

May 14, 2012

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By Alameda County Environmental Health at 3:41 pm, May 16, 2013

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

Subject: Covenant and Environmental Restriction on Property at the Mission Valley Rock and Asphalt Plant Located at 7999 Athenour Way in Sunol, California Alameda County Case No. RO0000207 and GeoTracker Global ID T0600102092

Dear Mr. Wickham:

The attached Covenant and Environmental Restriction on Property was prepared by ARCADIS U.S., Inc. (ARCADIS) on behalf of Lehigh Hanson West Region ("Hanson") for the asphalt plant area of the Hanson Aggregates Former Mission Valley Rock Facility, located at 7999 Athenour Way, Sunol, California ("the Site"). The covenant was prepared in response to the Alameda County Environmental Heath Services (ACEH) letter to Hanson dated March 13, 2013 and presents the administrative controls for the residual petroleum-affected soil and groundwater.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

If you have any questions or comments concerning this report, please call Tina Lau, Environmental Manager, at (925) 244-6584 or Ron Goloubow of ARCADIS at (510) 596-9550.

Sincerely,

Mike Roth

Vice President/General Manager Lehigh Hanson West Region

al. 1- Lit

Attachment

Recording Requested By:

Hanson Aggregates Mid-Pacific, Inc. 12667 Alcosta Blvd Suite 400 San Ramon, CA 94583

When Recorded, Mail To:

Ariu Levi, Director Alameda County Environmental Health Services 1131 Harbor Bay Parkway Alameda, California 94502

COVENANT AND ENVIRONMENTAL RESTRICTION ON PROPERTY

MISSION VALLEY ROCK AND ASPHALT PLANT 7999 ATHENOUR WAY SUNOL, CALIFORNIA

This Covenant and Environmental Restriction on Property (this "Covenant") is made as of the
day of, 20 by Hanson Aggregates Mid-Pacific, Inc. ("Covenantor") who is
the Owner of record of that certain property situated at 7999 Athenour Way (the Mission Valley
Rock and Asphalt Plant), in the City of Sunol, County of Alameda, State of California. A
portion of the asphalt plant at the Mission Valley Rock and Asphalt Plant, more particularly
illustrated in Exhibit A attached hereto, and incorporated herein by this reference (such portion
hereinafter referred to as the "Burdened Property"), for the benefit of the Alameda County
Environmental Health Services (the "County"), with reference to the following facts:

A. The soil and groundwater underlying portions of the Burdened Property contains hazardous materials and is subject to the Soil and Groundwater Site Management Plan (SMP). The SMP is included as Exhibit B attached hereto and incorporated herein by this reference and provides the following information regarding the Burdened Property:

- 1. Operational background
- 2. Summary of remedial actions and current environmental conditions
- 3. Summary of human health risks
- 4. Institutional controls
- 5. Specific controls on the use of groundwater
- 6. Requirement for ACEH notification and approval of subsurface activities that will encounter residual contamination
- 7. Requirement for a health and safety plan for all subsurface work

- 8. Protocols for excavation, grading and management of excavated materials
- 9. Periodic inspection
- 10. Contingency plan for discovery of unknown features of environmental concern
- B. <u>Contamination of the Burdened Property</u>. Soil at the Burdened Property was contaminated by releases of fuel from underground storage tanks (USTs) and/or the operation of the Burdened Property as an asphalt batch plant that was owned and operated by the Mission Valley Rock Company, since the 1950s. These operations resulted in contamination of soil and groundwater with organic chemicals including diesel-range total petroleum hydrocarbons (TPHd) and methyl-tert-butyl ether (MTBE) detected in soil and groundwater samples which constitute hazardous materials as that term is defined in Health & Safety Code Section 25260.

As described in detail in the SMP, a successful pilot test of air sparging was conducted pursuant to the request of the Alameda County Health Services (ACEH). A full-scale air injection system was then installed in March 2009 and operated from April 6, 2009 to July 15, 2010 to enhance the natural biodegradation in the vicinity of well cluster MW-9. The results of groundwater monitoring conducted until September 2010 indicated that the air injection system had been effective in reducing concentrations of petroleum constituents in groundwater and that residual petroleum constituents in groundwater are present within the various vertical portions of the aquifer north of the asphalt plant, in the vicinity of the cluster of former gasoline and diesel USTs. Subsequent further investigations found residual highly weathered diesel in light non-aqueous phase liquid (LNAPL) in the subsurface. The results of investigation suggested the nature of the LNAPL is a highly-weathered diesel with limited transmissivity (i.e., not mobile) and is expected to further decrease with time and remain where it is currently located. The former USTs are considered the source of these residual concentrations and there is no indication of an ongoing source of contamination in the subsurface. Furthermore, the site characterization data indicate that the residual contamination is degrading by natural attenuation mechanisms.

C. Exposure Pathways. The residual concentrations of contaminants addressed in this Covenant are present in soil and groundwater in the subsurface at the Burdened Property. Without the mitigation measures which have been performed at the Burdened Property and following the procedures provided in the SMP, exposure to these contaminants could take place via ingestion, inhalation, or dermal contact with soil; inhalation of ambient air; and ingestion, inhalation, or dermal contact with groundwater. Releases from the former USTs and historical operations have resulted in residual concentrations of petroleum constituents in soil, soil gas, and groundwater that could result in a risk to human health. Potential receptors include workers and visitors, including contractors.

The risk of public exposure to the contaminants has been substantially lessened by the remediation and controls described herein and the SMP.

D. <u>Adjacent Land Uses and Population Potentially Affected</u>. The Burdened Property is used for commercial and industrial land uses.

- E. Full and voluntary disclosure to the County of the presence of hazardous materials on the Burdened Property has been made and extensive sampling of the Burdened Property has been conducted.
- F. Covenantor desires and intends that in order to benefit the County, and to protect the present and future public health and safety, the Burdened Property shall be used in such a manner as to avoid potential harm to persons or property that may result from hazardous materials that may have been deposited on portions of the Burdened Property.

ARTICLE I GENERAL PROVISIONS

- 1.1 Provisions to Run with the Land. This Covenant sets forth protective provisions, covenants, conditions and restrictions (collectively referred to as "Restrictions") upon and subject to which the Burdened Property and every portion thereof shall be improved, held, used, occupied, leased, sold, hypothecated, encumbered, and/or conveyed. The restrictions set forth in Article III are reasonably necessary to protect present and future human health and safety or the environment as a result of the presence on the land of hazardous materials. Each and all of the Restrictions shall run with the land, and pass with each and every portion of the Burdened Property, and shall apply to, inure to the benefit of, and bind the respective successors in interest thereof, for the benefit of the County and all Owners and Occupants. Each and all of the Restrictions are imposed upon the entire Burdened Property unless expressly stated as applicable to a specific portion of the Burdened Property. Each and all of the Restrictions run with the land pursuant to section 1471 of the Civil Code. Each and all of the Restrictions are enforceable by the County.
- 1.2 <u>Concurrence of Owners and Lessees Presumed</u>. All purchasers, lessees, or possessors of any portion of the Burdened Property shall be deemed by their purchase, leasing, or possession of such Burdened Property, to be in accord with the foregoing and to agree for and among themselves, their heirs, successors, and assignees, and the agents, employees, and lessees of such owners, heirs, successors, and assignees, that the Restrictions as herein established must be adhered to for the benefit of the County and the Owners and Occupants of the Burdened Property and that the interest of the Owners and Occupants of the Burdened Property shall be subject to the Restrictions contained herein.
- 1.3 <u>Incorporation into Deeds and Leases</u>. Covenantor desires and covenants that the Restrictions set out herein shall be incorporated in and attached to each and all deeds and leases of any portion of the Burdened Property. Recordation of this Covenant shall be deemed binding on all successors, assigns, and lessees, regardless of whether a copy of this Covenant and Agreement has been attached to or incorporated into any given deed or lease.
- 1.4 <u>Purpose</u>. It is the purpose of this instrument to convey to the County real property rights, which will run with the land, to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

ARTICLE II DEFINITIONS

- 2.1 <u>County</u>. "County" shall mean the Alameda County Environmental Health Services and shall include its successor agencies, if any.
- 2.2 <u>Improvements</u>. "Improvements" shall mean all buildings, roads, driveways, regradings, and paved parking areas, constructed or placed upon any portion of the Burdened Property.
- 2.3 Occupants. "Occupants" shall mean Owners and those persons entitled by ownership, leasehold, or other legal relationship to the exclusive right to use and/or occupy all or any portion of the Burdened Property.
- 2.4 Owner or Owners. "Owner" or "Owners" shall mean the Covenantor and/or its successors in interest, who hold title to all or any portion of the Burdened Property.

ARTICLE III DEVELOPMENT, USE AND CONVEYANCE OF THE BURDENED PROPERTY

3.1 <u>Restrictions on Development and Use</u>. Covenantor promises to restrict the use of the Burdened Property as follows:

[INCLUDE THE FOLLOWING PROVISIONS, A-I, IF APPROPRIATE]:

- a. Development of the Burdened Property shall be restricted to industrial, commercial or office space;
 - b. No residence for human habitation shall be permitted on the Burdened Property;
 - c. No hospitals shall be permitted on the Burdened Property;
- d. No schools for persons under 21 years of age shall be permitted on the Burdened Property;
- e. No day care centers for children or day care centers for Senior Citizens shall be permitted on the Burdened Property;
- f. No Owners or Occupants of the Property or any portion thereof shall conduct any excavation work on the Property, unless expressly permitted in writing by the County or in accordance with the SMP. Any contaminated soils brought to the surface by grading, excavation, trenching, or backfilling shall be managed by Covenantor or his agent, or successor owners or occupants, in in accordance with the SMP and all applicable provisions of local, state and federal law;

- g. No Owners or Occupants of the Property or any portion thereof shall drill, bore, otherwise construct, or use a well for the purpose of extracting water for human consumption, unless expressly permitted in writing by the County; or in accordance with the SMP.
- h. The Covenantor agrees that the County, and/or any persons acting pursuant to County cleanup orders, shall have reasonable access to the Burdened Property for the purposes of inspection, surveillance, maintenance, or monitoring, as provided for in Division 7 of the Water Code.
- i. No Owner or Occupant of the Burdened Property shall act in any manner that will aggravate or contribute to the existing environmental conditions of the Burdened Property. All use and development of the Burdened Property shall preserve the integrity of any capped areas.
- j. No Owner or User of the Burdened Property shall grow fruits or vegetables for consumption using site soils. Gardening on the Burdened Property shall only be permitted using imported soil within raised beds that do not allow direct contact between plant roots and the underlying site soil.
- 3.2 <u>Enforcement</u>. Failure of an Owner or Occupant to comply with any of the restrictions, as set forth in paragraph 3.1, shall be grounds for the County, by reason of this Covenant, to have the authority to require that the Owner modify or remove any Improvements constructed in violation of that paragraph. Violation of the Covenant shall be grounds for the County to file civil actions against the Owner as provided by law.
- 3.3 <u>Notice in Agreements</u>. After the date of recordation hereof, all Owners and Occupants shall execute a written instrument which shall accompany all purchase agreements or leases relating to the property. Any such instrument shall contain the following statement:

The land described herein contains	s hazardous materials in	soils and in the
ground water under the property, and	is subject to a deed restr	riction dated as
of, 20, and red	corded on	, 20, in
the Official Records of	County, California, as	Document No.
, which Covenant and I	Restriction imposes cert	ain covenants
conditions, and restrictions on usage	of the property describe	d herein. This
statement is not a declaration that a ha	zard exists.	

ARTICLE IV VARIANCE AND TERMINATION

- 4.1 <u>Variance</u>. Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or any portion thereof may apply to the County for a written variance from the provisions of this Covenant.
- 4.2 <u>Termination</u>. Any Owner or, with the Owner's consent, any Occupant of the Burdened Property or a portion thereof may apply to the County for a termination of the Restrictions as they apply to all or any portion of the Burdened Property.
- 4.3 <u>Term</u>. Unless terminated in accordance with paragraph 4.2 above, by law or otherwise, this Covenant shall continue in effect in perpetuity.

ARTICLE V MISCELLANEOUS

- 5.1 <u>No Dedication Intended</u>. Nothing set forth herein shall be construed to be a gift or dedication, or offer of a gift or dedication, of the Burdened Property or any portion thereof to the general public.
- 5.2 <u>Notices</u>. Whenever any person gives or serves any notice, demand, or other communication with respect to this Covenant, each such notice, demand, or other communication shall be in writing and shall be deemed effective (1) when delivered, if personally delivered to the person being served or official of a government agency being served, or (2) three (3) business days after deposit in the mail if mailed by United States mail, postage paid certified, return receipt requested:

If To: "Covenantor" Environmental Manager Lehigh Hanson West Region 12667 Alcosta Blvd Suite 400 San Ramon, CA 94583

If To: "County"

Alameda County Environmental Health Services

Attention: Director

1131 Harbor Bay Parkway Alameda, California 94502

5.3 <u>Partial Invalidity</u>. If any portion of the Restrictions or terms set forth herein is determined to be invalid for any reason, the remaining portion shall remain in full force and effect as if such

STATE OF CALIFORNIA, COUNTY OF		
Onpersonally appear	, before me	, Notary Public,
subscribed to the in his/her/their a	e within instrument and acknowledged uthorized capacity(ies), and that by hi	e to be the person(s) whose name(s) is /ared to me that he/she/they executed the same (s/her/their signature(s) on the instrument erson(s) acted, executed the instrument.
-	er PENALTY OF PERJURY under the caph is true and correct.	e laws of the State of California that the
WITNESS n	ny hand and official seal.	
Notary Publi	c in and for said State	
STATE OF	CALIFORNIA, COUNTY OF	
On personally appea	, before me	, Notary Public,
subscribed to the in his/her/their a	e within instrument and acknowledged uthorized capacity(ies), and that by hi	e to be the person(s) whose name(s) is /are d to me that he/she/they executed the same is/her/their signature(s) on the instrument erson(s) acted, executed the instrument.
•	er PENALTY OF PERJURY under the caph is true and correct.	ne laws of the State of California that the
WITNESS n	ny hand and official seal.	
Notary Publi	c in and for said	

EXHIBIT A

SITE PLAN



EXHIBIT B

SOIL AND GROUNDWATER SITE MANAGEMENT PLAN



May 14, 2012

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

Subject: Soil and Groundwater Site Management Plan at the Mission Valley Rock and Asphalt Plant Located at 7999 Athenour Way in Sunol, California Alameda County Case No. RO0000207 and GeoTracker Global ID T0600102092

Dear Mr. Wickham:

The attached Soil and Groundwater Site Management Plan was prepared by ARCADIS U.S., Inc. (ARCADIS) on behalf of Lehigh Hanson West Region ("Hanson") for the asphalt plant area of the Hanson Aggregates Former Mission Valley Rock Facility, located at 7999 Athenour Way, Sunol, California ("the Site"). The site management plan was prepared in response to the Alameda County Environmental Heath Services (ACEH) letter to Hanson dated March 13, 2013 and presents the management processes for the residual petroleum-affected soil and groundwater.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

If you have any questions or comments concerning this report, please call Tina Lau, Environmental Manager, at (925) 244-6584 or Ron Goloubow of ARCADIS at (510) 596-9550.

Sincerely,

Mike Roth

Al. 1- 128

Vice President/General Manager Lehigh Hanson West Region

Attachment



Lehigh Hanson West Region

Soil and Groundwater Site Management Plan

Hanson Aggregates Mission Valley Rock Facility, 7999 Athenour Way Sunol, Alameda County, California (SLIC Case #RO0000207 and GeoTracker ID T0600102092)

May 14, 2013





Caitlin Bell, P.E. Staff Environmental Engineer

Ron Goloubow, P.G. Principal Geologist

California Professional Geologist (8655)

Soil and Groundwater Site Management Plan

Mission Valley Rock and Asphalt Plant, 7999 Athenour Way, Sunol, California

Prepared for:

Lehigh Hanson West Region 12667 Alcosta Boulevard, Suite 400 San Ramon, California 94583

Prepared by:
ARCADIS U.S., Inc.
2000 Powell Street, 7th Floor
Emeryville, California 94608
Tel 510.652.4500
Fax 510.652.4906
www.arcadis-us.com

Our Ref.:

EM009480.0016

Date:

May 14, 2013

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Appendix A Historical Soil Data



Mission Valley Rock and Asphalt Plant 7999 Athenour Way, Sunol, California

1. Introduction

On behalf of Lehigh Hanson West Region (Hanson), ARCADIS U.S., Inc. (ARCADIS) is submitting this Soil and Groundwater Site Management Plan (SMP) in response to comments received from Alameda County Environmental Health Services (ACEH) in a letter dated March 13, 2013 regarding the report entitled "Investigation to Assess Non-Aqueous Phase Liquid", dated February 1, 2013 (ARCADIS 2013), that was prepared for the Mission Valley Rock and Asphalt Plant located at 7999 Athenour Way in Sunol, California (Figure 1). The portion of the facility that is subject to the SMP (the Site) is illustrated on Figure 2. This report includes the following information, per the request of the ACEH in the letter dated March 13, 2013:

- 1. Site background
- 2. Summary of remedial actions and current environmental conditions
- 3. Summary of human health risks
- 4. Institutional controls
- 5. Specific controls on the use of groundwater at the Site
- 6. Requirement for ACEH notification and approval of subsurface activities that will encounter residual contamination
- 7. Requirement for a health and safety plan for all subsurface work
- 8. Protocols for excavation, grading, and management of excavated materials
- 9. Periodic inspection
- 10. Contingency plan for discovery of unknown features of environmental concern

The objective of this SMP is to provide a mechanism for continued protection of the health and safety of future Site workers and visitors during and following site construction and/or mining activities that might occur within the general area (Figure 2) where past unauthorized releases of liquid fuel hydrocarbons (gasoline and diesel) occurred, were investigated, and were remediated; residual fuel hydrocarbons in soil and groundwater.

1.1. Soil and Groundwater Site Management Plan Organization

The remainder of this SMP is organized as follows:



Mission Valley Rock and Asphalt Plant 7999 Athenour Way, Sunol, California

- Section 2 provides a summary of the Site background, geology, hydrogeology, environmental conditions, and historical investigations and remedial actions.
- Section 3 provides a review of the human health risks at the Site.
- Section 4 provides the summary of the institutional controls being employed at the Site.
- Section 5 is the management plan for soil and groundwater including notification requirements, health and safety considerations, groundwater use controls, guidance for soil management, inspection requirements, contingency plan for discovery of unknown features of environmental concern, record keeping requirements, and availability of the SMP.
- Section 6 provides cited references.

2. Site Background

The Site is located within the 588-acre Mission Valley Rock Facility previously owned by Mission Valley Rock (MVR) Company since the 1950s. Hanson purchased the property in early 2005 but retained the business and legal entity of MVR. The facility is currently operated as a sand and gravel quarry with an asphalt manufacturing facility and a ready mix concrete plant. Additionally, various areas throughout the property are leased for industrial, agricultural, and storage purposes.

2.1. Geology and Hydrogeology

Sediments beneath the Site consist of approximately 5 to 20 feet of relatively low-permeability silts, clays, and clayey gravels overlying approximately 20 to 30 feet of relatively permeable fine- to coarse-grained gravels, that are considered to be the predominant water-bearing stratum. The Livermore Formation encountered at approximately 30 to 40 feet below ground surface (bgs) underlies these shallower water-bearing strata and appears to be somewhat less permeable than the overlying strata due to increased fines content.

The depth to groundwater beneath the Site typically ranges from 2 to 6 feet bgs. Groundwater flow conditions in the vicinity of the Site are influenced by low-permeability features, such as the former gravel pits filled with relatively less permeable, finer-grained sediment, and by groundwater removal from adjacent former



Mission Valley Rock and Asphalt Plant 7999 Athenour Way, Sunol, California

mining pits. The local flow direction generally has been to the south, southeast, and east, as measured in site groundwater monitoring wells since approximately 1998 (Figures 3 through 5). Historically, the groundwater table likely fluctuated significantly as nearby aggregate mining pits were advanced, dewatered, and then filled with water and silt.

2.2. Environmental Conditions and Chemicals of Concern

The asphalt plant has been in operation since approximately 1980. Operation from 1980 to 1996 included two 10,000-gallon diesel fuel underground storage tanks (USTs) and one 2,000-gallon gasoline UST used to fuel company vehicles (Figure 2), all of which were removed in June 1996.

A fourth UST (10,000-gallon diesel; designated "D-4") was located in the southeastern portion of the Site and apparently was partially buried (Figure 2). UST D-4 reportedly was abandoned and removed and is not believed to have released significant quantities of petroleum hydrocarbons to the environment. A fifth UST (diesel, approximately 8,000 to 10,000 gallons) may have been located in the southern portion of the Site, approximately beneath the two existing 25,000-gallon asphalt cement aboveground storage tanks (ASTs). Per an unverified account of a former Site worker, this fifth UST was used for a few years before being abandoned in place (likely filled with concrete) during the 1970s, before the asphalt plant was built. No other USTs or ASTs are reported to have existed at the Site since approximately 1970. The chemicals of concern are those related to diesel and gasoline stored in the area shown in Figure 2.The existing 25,000-gallon ASTs contain asphalt cement and are not considered a potential source of the diesel-range organic compounds that has been detected in groundwater samples collected the Site (Figure 2).

2.3. Investigations and Remedial Activities

Remedial actions were initiated at the Site when the two 10,000-gallon diesel fuel USTs and one 2,000-gallon gasoline UST were removed in June 1996 by Tank Protect Engineering (1997). Impacted soil and groundwater were found during the UST removal. The USTs were found to be in good condition with no holes evident, although a ¼-inch-diameter hole was observed in one of the fuel lines. Several subsurface investigations have been completed by past consultants from 1996 through the present in the vicinity of the asphalt plant (Tank Protect Engineering 1997).

Several investigations have been completed at the Site since 1996. The scope of these investigations included the analysis of soil and grab groundwater samples collected



Mission Valley Rock and Asphalt Plant 7999 Athenour Way, Sunol, California

during the advancement of approximately 18 soil borings, and the installation and monitoring of 27 groundwater monitoring wells (currently there are 26 groundwater monitoring wells; former well MW-2 was abandoned in 2005). Groundwater monitoring wells MW-1 through MW-8 were installed as single, double, or triple completion wells where one or more wells are completed in a single boring. Well clusters MW-9 through MW-12 were installed during April and May 2006 as groups of single completion wells with well screens at three different depths. Groundwater monitoring wells at the Site are designated based on their well screen depths as shallow ("S", screened approximately from 5 to 10 feet 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). A summary of the construction details for each groundwater monitoring well installed, including latitudinal and longitudinal location of each well or well cluster, is included for ease of future identification of the areas of residual soil and groundwater impacts (Table 1).

The soil data collected in the vicinity of the asphalt plant indicate the presence of low concentrations (less than 1,400 milligrams per kilogram [mg/kg]) of petroleum-related constituents, specifically diesel-range total petroleum hydrocarbons (TPHd), near the former USTs (Figure 6 and Appendix A). Residual soil impacts are located in similar areas to residual groundwater impacts, as discussed below.

2.3.1.Remedial Action

Based on the results of previous investigations and groundwater monitoring conducted at the Site, ACEH concurred with LFR Inc. (LFR) in an April 27, 2007 letter that no additional characterization investigations are necessary for this Site. ACEH requested that a scope of work be submitted to implement pilot testing of the LFR proposed remedial alternative for affected groundwater in the vicinity of well cluster MW-9 (ACEH 2007a). LFR submitted a work plan on August 3, 2007 describing the scope of work to perform a pilot study to test the effectiveness of injecting air to enhance the natural biodegradation in the vicinity of well cluster MW-9 (LFR 2007b). The pilot test work plan was approved by ACEH on August 30, 2007 (ACEH 2007b), and LFR conducted the pilot test in January and February 2008.

As described in the Air Sparge Pilot Test Completion Report (LFR 2008a), results of the pilot test indicated that effective delivery of oxygen into groundwater to approximately 45 feet bgs (into the "S", "D," and "LF" groundwater depth intervals) can be achieved using a conventional air injection approach. Increases in microbial populations, oxidation-reduction potential (ORP), and dissolved oxygen (DO) concentrations, and decreases in total petroleum hydrocarbons (TPH) and TPH-related



Mission Valley Rock and Asphalt Plant 7999 Athenour Way, Sunol, California

compound concentrations observed during and/or after the pilot test indicated that oxygen injection created conditions that enhanced biodegradation in the source area.

Based on the successful results of the pilot test, LFR submitted a work plan on October 3, 2008 (LFR 2008b) proposing the adoption of air injection as the remedial approach in the vicinity of monitoring well MW-9 and adoption of a monitored natural attenuation (MNA) approach for the remainder of affected groundwater. MNA was proposed as an effective remedial approach because historical groundwater data indicated attenuation mechanisms were effective at stabilizing the migration of the affected groundwater and resulted in decreasing trends in the majority of the plume. These remedial approaches were approved by ACEH in a letter dated October 24, 2008 (ACEH 2008).

A full-scale air injection system was installed in March 2009. The air injection system consisted of an air compressor and associated piping to inject compressed air through a series of regulators, filters, valves, flow meters, hoses, and eventually through the screened intervals of injection wells OXY-1D and OXY-1LF. These two wells were constructed with wells screens located somewhat deeper than well screens for wells MW-9D and MW-9LF, respectively. The air injection system was started on April 6, 2009 and operated until July 15, 2010.

2.3.1. Groundwater Monitoring

As requested by ACEH, groundwater monitoring of select wells located in the vicinity of the air injection system was conducted on a quarterly basis to monitor the performance of the air injection system. Semi-annual groundwater monitoring of all Site wells was conducted until September 2010. Based on the results of the periodic groundwater monitoring it was concluded that the location of residual petroleum constituents in groundwater within the various vertical portions of the aquifer is generally located north of the asphalt plant, in the vicinity of the cluster of former gasoline and diesel USTs (Figures 7 through 9).

Light non-aqueous phase liquid (LNAPL) was measured in groundwater monitoring wells MW-2, MW-2S, MW-2D, MW-3, MW-9D, and MW-11D (ARCADIS 2011; ARCADIS 2012; ARCADIS 2013). LNAPL thicknesses in those wells ranged from a non-measureable sheen (less than 0.01 foot) to approximately 4 feet (well MW-2 in January 1999). However, data collected through 2010 indicated LNAPL thicknesses decreased significantly over time, and an appreciable measurable amount of LNAPL had not been measured in any wells at the Site between 2002 and 2010 (ARCADIS 2011).



Mission Valley Rock and Asphalt Plant 7999 Athenour Way, Sunol, California

In response to comments provided by ACEH in a June 21, 2012 letter (and as part of the regulatory case closure process) a water level elevation survey was conducted at the Site in May 2012 (ARCADIS 2012). During that water level elevation survey, approximately 0.61-foot of LNAPL was measured in well MW-11D. In addition, during two previous water level measurement events on December 24, 2010 and September 27, 2010 a "petroleum hydrocarbon-like liquid," was observed on the water level probe; however, LNAPL thickness was not measured using an interface probe (ARCADIS 2011). As a result of the measurement of the LNAPL at well MW-11D, in a letter dated June 21, 2012 the ACEH requested an additional investigation to assess the vertical extent of the LNAPL and the properties of the LNAPL.

2.3.2.LNAPL Investigation

From December 2012 through January 2013, ARCADIS conducted a series of investigations to determine the characteristics of the LNAPL in MW-11D, including a bail down test to determine the transmissivity of the LNAPL, characterization of a sample of the LNAPL, and a cone penetrometer test/laser induced fluorescence (CPT/LIF) investigation to determine the vertical extent of the LNAPL in the vicinity of monitoring well MW-11D (ARCADIS 2013). The results of these activities suggested the nature of the LNAPL is a highly-weathered diesel with limited transmissivity (i.e., not mobile). Based on the high degree of microbial degradation identified within the LNAPL, it was concluded that the original release of LNAPL occurred in the distant past. The anticipated source of the LNAPL is the former USTs; there is no indication that there is an ongoing source of LNAPL at the Site. The mass of residual LNAPL remaining in the subsurface is expected to decrease with time and remain within the area it currently occupies; the residual LNAPL within the subsurface is likely immobile based on its age and the results of the bail down test. Therefore, it is not anticipated that the LNAPL will move laterally within the subsurface to impact other areas of the Site.

The results of the LIF investigation indicate the vertical extent of potentially petroleum-impacted soil within this area is approximately 18 feet thick. The screen interval of monitoring well MW-11D lies within this vertical interval; therefore, it is not anticipated that LNAPL within MW-11D will move vertically to impact a new area. The integrity of monitoring well MW-11D remains intact so further migration of LNAPL through cracks or other imperfections in the well construction of MW-11D is not anticipated.



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3. Summary of Human Health Risks

The following is a summary of the potential human health risks associated with the residual petroleum concentrations in the vadose zone soil, soil gas, and groundwater at the Site. There are several potential exposure pathways (LFR 2007a). These include ingestion, inhalation, or dermal contact with soil; inhalation of ambient air; and ingestion, inhalation, or dermal contact with groundwater. For a potential exposure pathway to be considered a complete exposure pathway there must be a source of chemical concentrations above thresholds for risk to human health, a media through which contamination moves, and a receptor that comes into contact with the media.

The former USTs and historical operations have resulted in residual concentrations of petroleum constituents in three media: soil, soil gas, and groundwater. Potential receptors include Site workers and Site visitors, including contractors. Based on current routine Site activities, there are no completed pathways for a Site worker or visitor in the area outlined in Figure 2 to contact with any of the media identified above. For human receptors involved in construction activities involving soil removal, there are no complete pathways for contaminated groundwater and soil gas but potentially completed pathways for contaminated soil. Section 5 of this SMP identifies management protocols to minimize potential exposure.

3.1. Soil

Petroleum-affected vadose zone soil is generally located in the vicinity of the former USTs and asphalt plant (Figure 6). During historical investigation activities, petroleum-related constituents were detected in soil samples collected within the vadose zone (taken as the top 5 feet of soil) at concentrations ranging from 0.0043 mg/kg benzene at the soil boring associated with monitoring wells MW-5S and MW-5D to 1,400 mg/kg TPHd at soil boring TB-6. These values represent the highest concentrations of petroleum constituents detected within the top 5 feet of soil. Many of these detected values were above the applicable 2013 Tier 1 Environmental Screening Levels (ESLs) put forth by the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) for commercial land use soils that are less than 3 meters bgs in an area where the groundwater is considered a current or potential drinking water source.

Potential exposure pathways for Site workers and Site visitors or contractors to shallow soil contamination include ingestion, inhalation, or dermal contact of affected media. Based on routine Site operations and the institutional controls described in Section 4 below, these potential exposure pathways are not anticipated to be completed. Section



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4 and Section 5 of this SMP detail the actions to be taken to eliminate human exposure to petroleum-related constituents in soil while performing routine and infrequent subsurface activities at the Site.

3.2. Soil Gas

Based on the analytical results for soil gas samples collected between February 2008 and December 2010 (LFR 2010), historical concentrations of petroleum constituents in soil gas ranged from 6 micrograms per cubic meter (μ g/m³) of toluene in SG-3 to 550,000 μ g/m³ of gasoline-range total petroleum hydrocarbons (TPHg) in samples collected from soil gas point SG-4. These concentrations were detected during the air injection pilot study, as well as during operation of the full air injection system. There were no soil gas concentrations detected above the applicable 2013 Tier 1 ESLs to screen for vapor intrusion concerns for commercial/industrial land use (Table 2). The protocols detailed in Section 4 and Section 5 for management of affected soil are also designed to detect and eliminate human exposure to petroleum-related constituents in soil gas while performing routine and infrequent subsurface activities at the Site.

3.3. Groundwater

Petroleum-affected groundwater is generally located in the vicinity of the former USTs (Figures 7 through 9). The horizontal extent of groundwater impacts varies with vertical depth, with the largest extent within the deeper aquifer zone and the smallest extent within the Livermore Formation. TPHg detected in groundwater samples collected in September 2010 ranged from 50 micrograms per liter (μ g/L) at monitoring well MW-2D to 13,000 μ g/L at monitoring well MW-7D (see Figure 8). Similarly, TPHd detected in groundwater samples collected in the most recent groundwater sampling event (September 2010) ranged from 51 μ g/L at monitoring well MW-5D to 47,000 μ g/L at monitoring well MW-11D (see Figure 8). Lastly, methyl-tert-butyl ether (MTBE) detected in groundwater samples collected in September 2010 ranged from 0.61 μ g/L at monitoring well MW-12LF to 110 μ g/L at monitoring well MW-11LF. Many of these groundwater concentrations of TPHg, TPHd, and MTBE were detected above the applicable Tier 1 ESLs for groundwater that is a current or potential drinking water source. These ESLs for TPHg, TPHd, and MTBE are 100 μ g/L, 100 μ g/L, and 5 μ g/L, respectively.

Potential exposure pathways for Site workers and Site visitors or contractors include ingestion, inhalation, or dermal contact of the affected groundwater. Based on the current land use, routine Site operations, current water supply sources, and the



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institutional controls described below, these potential exposure pathways are not considered complete. Section 4 and Section 5 of this SMP detail the actions to be taken to eliminate human exposure to petroleum-related constituents in groundwater when performing routine and infrequent subsurface activities. The extent of impacted groundwater has been demonstrated to be stable in size and is anticipated to remain within the area identified in Figure 2.

4. Summary of Institutional Controls

Institutional controls include administrative and legal controls to limit human contact with residual contamination in soil and groundwater remaining within the area identified on Figure 2. As requested by the ACEH, a Covenant and Environmental Restriction on Property (Covenant) is required for the remaining impacted soil and groundwater identified on Figure 2. This Covenant will limit the land use at the area identified in Figure 2 to industrial, commercial, or office space. While agricultural use of the land will be limited by the Covenant, use of the land for cattle grazing, or other livestock grazing, is permitted. This is due to the limited root depth necessary for grass growth and the associated limited human interaction with the impacted soils. No residence or human habitation, hospital, school for persons under 21 years of age, day care centers for children or seniors, or gardening will be permitted under the Covenant.

The Covenant will also restrict the use of groundwater at the Site. Groundwater at the Site will not be developed as a drinking water source. Due to the nature of mining operations, provision for use of groundwater at the Site for industrial purposes will be allowed. However, use of groundwater for industrial purposes will not be allowed within 1,000 feet in any direction from the area of identified on Figure 2. If an industrial groundwater supply well is installed at the Site, the horizontal and vertical location of the groundwater extraction point will be situated so as not to capture petroleum-affected groundwater from the impacted area. For example, a future industrial groundwater supply well may be located hydraulically upgradient from the identified impacted area, screened at a depth below the documented petroleum impacts, or located on a different portion of the Site where the extraction radius of influence will not capture the impacted groundwater.

Additionally, any disturbance to soil or groundwater within the area illustrated on Figure 2 shall be made known to the ACEH and performed in accordance with the requirements set forth in this SMP. The existence of, and content of, this SMP will be included in the Covenant in an effort to communicate the information contained herein



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to those individuals who may perform subsurface activities that will encounter residual contamination.

5. Soil and Groundwater Site Management Plan

The following specifies the general procedures for handling, moving, storing, and reusing or disposing of soil and groundwater that may be encountered during routine or infrequent subsurface activities conducted at the Site within the area illustrated on Figure 2. Activities that may cause soil or groundwater disturbance at the Site include, but are not limited to, the following:

- grading,
- removing/installing underground utilities and utility pipeline repair activities,
- · installing foundations,
- mining operations,
- and performing other construction activities.

5.1. Notification Requirements

Prior to the commencement of subsurface activities listed above that are proposed to take place within the area illustrated on Figure 2, a work plan detailing the scope of the activities and compliance with this SMP will be prepared and submitted to the ACEH for review and approval. After approval is obtained from ACEH the subsurface activities at the Site may be initiated.

5.2. Health and Safety Requirements

Subsurface activities that may involve contact with impacted soil or groundwater at the Site within the area illustrated on Figure 2 are subject to the provisions specified in this SMP. Personnel at the Site who handle, or have the potential to come in contact with, potentially contaminated soil or groundwater shall have the appropriate health and safety training and wear the appropriate personal protective equipment.

Subsurface activities conducted at the Site within the area illustrated on Figure 2 must be in compliance with applicable rules and regulations governed by the California



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Division of Occupational Safety and Health (Cal/OSHA), even if not expressly noted in this SMP. A project-specific health and safety plan shall be prepared prior to initiating subsurface construction work at the Site.

5.3. Groundwater Use Controls

Residual concentrations of petroleum-related compounds remain within the groundwater at the Site. Based on Figures 7 through 9, remaining concentrations are present at various magnitudes at different depths. During current operations, Site workers or contractors are not expected to encounter impacted groundwater. Additional groundwater use controls will be implemented to limit potential human exposure to impacted groundwater. Specifically, the Covenant will explicitly state that groundwater within the area identified on Figure 2 will not be developed for human consumption. This will adequately eliminate the potential for human ingestion of groundwater, as well as dermal contact and inhalation of vapors from groundwater.

Current water usage at the facility is primarily for dust control and aggregate washing. The water is comprised primarily of recycled wash water and collected storm water run-off. As needed, the recycled water system is supplemented with water pumped from containment ponds approximately 2,200 feet north of the area outlined in Figure 2.

Should Hanson want to install a water supply well for industrial/mining uses at the Site the following parameters regarding the location and depth of the well would be required:

- The well will be located a minimum of approximately 1,000 feet away (in all directions) from the perimeter of the area illustrated on Figure 2.
- The minimum depth of the seal of an industrial water supply well must be located 50 feet bgs per the guidance from the Department of Water Resources California Well Standards.

5.4. Potential Future Mining Development

Per the nature of mining operations at the facility, there is the potential to mine the area illustrated on Figure 2 in the future. In the event that the entirety of the area identified in Figure 2, or any part of that area, becomes part of mining operations that result in the excavation of subsurface materials (soil or groundwater), the procedures in Section



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5.5. will be followed to limit the potential for Site workers to be exposed to petroleum constituents as well as to determine appropriate handling and disposal methods.

5.5. Soil and Groundwater Management During Subsurface Activities

Subsurface activities that may occur at the Site within the impacted area identified in Figure 2 include soil or groundwater removal as part of potential future mining operations, and infrequent subsurface intrusions, such as accessing underground utilities. The soil and groundwater management protocols detailed in this section will be followed during these types of subsurface activities, but are not needed during current routine mining operations that are being conducted in other areas of the facility beyond the area shown on Figure 2. The protocols described herein may be modified as appropriate if additional site characterization is performed prior to initiation of potential future mining operations or subsurface intrusions.

5.5.1.Soil Management Procedures

Within the area shown on Figure 2, excavated soil will be inspected for visual/olfactory evidence of impacts. If potentially-impacted soil (e.g., soil exhibiting discoloration, oily liquids, a petroleum odor, or other signs of contamination from petroleum fuels) is observed, the following actions shall be taken:

- Stockpile potentially-impacted soil separately on polyethylene sheeting and in accordance with this SMP;
- Screen the stockpiled potentially-impacted soil with a photoionization detector (PID), if appropriate;
- Characterize the stockpiled soils as specified below, and appropriately dispose of stockpiled soil at an appropriately licensed facility or suitable end use (e.g., reuse on a portion of the facility); and,
- Document and report the discovery of the apparently impacted soil as required to the appropriate jurisdictional agency.

Potentially-impacted soil generated from excavation activities will be stockpiled on-site. The stockpiles will be placed on, and covered with, polyethylene sheeting to provide separation and to prevent off-site soil migration due to wind and water erosion. In addition, a berm made of hay bales or another accepted material will be placed around each stockpile to limit potential runoff from the stockpile.



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Dust control measures will be used during excavation activities such that no visible dust migration is observed. Typically, misting with water can be used to control dust emissions. Mitigation procedures to prevent wind erosion of an active stockpile will include applying sufficient water, or other accepted material, to keep the soil slightly damp, but not so much water to create runoff from oversaturation. Stockpiles will not be piled excessively high to further prevent airborne transport of stockpiled material.

Should odor issues be identified by Site workers or contractors during subsurface activities, personnel shall have appropriate health and safety training, wear the appropriate personal protective equipment, and field instruments shall be used to screen for the presence of VOCs within the breathing zone as appropriate. Should the detected concentrations of specific VOCs identified as part of a health and safety plan exceed the identified action levels, subsurface activities will be stopped and the mitigation measures identified within the health and safety plan will be performed.

Soils will be adequately sampled and characterized/profiled per the disposal facility requirements in the event that off-site disposal is selected as the method of final disposition of the soils. These typically conform to the sampling frequencies provided in the California Department of Toxic Substances Control (DTSC) *Information Advisory – Clean Import Fill Material* (DTSC 2001) as follows:

- Up to 1,000 cubic yards one (1) sample per 250 cubic yards
- 1,000 to 5,000 cubic yards four (4) samples for the first 1,000 cubic yards plus one (1) sample for each additional 500 cubic yards
- Greater than 5,000 cubic yards 12 samples for the first 5,000 cubic yards plus one (1) sample for each additional 1,000 cubic yards

Soils identified for transportation and off-site disposal should be profiled, either in-place or from the stockpile.

5.5.2. Groundwater Management Procedures

If groundwater is encountered during subsurface activities, or if dewatering is necessary, the following procedures should be followed. Field instruments shall be used to screen for the presence of volatile organic compounds (VOCs) within the breathing zone of Site workers and contractors. Groundwater produced during dewatering activities may be treated to remove sediment and/or dissolved fuel



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hydrocarbons and related constituents and discharged to a sanitary sewer in accordance with applicable permits from the appropriate regulatory agencies. Alternatively, groundwater may be collected, removed from the Site, and disposed of appropriately. Both potential means of disposal may require collection and analysis of the groundwater for petroleum-related constituents to ensure compliance with the applicable permits. Groundwater shall not be used for dust control, either during routine operations or infrequent activities, unless groundwater analyses indicate concentrations of petroleum-related constituents are below analytical laboratory reporting limits.

5.6. Contingency Plan

This section describes the protocols to be followed in the event that unknown areas of affected soil, groundwater and/or underground structures are identified at the facility. These protocols will be followed by all involved parties, including Hanson and other entities, such as a contractor or qualified consultant, designated or certified by Hanson.

Unknown conditions (e.g., suspected affected soil) that may trigger contingency monitoring procedures during Site activities include, but are not limited to, those listed below. Discovery of any of these conditions could require either alternative or additional measures to protect human health and the environment:

- Oily, shiny, or saturated soil or free product;
- Soil with a strong chemical odor;
- Discovery of objects of environmental concern such as USTs and associated piping or buried drums;
- Discovery of potentially-hazardous debris (e.g., automobile tires, asbestoscontaining pipes, and transite pipes);
- Discovery of hazardous storage areas; and
- Other conditions that vary materially from those documented during previous investigations.

If suspected affected soil is detected during subsurface activities, the following procedures shall be followed:



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- All field activities that may potentially disturb the suspected affected soil must be immediately stopped and the area around the suspected affect soil vacated.
- If an emergency situation arises such that emergency services are needed, call 911 and follow the emergency procedures given in the health and safety plan, including notification of the appropriate Hanson employees.
- Any equipment and clothing that comes in contact with the suspected or known affected soil must be decontaminated as specified in the health and safety plan.
- If stockpiling is necessary, stockpiles will be placed on polyethylene sheeting and covered at the end of each work day.

During the subsurface activities conducted at the Site, it is possible that USTs, sumps, or other underground structures that were not identified during previous investigations will be discovered. For example, a UST may be unearthed during grading and site excavation. Other subsurface structures might not have features that extend above the excavated surface and could be unearthed when construction equipment comes into contact with them. The remainder of this section outlines the measures that govern identification and removal of USTs, and appropriate measures for addressing other underground structures encountered during development.

Chapter 6.7 of the California Health and Safety Code contains the specific requirements for removing and remediating affected soil associated with a leaking UST (LUST). The county within which the UST is encountered is responsible for local oversight and oversees the removal of USTs. Environmental investigations and responses required following removal of the UST will be conducted under the direction of the ACEH and in accordance with the specific provisions delineated in Chapter 6.7 of the California Health and Safety Code. Additionally, the Alameda County Fire Department will be notified in the event that a LUST or appurtenant piping is discovered at the Site.

For other subsurface structures that may have been related to former use and storage of chemicals, such as underground vaults and sumps, the following procedures will be implemented to determine the proper disposition of the encountered structure.

The structure will be inspected to assess whether it contains any indication of chemical residuals or free liquids, other than water. A qualified individual will make this assessment in the field using visual or olfactory evidence, or field monitoring



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equipment (e.g., PID). If there is no indication, based on visual observation, odor, or field air monitoring equipment, of chemical impact within the vault or sump, then removal of the structure is not necessary for environmental reasons, but may be prudent for other reasons.

If a sump or vault contains liquids that appear to contain chemicals, based on visual observations, odor, or field air monitoring equipment, then the following steps shall be taken:

- The potentially chemical-containing liquids will be sampled and analyzed for profiling purposes.
- The chemical will be characterized and the appropriate response action will be determined. If appropriate, the liquids will be properly removed and disposed.
- A report will be prepared documenting response activities for submittal to the Alameda County Fire Department and ACEH.

If LNAPL is encountered, the horizontal and vertical extent will be assessed, the chemical characterized, and the soil managed in a manner approved by ACEH.

5.7. Record Keeping, Inspections, and Reporting

Record keeping and inspection procedures to monitor compliance with this SMP shall be the responsibility of the party performing the work (i.e., Hanson or contractors). During intrusive subsurface work in the area identified in Figure 2 in which there is potential exposure to contaminated soil, soil vapor and/or groundwater, a daily log will be maintained to provide detailed documentation of work activities until potential contamination is removed or contained.

Additionally, Hanson will perform an annual inspection of the Site to ensure compliance with this SMP. The items to be inspected will be developed by Hanson as part of their existing inspection processes. The results of the annual inspection will be communicated via letter to the ACEH. At this time, any upcoming plans for land use or operational changes that may initiate the protocols set forth herein will also be communicated to the ACEH.



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5.8. Soil and Groundwater Site Management Plan Availability

The location of affected soil and groundwater remaining at the Site will be communicated to Site workers and contractors through this SMP. The existence of this SMP will be documented as part of a Covenant to be recorded with the deed for the property. Additionally, this SMP will be provided to the current property owner for distribution to Site workers or contractors performing intrusive subsurface work.



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6. References

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Soil and Groundwater Site Management Plan



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- Tank Protect Engineering of Northern California Inc., May 13, 1997, Preliminary Site Assessment Report, Mission Valley Rock Company, 7999 Athenour Way, Sunol, California 94586.



Tables

Table 1
Groundwater Monitoring Well Details
Hanson Aggregates
7999 Athenour Way, Sunol, California

WELL ID#	NORTHING (FT.) / LATITUDE (D.MS)	EASTING (FT.) / LONGITUDE (D.MS)	ELEVATION (FT.)	DESCRIPTION
MW-1	2033631.2	6162569.3	258.68	PVC
	37.5718715	-121.8771414	259.03	Box
MW-2S	2033560.2	6162561.6	258.84	PVC
	37.5716762	-121.8771643	259.09	Box
MW-2M	2033560.2	6162561.6	258.99	PVC
	37.5716762	-121.8771643	259.09	Box
MW-2D	2033560.2	6162561.6	258.91	PVC
	37.5716762	-121.8771643	259.09	Box
MW-3	2033545.9	6162615.1	259.08	PVC
	37.5716392	-121.8769792	259.64	Box
MW-4S	2033585.5	6162653.7	259.14	PVC
	37.5717493	-121.8768479	259.57	Вох
MW-4D	2033585.5	6162653.7	259.22	PVC
	37.5717493	-121.8768479	259.57	Вох
MW-5S	2033577.7	6162610.5	259.43	PVC
	37.5717264	-121.8769967	259.78	Вох
MW-5D	2033577.7	6162610.5	259.40	PVC
	37.5717264	-121.8769967	259.78	Вох
MW-6S	2033559.6	6162581.5	258.75	PVC
	37.5716753	-121.8770956	259.62	Вох
MW-6D	2033559.6	6162581.5	259.27	PVC
	37.5716753	-121.8770956	259.62	Вох
MW-7S	2033611.9	6162537.7	258.82	PVC
	37.5718173	-121.8772494	259.09	Вох
MW-7D	2033611.9	6162537.7	258.07	PVC
	37.5718173	-121.8772494	259.09	Вох
MW-8	2033607.6	6162516.9	258.84	PVC
	37.5718047	-121.8773211	259.40	Box
MW-9S	2033664.2	6162537.6	258.41	TOP 2" PVC N. SIDE
	37.341905897	-121.523810911	259.12	LID
			258.82	GROUND
MW-9D	2033657.0	6162535.6	258.86	TOP 2" PVC N. SIDE
	37.341898750	-121.523813263	259.21	LID
			258.92	GROUND
MW-9LF	2033650.0	6162534.0	258.94	TOP 2" PVC N. SIDE
	37.341891807	-121.523815123	259.20	LID
			258.94	GROUND
MW-10S	2033614.1	6162622.3	260.67	TOP 2" PVC N. SIDE
	37.341857601	-121.523704793	261.01	LID

DATE: 4/24/2013 1 OF 2

Table 1 Groundwater Monitoring Well Details Hanson Aggregates 7999 Athenour Way, Sunol, California

WELL ID#	NORTHING (FT.) / LATITUDE (D.MS)	EASTING (FT.) / LONGITUDE (D.MS)	ELEVATION (FT.)	DESCRIPTION				
			260.63	GROUND				
MW-10D	2033619.6	6162621.8	260.64	TOP 2" PVC N. SIDE				
	37.341863031	-121.523705515	261.34	LID				
			261.08	GROUND				
MW-10LF	2033615.6	6162638.9	260.58	TOP 2" PVC N. SIDE				
	37.341859325	-121.523684203	261.02	LID				
			259.59	GROUND				
MW-11S	2033488.3	6162571.1	258.96	TOP 2" PVC N. SIDE				
	37.341732489	-121.523766087	259.33	LID				
			258.87	GROUND				
MW-11D	2033493.5	6162569.1	258.98	TOP 2" PVC N. SIDE				
	37.341737601	-121.523768666	259.27	LID				
			258.93	GROUND				
MW-11LF	2033488.0	6162566.0	259.01	TOP 2" PVC N. SIDE				
	37.341732119	-121.523772416	259.32	LID				
			258.97	GROUND				
MW-12S	2033494.7	6162438.2	262.69	TOP 2" PVC N. SIDE				
	37.341736883	-121.523931272	263.17	LID				
			262.93	GROUND				
MW-12D	2033498.8	6162439.1	262.70	TOP 2" PVC N. SIDE				
	37.341740949	-121.523930229	262.23	LID				
			262.86	GROUND				
MW-12LF	2033504.3	6162441.4	262.90	TOP 2" PVC N. SIDE				
	37.341746420	-121.523927472	263.17	LID				
			262.82	GROUND				

BENCH MARK: MW-6(D) TOP PVC

MORROW SURVEYING PLATE DATED 2-8-05

Elevation =259.27 FEET NAVD88 Datum

HORIZONTAL CONTROL: MW2 AND MW 4 COORDINATES PER LFR

MW-2

NORTHING =2,033,560.2 , EASTING = 6,162,561.6 FEET; EPOCH DATE = 2000.35

MW-4

NORTHING =2,033,585.5 , EASTING = 6,162,653.7 FEET; EPOCH DATE = 2000.35

Coordinate values are based on the California Coordinate System, Zone III NAD 83 Datum.

DATE: 4/24/2013 2 OF 2

Table 2 Historical Soil Gas Analytical Data Hanson Aggregates 7999 Athenour Way, Sunol, California

Soil-Gas Probe ID	SG-	1	S	G-2			S	G-3									
Date Sampled	12/18	/09	12/18/09		2/18/08		2/19/08		12/18/09		2/18/08		2/19/08		12/18/09		
Sample Collection Timing	2 - 4 Hours At Off Air In	3	2 - 4 Hours After Turning Off Air Injection		During Continuous Air Injection Test		One Day After Test Air Injection Ceased		2 - 4 Hours After Turning Off Air Injection		During Continuous Air Injection Test		,	One Day After Test Air Injection Ceased		After Turning njection	Tier 1 ESL
Sample Volume (ml)	1,03	1,037		943		2,015		2,003		1,003		2,000		003	962		
Units	ng	mg/m ³	ng	mg/m³	ng	mg/m ³	ng	mg/m³	ng	mg/m ³	ng	mg/m ³	ng	mg/m ³	ng	mg/m ³	mg/m ³
TPHd	< 1,000	< 960	< 1,000	< 1,100	< 1,000	< 500	< 1,000	< 500	< 1,000	< 1,000	< 1,000	< 500	< 1,000	< 500	< 1,000	< 1,100	1,300,000
TPHg	< 1,000	< 960	< 1,000	< 1,100	150,000	74,000	1,000 J	500 J	480,000 E	480,000 E	1,100,000	550,000	1,400	700	74,000	77,000	3,066,000
Benzene	< 10	< 9.6	< 10	< 11	< 5.0	< 2.5	< 5.0	< 2.5	< 10	< 10	41	21	< 5.0	< 2.5	11	11	420
Toluene	< 5.0	< 4.8	< 5.0	< 5.3	12	6	5.8	2.9	< 5.0	< 5.0	130	65	69	34	< 5.0	< 5.2	1,300,000
Ethylbenzene	< 5.0	< 4.8	< 5.0	< 5.3	21	10	< 5.0	< 2.5	< 5.0	< 5.0	280	140	< 5.0	< 2.5	< 5.0	< 5.2	4,900
m, p-Xylene	< 10	< 9.8	< 10	< 11	26	13	< 10	< 5.0	< 10	< 10	70	35	< 10	< 5.0	< 10	< 11	440,000
o-Xylene	< 5.0	< 4.8	< 5.0	< 5.3	< 5.0	< 2.5	< 5.0	< 2.5	< 5.0	< 5.0	21	11	< 5.0	< 2.5	< 5.0	< 5.2	440,000
Napthalene	< 5.0	< 4.8	< 5.0	< 5.3	< 5.0	< 2.5	< 5.0	< 2.5	< 5.0	< 5.0	< 5.0	< 2.5	< 5.0	< 2.5	< 5.0	< 5.2	360
MTBE	< 50	< 48	< 50	< 53	< 50	< 25	< 50	< 25	< 50	< 50	< 50	< 25	< 50	< 25	< 50	< 52	47,000

Notes:

"<" = analyte not detected at or above the noted laboratory reporting limit

ml = milliliters

ng = nanograms

 $\mu g/m^3 = micrograms per cubic meter$

J = estimated value

TPHg = total petroleum hydrocarbons as gasoline

TPHd = total petroleum hydrocarbons as diesel

MTBE = methyl tertiary-butyl ether

E = Exceeds instrument calibration range

Bolded values are above the 2013 Tier 1 ESL

Tier 1 ESL = Commercial/Industrial 2013 Tier 1 Environmental Screening Levels (ESLs) put forth by the San Francisco Bay Regional Water Quality Control Board



Figures



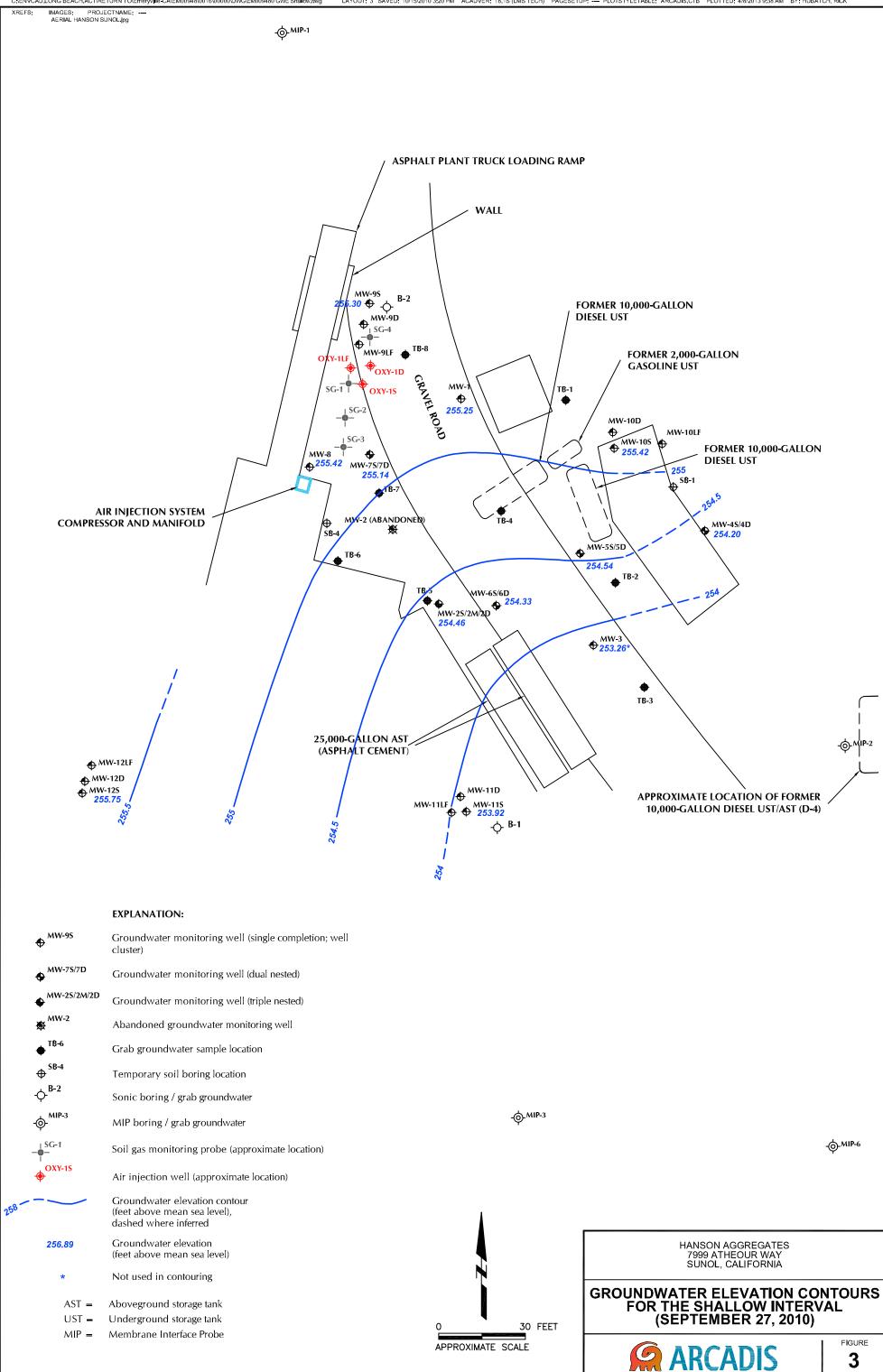
700 1,400 Feet GRAPHIC SCALE

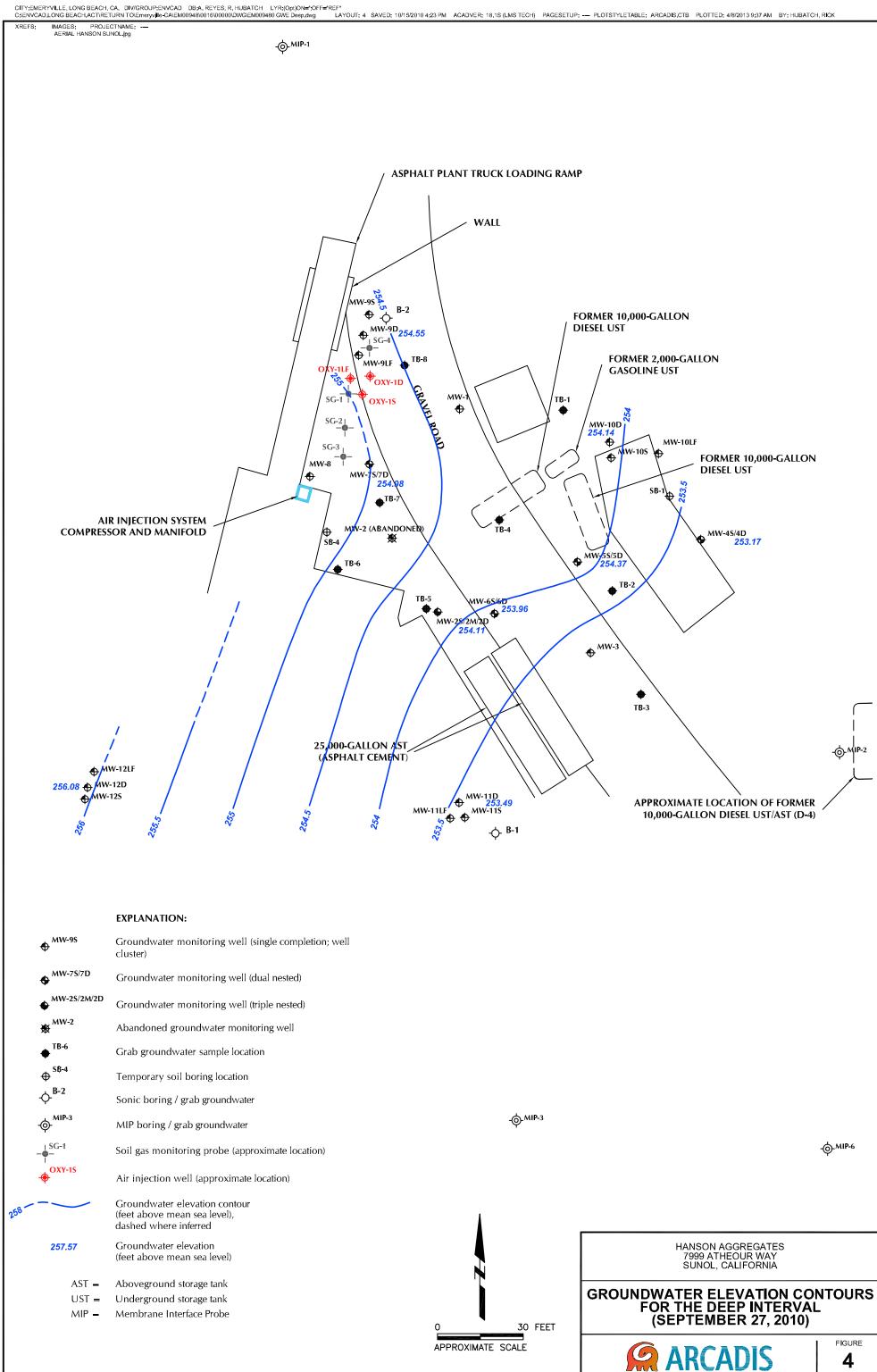
SITE LOCATION MAP

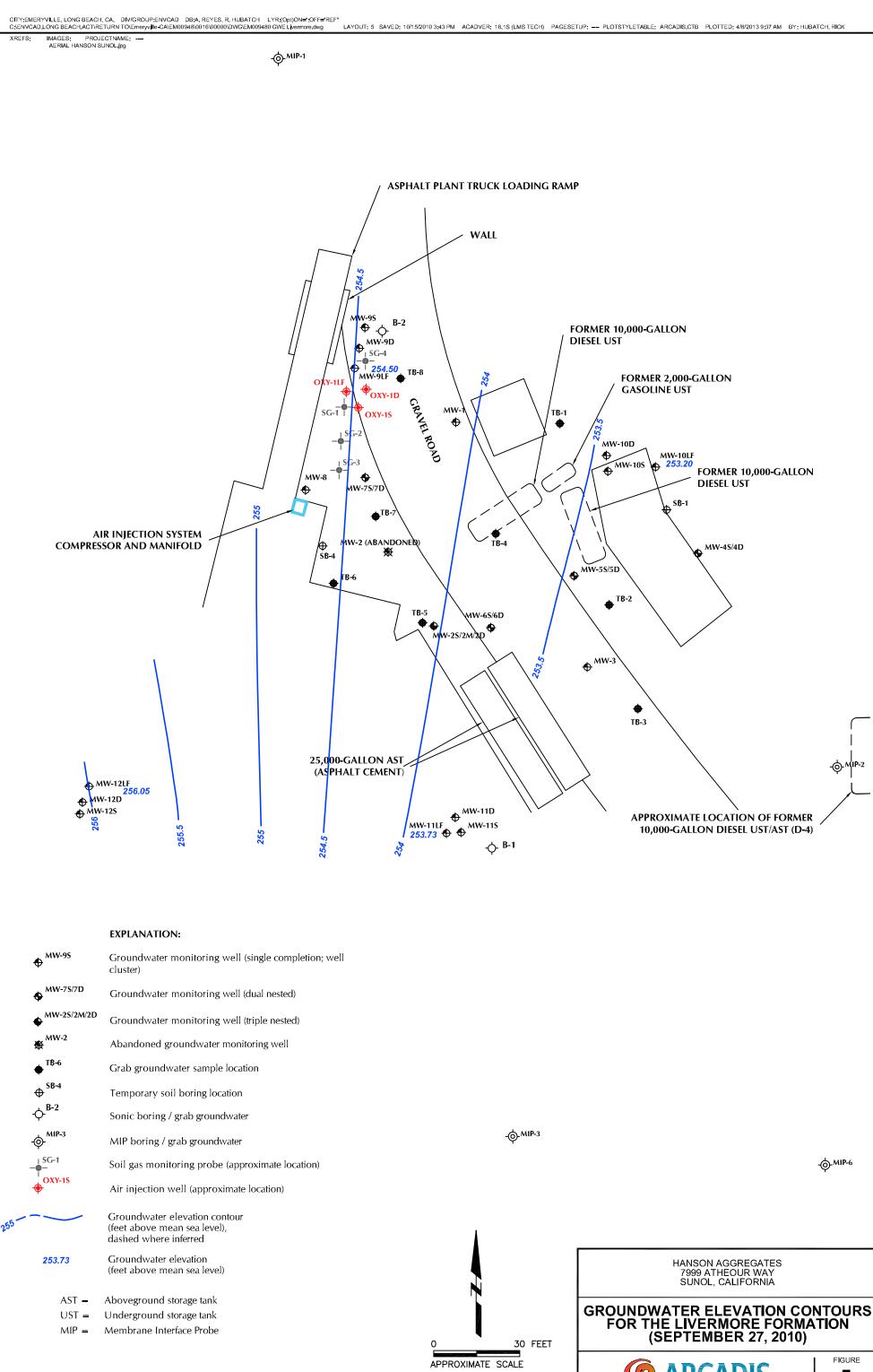


FIGURE



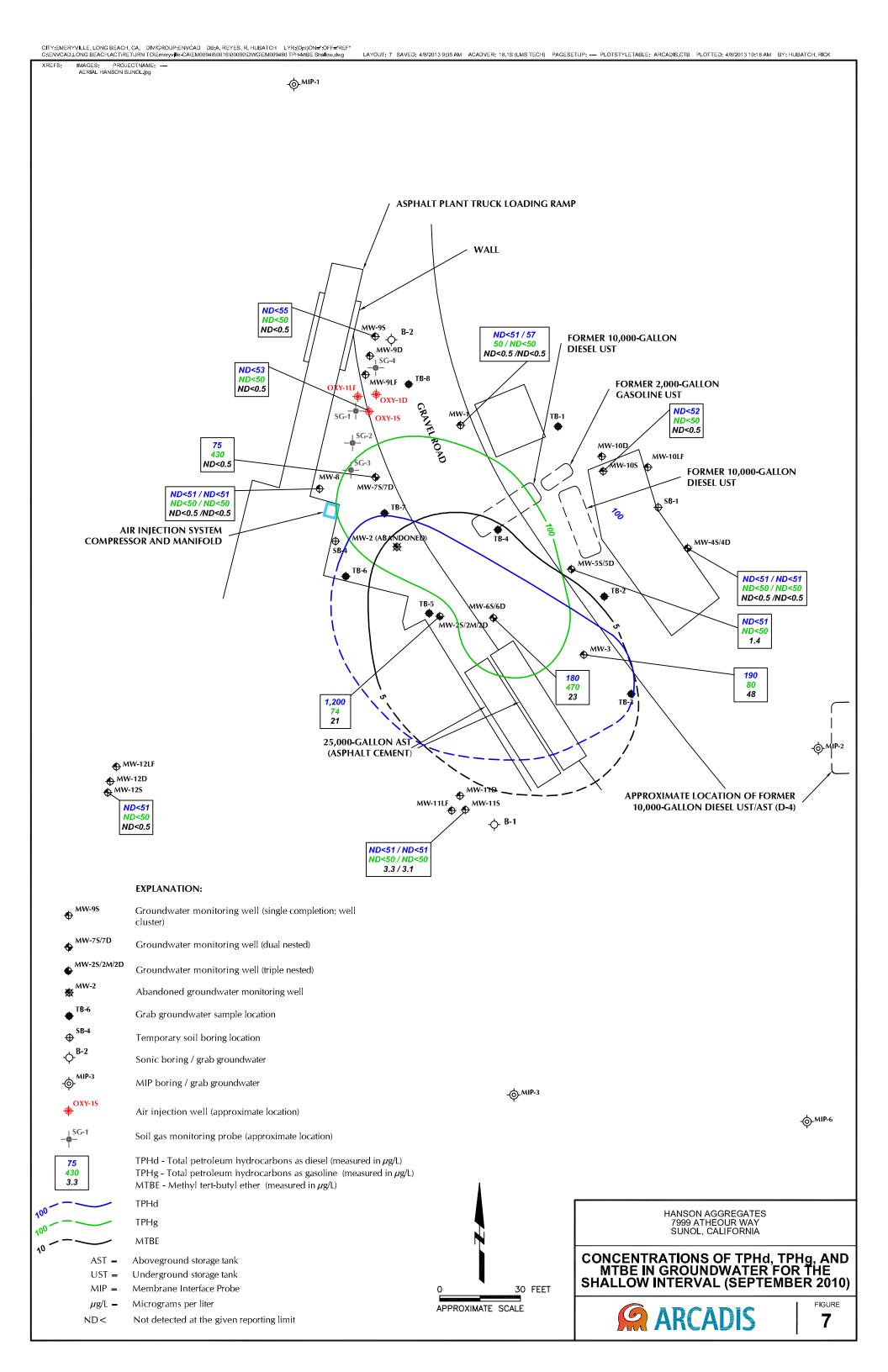












AST =

UST =

MIP -

 μ g/L =

ND<

Aboveground storage tank Underground storage tank

Membrane Interface Probe

Not detected at the given reporting limit

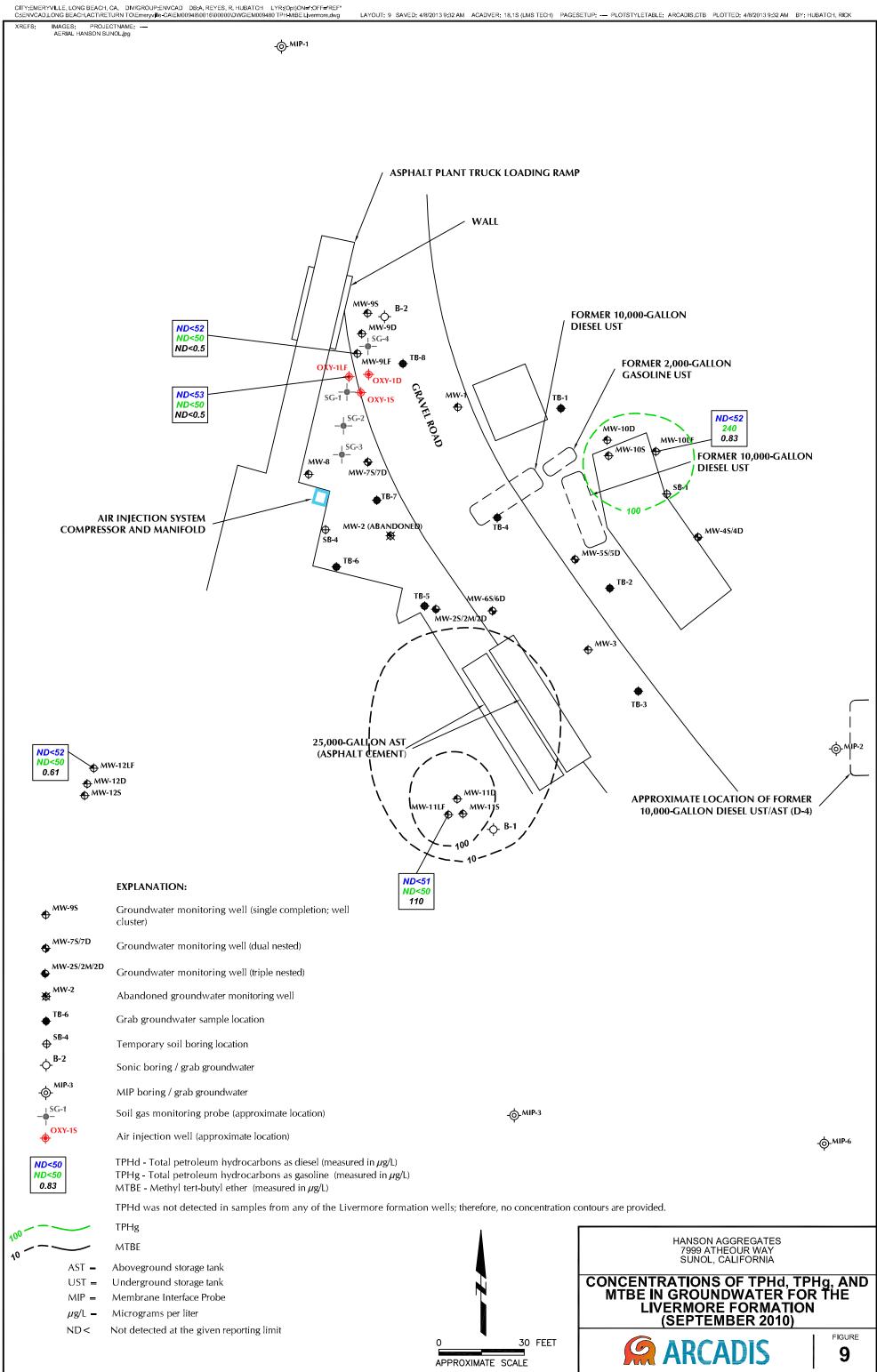
Micrograms per liter

CONCENTRATIONS OF TPHd, TPHg, AND MTBE IN GROUNDWATER FOR THE DEEP INTERVAL (SEPTEMBER 2010) **ARCADIS**

30 FEET

APPROXIMATE SCALE

8





Appendix A

Historical Soil Data

Summary Report Environmental Activities

Mission Valley Rock Company 7999 Athenour Way Sunol, California

Prepared by: Tait Environmental Management, Inc.

May 16, 2006

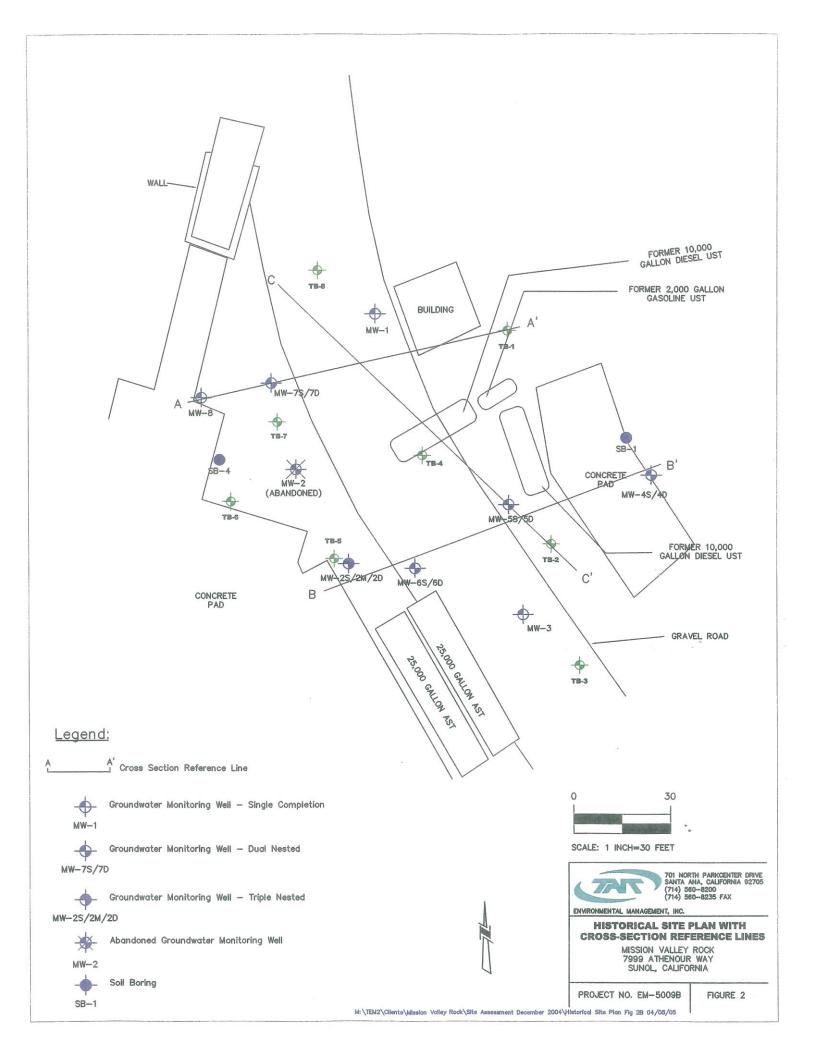


TABLE 5 SOIL ANALYTICAL RESULTS - DECEMBER 2002

MISSION VALLEY ROCK COMPANY 7999 ATHENOUR WAY SUNOL, CALIFORNIA

Sample ID Date S			Gasoline (TPHo	m Hydrocarbons as i) and Diesel (TPHd) mg/kg		Volatile Organic Compounds (VOC's) in ug/kg															Semi-Volatile Organic Compounds (SVOC's) in ug/kg			
	Date Sampled	Sample Depth (ft-bgs)	PHd	ГРН	Acetone	3enzene	n-Butylbenzene	sec-Butylbenzene	ert-Butylbenzene	Ethylbenzene	sopropylbenzene (Cumene)	o-Isopropyltoluene Cymene)	Methylene chloride	Methyl tert-butyl ether	Napthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Xylene & p-Xylene	o-Xylene	2-Methylnapthalene	Napthalene	Phenathrene
TB1-1	12/3/2002	15	45	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB1-2	12/3/2002	20	92	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<820	<820	<820
TB1-3	12/3/2002	25	130	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB1-4	12/3/2002	30.5	10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB2-1	12/3/2002	8	57	93	<120	<25	640	430	<25	44	280	<25	<25	<25	85	1,500	<25	<25	<25	<25	<25	670	<330	<330
TB2-2	12/3/2002	16	10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB2-3	12/3/2002	20	40	110	<120	<25	190	72	48	<25	<25	27	<25	<25	<25	110	<25	<25	<25	<25	<25	<330	<330	<330
TB2-4	12/3/2002	24	<10	<1.0	<25	<5.0	5.8	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.9	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB3-1	12/4/2002	4.5	<10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB3-2	12/4/2002	10	12	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB3-3	12/4/2002	16	<10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB3-4	12/4/2002	20	<10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB3-5	12/4/2002	25	<10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB4-1	12/3/2002	5	960	9.2	<120	<25	130	120	<25	<25	140	<25	<25	73	570	610	<25	<25	<25	<25	<25	<330	<330	330
TB4-2	12/3/2002	10	310	120	<1,200	<250	8,300	3,600	<250	1,300	3,600	<250	<250	<250	8,500	15,000	<250	<250	<250	<250	<250	1,600	<330	590
TB4-3	12/3/2002	15	280	280	<1200	<250	1,100	320	<250	1,300	350	<250	<250	<250	1,200	1,400	<250	4,400	1,400	1,700	450	390	<330	<330
TB4-4	12/3/2002	20	<10	<1.0	30	14	<5.0	<5.0	<5.0	5.8	<5.0	<5.0	<5.0	19	<5.0	<5.0	<5.0	7.6	<5.0	10	<5.0	<330	<330	<330
TB4-5	12/3/2002	25	<10	<1.0	<25	<5.0	6.7	<5.0	<5.0	22	<5.0	<5.0	<5.0	13	9	18	<5.0	61	22	27	5.1	<330	<330	<330
TB5-1	12/4/2002	5	26	<1.0	33	<5.0	29	24	<5.0	<5.0	23	<5.0	<5.0	11	<5.0	92	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB5-2	12/4/2002	10	760	49	<120	<25	470	250	<25	<25	190	<25	<25	<25	550	780	<25	<25	<25	<25	<25	2,000	330	500
TB5-3	12/4/2002	17	1,100	71	<100	<20	120	57	<20	59	51	<20	<20	<20	230	190	<20	280	30	<20	<20	590	<330	360
TB5-4	12/4/2002	20	140	17	<25	<5.0	11	5.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	14	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB5-5 TB6-1	12/4/2002	25 5	210 1,400	52 22	<100 <100	<20	240 200	120	<20	36	65 77	<20	<20 <20	<20 <20	50 390	290 300	<20	<20	<20	<20	<20	<330 410	<330	<330 <330
TB6-2	12/4/2002 12/4/2002	10	740	86	<100	<20 <25	190	150 130	<20 <25	<20 <25	29	<20 <25	<20 <25	<20 <25	43	76	<20 <25	<20 <25	<20 <25	<20 <25	<20 <25	<330	<330 <330	<330
TB6-3	12/4/2002	15	90	<1.0	<25	<5.0	14	8.6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.0	7.8	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB6-4	12/4/2002	20	<10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB6-5	12/4/2002	25	14	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB7-1	12/4/2002	5	890	19	<120	<25	<25	45	<25	<25	<25	<25	<25	<25	<25	31	<25	<25	<25	<25	<25	<330	<330	<330
TB7-1	12/4/2002	10	4,600	140	<1,200	<250	550	420	<250	<250	<250	<250	<250	<250	880	360	<250	<250	<250	<250	<250	3,300	<1,600	<1,600
TB7-3	12/4/2002	15	1,300	36	<25	<5.0	9.1	8.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	15	9.3	5.8	<5.0	<5.0	5.2	<5.0	<330	<330	<330
TB7-4	12/4/2002	20	35	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB7-5	12/4/2002	25	<10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB8-1	12/3/2002	5	<10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB8-2	12/3/2002	10	<10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB8-3	12/3/2002	16	<10	<1.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<330	<330	<330
TB8-4	12/3/2002	20	14	27	<120	<25	160	49	<25	410	78	33	<25	<25	250	350	<25	1,300	390	480	47	<300	<330	<330
TB8-5	12/3/2002	24	<10	25	<25	74	79	28	6.9	320	55	27	<5.0	<5.0	100	190	10	180	52	64	9.5	<300	<330	<330
FP∆ Regi	on 9 Preliminary	Remediation G	nals (PRG's)	mg/kg	1600	0.6	240	220	390	8.9	160		9.1	17	56	240	520	52	21	270	270		56	
Li A Kegi	o o i rominiary		Julio (1 110 a)	ug/kg	1,600,000	600	240,000	220,000	390,000	8,900	160,000		9,100	17,000	56,000	240,000	520,000	52,000	21,000	270,000	270,000		56,000	

Notes:

EPA Regign 9 PRG's are for residential soils 'Direct Contact Exposure Pathways' - October 2002.

Only the compounds detected at or above the labortatory reporting limit are shown.

It-bgs = feet below ground surface
mg/kg = miligrams per kilogram (parts per million)

ug/kg = micrograms per kilogram (parts per billion)

TABLE 6 SOIL ANALYTICAL RESULTS - JANUARY 2005

MISSION VALLEY ROCK 7999 ATHENOUR WAY SUNOL, CALIFORNIA

		Sample Depth (feet bgs)	Constituents (milligrams per killogram)													
Sample ID	Date		TPH-D	TPH-G	Methyl-tert- Butyl Ether	Benzene	Toluene	Ethylbenzene	Total Xylenes	tert-Butanol	Di-isopropyl Ether	Ethyl-tert- Butyl Ether	tert-Amyl Methyl Ether			
MW5-5	1/4/2005	5	ND<10	ND<1	ND<0.005	0.0043	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW5-10	1/4/2005	10	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW5-20	1/4/2005	20	ND<10	ND<1	ND<0.005	0.0038	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW2-5	1/4/2005	5	900	14	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.002	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW2-10	1/4/2005	10	740	15	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW2-15	1/4/2005	15	23	0.96	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW6-10	1/5/2005	10	78	6.8	0.0077	ND<0.005	ND<0.005	0.0044	0.0094	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW6-25	1/5/2005	25	12	1.2	0.024	0.0041	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW4-5	1/5/2005	5	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW4-10	1/5/2005	10	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW4-20	1/5/2005	20	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW2-30	1/5/2005	30	ND<10	ND<1	0.022	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
MW6-25	1/5/2005	25	17	5.4	0.047	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB1-5	1/6/2005	5	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB1-15	1/6/2005	15	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB1-20	1/6/2005	20	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB2-5	1/6/2005	5	ND<10	0.67	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB2-10	1/6/2005	10	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB2-15	1/6/2005	15	ND<10	0.86	ND<0.005	ND<0.005	ND<0.005	0.012	0.0273	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB2-23	1/6/2005	23	16	510	ND<0.005	ND<0.005	ND<0.005	9.7	14.86	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB2-26	1/6/2005	26	39	840	ND<0.005	ND<0.005	ND<0.005	10	16.4	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB3-5	1/6/2005	5	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB3-15	1/6/2005	15	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	0.0049	0.0107	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB3-20	1/6/2005	20	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB3-25	1/6/2005	25	ND<10	0.51	ND<0.005	0.03	ND<0.005	ND<0.005	0.0046	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB4-5	1/6/2005	5	190	42	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB4-10	1/6/2005	10	14	2.7	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB4-15	1/6/2005	15	ND<10	4.5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB4-20	1/6/2005	20	17	2.7	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			
SB4-25	1/6/2005	25	ND<10	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.10	ND<0.050	ND<0.050	ND<0.050			

Notes:

bgs = Below Ground Surface

ND = Not detected at or above the indicated laboratory reporting limit.

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

Concentrations of TPH-D and TPH-G reported using EPA Method No. 8015M.

Concentrations of Methyl-tert-Butyl Ether, Benzene, Toluene, Ethylbenzene, Total Xylenes, tert-Butanol, Di-isopropyl Ether, Ethyl-tert-Butyl Ether, and tert-Amyl Methyl Ether reported using EPA Method No. 8260B.