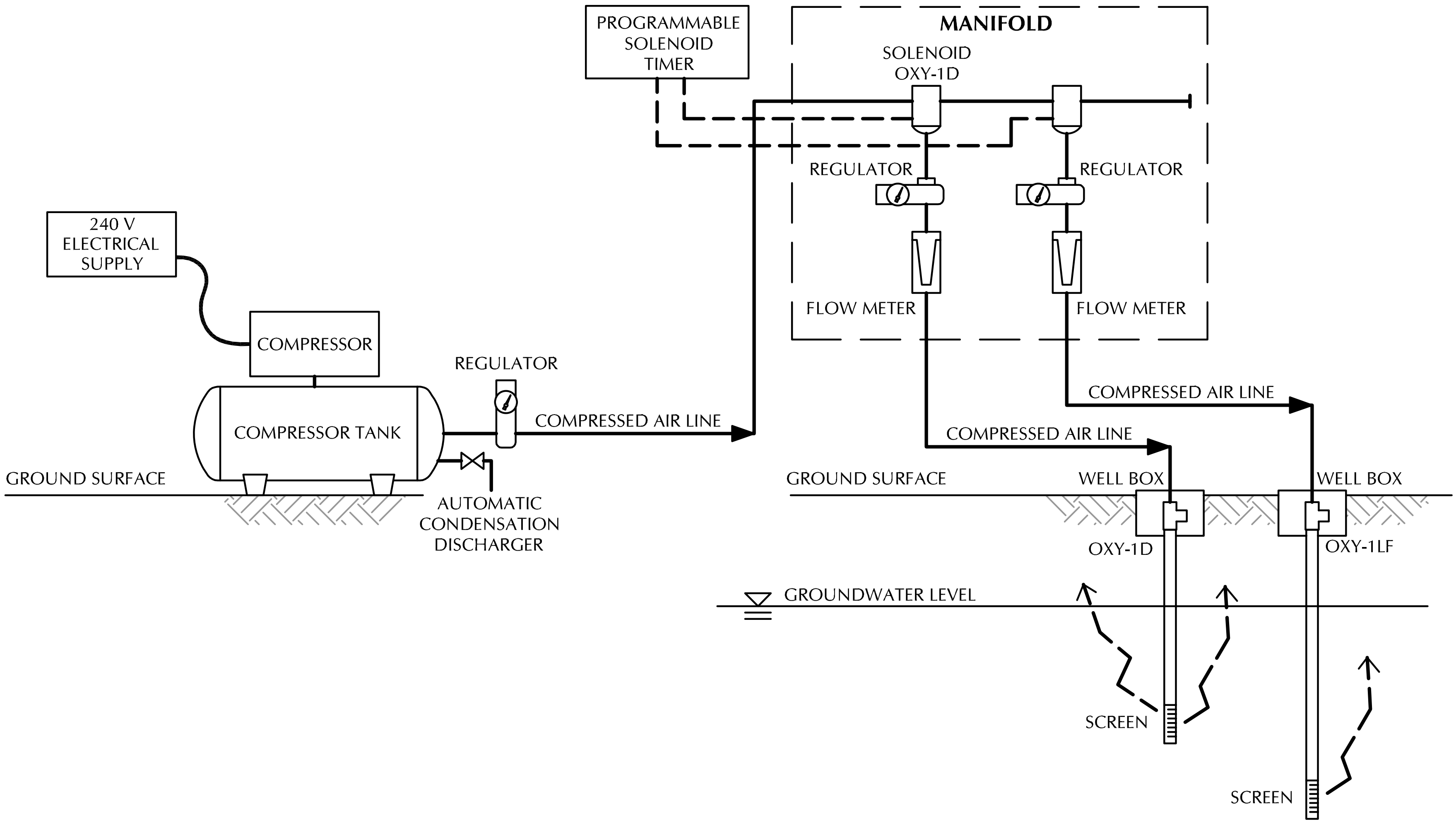

Conceptual Drawing of Proposed Air Injection System

Hanson Aggregates, Sunol, California

LFR

Figure 5

APPENDIX A

Historical Groundwater Analytical Results

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)	TAME (ug/L)	TBA (ug/L)	MTBE (ug/L)
MW-1	06/23/98	**0.1**	**3100**	**19**	**2.3**	**91**	**48**	ND< 2.0	ND< 10	**110**
	10/01/98	**0.1**	**2300**	**3.1**	**4.2**	**5.0**	**15**	ND< 2.0	ND< 10	ND< 0.5
	01/05/99	**350**	ND< 50	**12**	**7.5**	**20**	**6.2**	ND< 2.0	ND< 10	ND< 5.0
	03/29/99	**190**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	06/10/99	**210**	**1800**	**1.2**	**0.9**	**1.5**	**4.6**	ND< 2.0	ND< 10	ND< 0.5
	09/17/99	**62**	**180**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	12/27/99	**290**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	03/22/00	**86**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	06/30/00	**70**	**450**	**2.1**	ND< 0.5	**2.1**	**1.4**	ND< 2.0	ND< 10	**7.6**
	09/14/00	ND< 50	**850**	**5.4**	ND< 0.5	**9.4**	**2.6**	ND< 2.0	ND< 10	**9.8**
	12/20/00	ND< 1000	**370**	**5.3**	ND< 1.0	**2.7**	ND< 3.0	ND< 2.0	ND< 10	**55**
	03/22/01	ND< 1000	**700**	ND< 1.0	ND< 1.0	**1.4**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/27/01	ND< 1000	**170**	ND< 1.0	ND< 1.0	**1.2**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/21/01	ND< 1000	**730**	**1.4**	ND< 1.0	**7.6**	**1.2**	ND< 2.0	ND< 10	ND< 1.0
	12/27/01	**1000**	**500**	**15**	ND< 1.0	**27**	**5.5**	ND< 2.0	ND< 10	ND< 1.0
	03/29/02	**12000**	**29000**	**50**	ND< 25	**960**	**290**	ND< 2.0	ND< 10	ND< 25
	06/13/02	ND< 1000	**1400**	**3.5**	ND< 1.0	**42**	**7.9**	ND< 2.0	ND< 10	ND< 1.0
	09/27/02	**1400**	**760**	ND< 1.0	ND< 1.0	**4.3**	**1.1**	ND< 2.0	ND< 10	ND< 1.0
	12/03/02	ND< 1000	**1600**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/31/03	ND< 1000	**620**	**1.2**	ND< 1.0	**12**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/27/03	ND< 1000	**0.61**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/19/03	ND< 1000	**1.2**	ND< 1.0	ND< 1.0	**6.4**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/22/03	ND< 1000	**0.49**	ND< 1.0	ND< 1.0	**3**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	01/17/05	ND< 50	**63**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	05/04/05	ND< 50	**1200**	ND< 0.5	ND< 0.5	**8.5**	**1.2**	ND< 2.0	ND< 10	ND< 1.0
	08/12/05	ND< 50	**410**	ND< 0.5	ND< 0.5	**2.4**	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	12/13/05	ND< 50	**750**	**3.8**	ND< 0.5	**4.2**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/03/06	ND< 50	**310**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/13/06	ND< 50	**96**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/06/06	ND< 50	**920**	ND< 0.5	ND< 0.5	**5.3**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/05/06	ND< 50	**1200**	**1.4**	ND< 0.5	**1.5**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	02/27/07	ND< 500	**430**	**1.1**	ND< 0.5	**7.9**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/12/07	ND< 500	**370**	**0.9**	ND< 0.5	**17**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/11/07	ND< 500	**270**	**0.80**	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/11/07	ND< 50	**890**	**6.60**	**0.54**	**0.5**	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/11/08	ND< 50	**660**	ND< 0.50	ND< 0.50	**4**	**4.9**	ND< 2.0	ND< 10	ND< 1.0
	06/10/08	ND< 50	**220**	ND< 0.50	ND< 0.50	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0

TPHd: diesel
TPHg: gasoline
TAME: tert amyl methyl ether
TBA: tert-butyl alcohol
MTBE: methyl tert-butyl ether
ug/L: micrograms per liter
ND: not detected above laboratory reporting limit

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)	TAME (ug/L)	TBA (ug/L)	MTBE (ug/L)
MW-2	06/23/98	**12000**	**2500**	**0.68**	ND< 0.5	**1.2**	**0.57**	ND< 2.0	ND< 10	**14**
	10/01/98	**4300**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	01/05/99	**38000**	ND< 5000	ND< 1.0	ND< 50	**51**	**190**	ND< 2.0	ND< 10	ND< 500
	03/29/99	**580**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	06/10/99	**4500**	**24000**	**38**	**27**	**41**	**98**	ND< 2.0	ND< 10	ND< 0.5
	09/17/99	**24000**	**1400**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**27**
	12/27/99	**2300**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	03/22/00	**620**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	06/30/00	**1700**	**270**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**17**
	09/14/00	**5800**	**130**	ND< 0.5	ND< 0.5	ND< 0.5	**0.94**	ND< 2.0	ND< 10	**12**
	12/20/00	**19000**	**1700**	ND< 50	ND< 50	ND< 50	ND< 150	ND< 2.0	ND< 10	ND< 250
	03/22/01	**610000**	**3300**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**9**
	06/27/01	**8800**	**1800**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**6.7**
	09/21/01	**530000**	**7000**	ND< 50	ND< 50	ND< 50	ND< 50	ND< 2.0	ND< 10	ND< 50
	12/27/01	**27000**	**310**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**62**
	03/29/02	**65000**	**130**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**30**
	06/13/02	**130000**	**460**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**24**
	09/27/02	**480000**	**290**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**16**
	12/03/02	**61000**	**1800**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**10**
	03/31/03	**5000**	ND< 100	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**14**
	06/27/03	**8.1**	**360**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**20**
	09/19/03	**85**	**12**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**15**
	12/22/03	NS								
	01/17/05	Abandoned								
MW-2S	01/17/05	**1100**	**730**	ND< 0.5	ND< 0.5	**1.0**	**3.5**	ND< 2.0	ND< 10	**50**
	05/04/05	**8200**	**190**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**44**
	08/12/05	**6100**	**120**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**77**
	12/12/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**26**
	03/03/06	**5900**	**160**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**21**
	06/13/06	**8700**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**22**
	09/06/06	**11000**	**190**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**29**
	12/05/06	**18000**	ND< 50	ND< 0.5	ND< 50	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**38**
	02/28/07	**6600**	**140**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**33**
	06/12/07	**3700**	**90**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	**12**	**19**
	09/11/07	**17000**	ND< 50	ND< 2.5	ND< 2.5	ND< 2.5	ND< 0.5	ND< 10	ND< 50	**46**
	12/11/07	**16000**	ND< 50	ND< 2.5	ND< 2.5	ND< 2.5	ND< 0.5	ND< 10	ND< 50	**16**
	03/11/08	**8900**	**50**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**17**
	06/10/08	**1100**	**72**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**25**

TPHd: diesel
TPHg: gasoline
TAME: tert amyl methyl ether
TBA: tert-butyl alcohol
MTBE: methyl tert-butyl ether
ug/L: micrograms per liter
ND: not detected above laboratory reporting limit

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)	TAME (ug/L)	TBA (ug/L)	MTBE (ug/L)
MW-2M	01/17/05	**4100**	**3300**	**6.5**	**1.7**	**89**	**82.2**	ND< 2.0	ND< 10	**38**
	05/04/05	ND< 50	**610**	ND< 0.5	ND< 0.5	**16**	**10.6**	ND< 2.0	ND< 10	**32**
	08/12/05	ND< 50	**460**	ND< 0.5	ND< 0.5	**2.5**	**1.2**	ND< 2.0	ND< 10	**56**
	12/12/05	ND< 50	**410**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**28**
	03/03/06	ND< 50	**290**	ND< 0.5	ND< 0.5	**0.5**	ND< 1.0	ND< 2.0	ND< 10	**17**
	06/13/06	ND< 50	**130**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/06/06	**1900**	**330**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**22**
	12/05/06	**6100**	**340**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**37**
	02/27/07	ND< 500	**310**	ND< 0.5	ND< 0.5	**0.65**	ND< 1.0	ND< 2.0	ND< 10	**25**
	06/12/07	**350**	**290**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**14**
	09/11/07	**4900**	**220**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**14**
	12/11/07	ND< 50	**370**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**9.4**
	03/11/08	**4000**	**230**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**7.4**
	06/10/08	**2800**	**330**	ND< 0.5	ND< 0.5	ND< 0.5	**1.0**	ND< 2.0	ND< 10	**10.0**
MW-2D	01/17/05	**1800**	**1000**	**6.5**	ND< 0.5	**80**	**71**	ND< 2.0	ND< 10	**62**
	05/04/05	ND< 50	**250**	ND< 0.5	ND< 0.5	**4.6**	**1.6**	ND< 2.0	ND< 10	**72**
	08/12/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	**2.8**	**1.1**	ND< 2.0	ND< 10	**51**
	12/12/05	ND< 50	**200**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**39**
	03/03/06	ND< 50	**140**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**38**
	06/13/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**36**
	09/06/06	**1700**	**230**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**27**
	12/05/06	**3000**	**150**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**37**
	02/27/07	**1100**	**140**	ND< 0.5	ND< 0.5	**0.63**	**1.1**	ND< 2.0	ND< 10	**25**
	06/12/07	ND< 500	**140**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**19**
	09/11/07	**4600**	**120**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**15**
	12/11/07	ND< 50	**250**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**22**
	03/11/08	**3400**	**98**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**7.5**
	06/10/08	**2900**	**170**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**15**
MW-3	06/23/98	**12000**	**300**	**0.80**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**150**
	10/01/98	**6400**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	01/05/99	**5600**	ND< 100	**1.6**	**1.4**	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**110**
	03/29/99	**150**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	06/10/99	**620**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	09/17/99	**1500**	ND< **230**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**89**
	12/27/99	**58**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	03/22/00	**94**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 0.5
	06/30/00	**240**	**170**	ND< 0.5	**0.52**	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**100**
	09/14/00	**850**	**170**	**0.81**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**68**
	12/20/00	**1600**	**230**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 3.0	ND< 2.0	ND< 10	**80**
	03/22/01	**1100**	**140**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**83**
	06/27/01					NS				
	09/21/01	**3800**	ND< 100	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**45**
	12/27/01	**3100**	**340**	**1.4**	**1.1**	**10**	**3.8**	ND< 2.0	ND< 10	**45**
	03/29/02	**1500**	ND< 100	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**50**
	06/13/02	ND< 1000	**160**	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**36**
	09/27/02	ND< 1000	ND< 1000	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**43**
	12/03/02	ND< 1000	ND< 100	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 2.0	ND< 10	**41**
	03/31/03	ND< 1000	ND< 100	ND< 2.5	ND< 2.5	ND< 2.5	ND< 2.5	ND< 2.0	ND< 10	**92**
	06/27/03	**1200**	ND< 100	ND< 2.0	ND< 2.0	ND< 2.0	ND< 2.0	ND< 2.0	ND< 10	**93**
	09/19/03	ND< 1000	ND< 100	ND< 2.0	ND< 2.0	ND< 2.0	ND< 2.0	ND< 2.0	ND< 10	**65**
	12/22/03	**5700**	**190**	ND< 2.0	ND< 2.0	ND< 2.0	ND< 2.0	ND< 2.0	ND< 10	**56**

TPHd: diesel
TPHg: gasoline
TAME: tert amyl methyl ether
TBA: tert-butyl alcohol
MTBE: methyl tert-butyl ether
ug/L: micrograms per liter
ND: not detected above laboratory reporting limit

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)	TAME (ug/L)	TBA (ug/L)	MTBE (ug/L)
	01/17/05	ND< 50	**590**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**47**
	05/04/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**190**
	08/11/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**110**
	12/13/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**75**
	03/03/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**140**
	06/12/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**100**
	09/06/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**67**
	12/05/06	ND< 50	**82**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**39**
	02/27/07	**56**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**43**
	06/12/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**45**
	09/11/07	ND< 500	**60**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**27**
	12/11/07	ND< 50	**180**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**24**
	03/11/08	ND< 50	**98**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	**120**	**36**
MW-4S	01/17/05	ND< 50	**65**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	05/04/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	08/12/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	**2.2**	**5.8**	ND< 2.0	ND< 10	ND< 1.0
	12/12/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/03/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/12/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/04/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	02/26/07	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/10/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/10/07	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/09/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
MW-4D	01/17/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	05/04/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	08/12/05	ND< 50	**410**	ND< 0.5	**2.2**	**10**	**25.5**	ND< 2.0	ND< 10	ND< 1.0
	12/12/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/03/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/12/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**7.8**
	09/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/04/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	02/26/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	06/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	09/10/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/10/07	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/09/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0

TPHd: diesel
TPHg: gasoline
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ug/L: micrograms per liter
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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)	TAME (ug/L)	TBA (ug/L)	MTBE (ug/L)
MW-5S	01/17/05	ND< 50	ND< 50	ND< 0.5	**4.5**	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	05/04/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	08/11/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**5.8**
	12/12/05	ND< 50	ND< 50	**3.4**	**1.3**	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/03/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/12/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**5.4**
	12/04/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**5.8**
	02/26/07	**360**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**3.2**
	06/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**2.2**
	09/10/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**2.0**
	12/10/07	ND< 50	**140**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**2.6**
	03/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**1.1**
	06/09/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**4.2**
MW-5D	01/17/05	ND< 50	**210**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	05/04/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**10**
	08/11/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**6.4**
	12/12/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/03/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**4.7**
	06/12/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**5.0**
	09/05/06	ND< 50	ND< 50	ND< 0.5	**0.60**	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**5.3**
	12/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**1.9**
	02/28/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**1.6**
	06/12/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**2.4**
	09/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**1.2**
	12/11/07	ND< 50	**140**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**1.2**
	03/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**1.2**
	06/09/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**3.8**
MW-6S	01/17/05	**2800**	**1600**	**6.1**	ND< 0.5	**3.6**	**2.3**	ND< 2.0	ND< 10	**160**
	05/04/05	ND< 50	**750**	ND< 0.5	ND< 0.5	**3.0**	ND< 0.5	ND< 2.0	ND< 10	**160**
	08/12/05	**1300**	**1100**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**410**
	12/12/05	ND< 50	**1000**	ND< 0.5	ND< 0.5	**1.4**	ND< 1.0	ND< 2.0	ND< 10	**190**
	03/03/06	ND< 50	**940**	ND< 0.5	ND< 0.5	**4.9**	ND< 1.0	ND< 2.0	ND< 10	**60**
	06/14/06	**1300**	**650**	ND< 0.5	**1.7**	**1.9**	**2.0**	ND< 2.0	ND< 10	ND< 1.0
	09/06/06	**2400**	**750**	ND< 0.5	ND< 0.5	**0.7**	**0.5**	ND< 2.0	ND< 10	**200**
	12/05/06	**2600**	**1000**	ND< 0.5	ND< 0.5	**1.2**	ND< 1.0	ND< 2.0	ND< 10	**110**
	02/27/07	**3000**	**1100**	**0.79**	ND< 0.5	**1.1**	ND< 1.0	ND< 2.0	ND< 10	**54**
	06/12/07	**490**	**1200**	ND< 0.5	ND< 0.5	**1.6**	ND< 1.0	ND< 2.0	ND< 10	**47**
	09/11/07	**930**	**370**	ND< 0.5	ND< 0.5	**1.3**	ND< 1.0	ND< 2.0	ND< 10	**48**
	12/11/07	**5200**	**680**	**1.3**	ND< 0.5	**12.0**	**1.1**	ND< 2.0	ND< 10	**28**
	03/11/08	**770**	**1400**	**13**	**1.6**	**210**	**21**	ND< 2.0	ND< 10	**5.3**
	06/10/08	**5600**	**690**	ND< 0.5	ND< 0.5	**22**	**1.8**	ND< 2.0	ND< 10	**23**

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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)	TAME (ug/L)	TBA (ug/L)	MTBE (ug/L)
MW-6D	01/17/05	**2100**	**1200**	**10**	ND< 0.5	**1.6**	**2.2**	ND< 2.0	ND< 10	**180**
	05/04/05	ND< 50	**360**	**2**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**360**
	08/12/05	ND< 50	**480**	**2**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	**270**
	12/12/05	ND< 50	**240**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**92**
	03/03/06	ND< 50	**310**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**93**
	06/14/06	ND< 50	**130**	ND< 0.5	**3.0**	**1.1**	**2.6**	ND< 2.0	ND< 10	**69**
	09/06/06	ND< 50	**230**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**74**
	12/06/06	**1300**	**500**	**0.98**	**8.1**	**16**	**38.8**	ND< 2.0	ND< 10	**59**
	02/27/07	**470**	**150**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**48**
	06/13/07	ND< 500	**180**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**39**
	09/12/07	ND< 500	**130**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**28**
	12/12/07	ND< 50	**250**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**19**
	03/12/08	ND< 50	**110**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**24**
	06/10/08	ND< 50	**140**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**31**
MW-7S	01/17/05	ND< 50	**12000**	**10**	**89**	**590**	**1670**	ND< 2.0	ND< 10	ND< 1.0
	05/04/05	**520**	**1600**	ND< 0.5	ND< 0.5	**31**	**18.4**	ND< 2.0	ND< 10	ND< 1.0
	08/12/05	ND< 50	**660**	ND< 0.5	ND< 0.5	**5.5**	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	12/12/05	ND< 50	**610**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/03/06	ND< 50	**630**	**1.1**	**9**	**31**	**78**	ND< 2.0	ND< 10	ND< 1.0
	06/14/06	ND< 50	**430**	ND< 0.5	ND< 0.5	**6.1**	**14.5**	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/04/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	02/26/07	ND< 500	**55**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/11/07	ND< 500	**64**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/10/07	ND< 500	**76**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/10/07	ND< 50	**170**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/10/08	ND< 50	**1500**	**13**	**16**	**25**	**24.5**	ND< 2.0	ND< 10	ND< 1.0
	06/09/08	ND< 50	**1300**	**3.6**	**2.4**	**5.8**	**2.2**	ND< 2.0	ND< 10	ND< 1.0
MW-7D	01/17/05	ND< 50	**23000**	**350**	**1000**	**1800**	**5200**	ND< 2.0	ND< 10	ND< 1.0
	05/04/05	NS								
	08/12/05	**37**	**83000**	**550**	**2200**	**4400**	**10600**	ND< 2.0	ND< 10	ND< 50
	12/12/05	**150000**	**1300000**	**640**	**3100**	**21000**	**54800**	ND< 2.0	ND< 10	ND< 50
	03/03/06	**45000**	**71000**	**420**	**2400**	**4400**	**11300**	ND< 2.0	ND< 10	ND< 1.0
	06/14/06	ND< 50	**160000**	**310**	**2400**	**4500**	**9800**	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	**22000**	**71000**	**360**	**8600**	**33000**	**87000**	ND< 2.0	ND< 10	ND< 1.0
	12/06/06	**12000**	**58000**	**160**	**1300**	**3900**	**5800**	ND< 2.0	ND< 10	ND< 1.0
	02/28/07	**790**	**6800**	**29**	**51**	**460**	**491**	ND< 2.0	ND< 10	ND< 1.0
	06/13/07	**23000**	**100000**	**270**	**950**	**4000**	**950**	ND< 2.0	ND< 10	ND< 1.0
	09/12/07	**3500**	**15000**	**72**	**340**	**1300**	**1940**	ND< 2.0	ND< 10	ND< 1.0
	12/12/07	**2500**	**19000**	**64**	**160**	**1100**	**2000**	ND< 2.0	ND< 10	ND< 1.0
	03/12/08	**3100**	**32000**	**64**	**250**	**1800**	**2800**	ND< 2.0	ND< 10	ND< 1.0
	06/11/08	**4000**	**17000**	**67**	**100**	**610**	**610**	ND< 2.0	ND< 10	ND< 1.0

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MW-8	01/17/05	ND< 50	120	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	05/04/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	08/12/05	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	ND< 1.0
	12/12/05	830	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/03/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/12/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	ND< 50	ND< 50	ND< 0.5	3.3	ND< 0.5	5.5	ND< 2.0	ND< 10	ND< 1.0
	12/04/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	02/26/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/10/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/10/07	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/10/08	ND< 50	54	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/09/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
MW-9S	05/05/06	ND< 50	1300	8.6	24	40	29.8	ND< 2.0	ND< 10	ND< 1.0
	06/14/06	ND< 50	330	ND< 0.5	ND< 0.5	3.0	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	ND< 50	240	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/05/06	ND< 50	190	ND< 0.5	ND< 0.5	0.76	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	02/27/07	ND< 500	130	0.79	0.58	8.4	1.0	ND< 2.0	ND< 10	ND< 1.0
	06/12/07	ND< 500	210	0.76	ND< 0.5	5.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/11/07	ND< 500	52	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/11/07	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/11/08	3000	10000	4.6	20	12	1800	ND< 2.0	ND< 10	ND< 1.0
	06/10/08	2700	1400	0.62	ND< 0.5	1.1	42	ND< 2.0	ND< 10	ND< 1.0
MW-9D	05/05/06	13	88000	5500	15000	4200	15000	ND< 2.0	ND< 10	ND< 1.0
	06/14/06	ND< 50	76000	3200	13000	2700	9200	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	5400	58000	1800	7400	2400	8000	ND< 2.0	ND< 10	ND< 1.0
	12/06/06	9100	170000	1800	6700	3400	7400	ND< 2.0	ND< 10	ND< 1.0
	02/28/07	4500	210000	1900	6200	2400	9000	ND< 2.0	ND< 10	ND< 1.0
	06/13/07	11000	42000	1600	5100	2600	2131	13	39	ND< 1.0
	09/12/07	4400	36000	990	5700	2800	4600	ND< 2.0	30	ND< 1.0
	12/12/07	3400	57000	880	5800	2800	9100	ND< 2.0	ND< 10	ND< 1.0
	03/12/08	6600	44000	510	3700	1500	8500	ND< 2.0	ND< 10	ND< 1.0
	06/11/08	6600	39000	220	530	750	2070	ND< 2.0	ND< 10	ND< 1.0
MW-9LF	05/05/06	ND< 50	5400	12	17	190	150	ND< 2.0	ND< 10	ND< 1.0
	06/14/06	ND< 50	1800	13	17	30	36	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	ND< 50	1100	58	23	31	58	ND< 2.0	ND< 10	ND< 1.0
	12/05/06	290	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	31
	02/27/07	ND< 500	530	39	5	31	25.4	ND< 2.0	ND< 10	ND< 1.0
	06/12/07	ND< 500	280	14	0.92	3.8	4.5	ND< 2.0	ND< 10	ND< 1.0
	09/11/07	ND< 500	320	2.5	0.59	ND< 0.5	1.94	ND< 2.0	ND< 10	ND< 1.0
	12/11/07	ND< 50	310	ND< 0.5	0.89	ND< 0.5	2.22	ND< 2.0	ND< 10	ND< 1.0
	03/11/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/11/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0

TPHd: diesel
TPHg: gasoline
TAME: tert amyl methyl ether
TBA: tert-butyl alcohol
MTBE: methyl tert-butyl ether
ug/L: micrograms per liter
ND: not detected above laboratory reporting limit

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)	TAME (ug/L)	TBA (ug/L)	MTBE (ug/L)
MW-10S	05/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/13/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	ND< 50	93	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	02/26/07	ND< 500	54	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/12/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/11/07	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/11/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
MW-10D	05/05/06	ND< 50	5900	24	9	260	23	ND< 2.0	ND< 10	ND< 1.0
	06/13/06	ND< 50	2300	7.6	2.4	66	6.6	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	ND< 50	2400	3.9	2.0	54	11.89	ND< 2.0	ND< 10	ND< 1.0
	12/06/06	ND< 50	1600	2.5	1.0	28	4	ND< 2.0	ND< 10	ND< 1.0
	02/27/07	200	850	2.7	0.90	28	2.3	ND< 2.0	ND< 10	ND< 1.0
	06/12/07	ND< 500	830	1.0	ND< 0.5	14	2.0	ND< 2.0	ND< 10	ND< 1.0
	09/11/07	ND< 500	780	ND< 0.5	ND< 0.5	1.7	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/11/07	ND< 50	1300	ND< 0.5	ND< 0.5	0.61	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/11/08	ND< 50	590	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/10/08	ND< 50	590	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
MW-10LF	05/05/06	ND< 50	860	ND< 0.5	11	ND< 0.5	4.6	ND< 2.0	ND< 10	ND< 1.0
	06/13/06	ND< 50	780	2.0	2.4	1.1	4.2	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	ND< 50	780	1.7	1.6	1.7	7.8	ND< 2.0	ND< 10	ND< 1.0
	12/05/06	190	610	0.5	0.56	ND< 0.5	1.5	ND< 2.0	ND< 10	3.7
	02/27/07	ND< 500	580	1.0	1.1	0.51	3.6	ND< 2.0	ND< 10	ND< 1.0
	06/12/07	260	440	0.5	0.7	ND< 0.5	2.5	ND< 2.0	ND< 10	2.0
	09/11/07	ND< 500	130	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	3.0
	12/11/07	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	1.6
	03/11/08	ND< 50	210	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	1.2
MW-11S	05/05/06	ND< 50	11000	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	8.4
	06/14/06	ND< 50	730	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/06/06	3300	1400	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5	ND< 2.0	ND< 10	4.8
	12/06/06	1700	130	0.71	ND< 0.5	0.64	0.51	ND< 2.0	ND< 10	11
	02/27/07	540	300	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	4.3
	06/12/07	ND< 500	1800	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	4.3
	09/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	2.8
	12/11/07	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	1.5
	03/11/08	ND< 50	ND< 50	1.0	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	2.9
	06/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	2.4
MW-11D	05/05/06	ND< 50	13000	20	20	26	77	ND< 2.0	ND< 10	47
	06/14/06	18000	6500	12	4.4	11	22	ND< 2.0	ND< 10	26
	09/06/06	210000	33000	25	30	28	97	ND< 2.0	ND< 10	31
	12/06/06	190000	2100	15	23	29	101	ND< 2.0	ND< 10	19
	02/28/07	13000	7400	8.4	16	17	54	ND< 2.0	ND< 10	18
	06/13/07	6700	11000	6.2	7	13	39	ND< 2.0	ND< 10	15
	09/12/07	21000	3000	3.6	4.0	7.9	22	ND< 2.0	ND< 10	8.5
	12/12/07	48000	7700	3.0	3.0	11	30	ND< 2.0	ND< 10	7.0
	03/12/08	63000	37000	2.2	0.82	7.0	20.4	ND< 2.0	21	8.9
	06/10/08	60000	2700	2.5	0.74	6.2	15.4	ND< 2.0	ND< 10	13

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ug/L: micrograms per liter
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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)	TAME (ug/L)	TBA (ug/L)	MTBE (ug/L)
MW-11LF	05/05/06	ND< 50	**1300**	ND< 0.5	ND< 0.5	ND< 0.5	**3**	ND< 2.0	ND< 10	**250**
	06/14/06	**1100**	**99**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**240**
	09/06/06	**5300**	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**160**
	12/04/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**240**
	02/27/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**110**
	06/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**110**
	09/10/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	**13**	**190**
	12/10/07	ND< 50	**120**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**86**
	03/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	**30**	**92**
	06/09/08	ND< 50	**120**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	**150**
MW-12S	05/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/13/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/07/06	ND< 50	**81**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	**210**	ND< 1.0
	02/27/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	**19**	ND< 1.0
	09/10/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/10/07	ND< 50	**120**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/09/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
MW-12D	05/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/13/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/06/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/04/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	02/28/07	ND< 500	**51**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/10/07	ND< 50	**140**	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/09/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
MW-12LF	05/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/13/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/06/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/05/06	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	02/26/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	09/11/07	ND< 500	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	12/11/07	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	03/10/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0
	06/09/08	ND< 50	ND< 50	ND< 0.5	ND< 0.5	ND< 0.5	ND< 1.0	ND< 2.0	ND< 10	ND< 1.0

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